2026 IEEE 103rd Vehicular Technology Conference (VTC2026-Spring)

June 9-12, 2026
Nice, France



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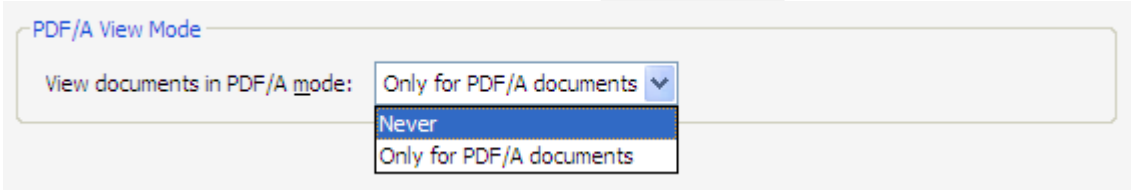
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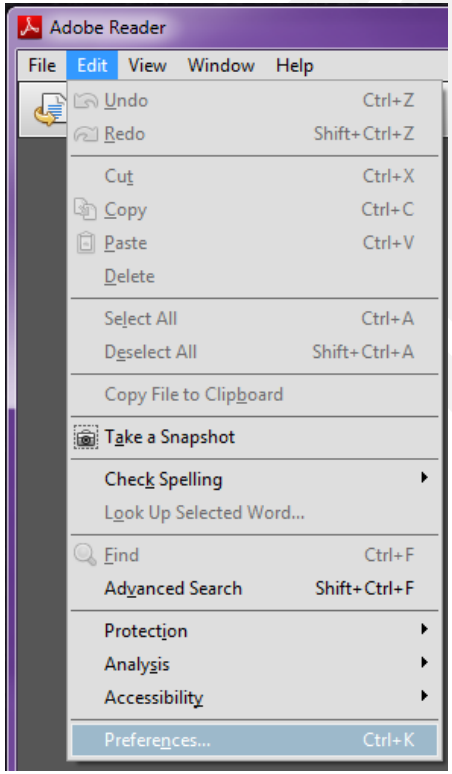
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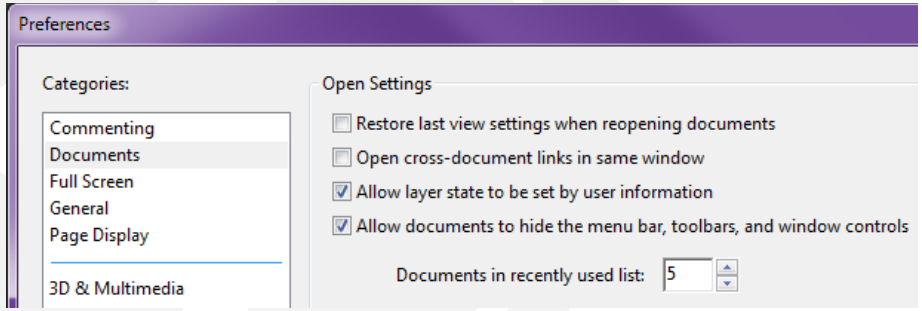
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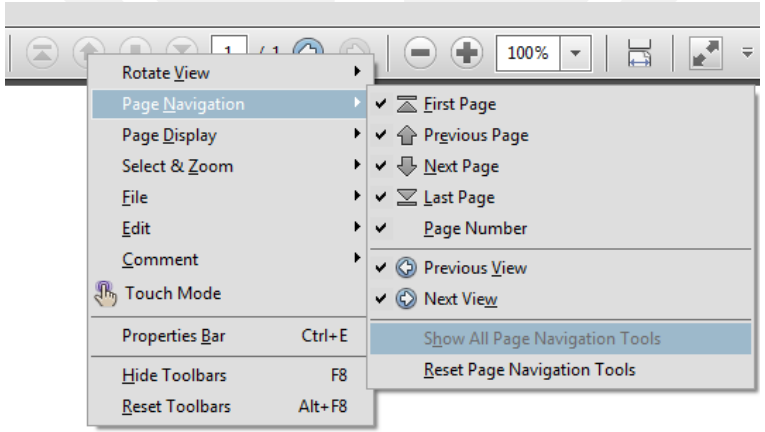
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Conference Information

Welcome from the General Chairs

On behalf of the Organizing Committee, it is our great pleasure to welcome you to the 2026 IEEE 103rd Vehicular Technology Conference (VTC2026-Spring) in Nice, France. The conference venue, the OcéaNice Convention Centre, is conveniently located at the vibrant harbor district of this beautiful city on the French Riviera, and will host the event 9 – 12 June 2026.

Around 350 BC, the Greeks of Marseille founded a permanent settlement and called it Nikaia, after Nike, the goddess of victory. Through the ages, the town has changed hands many times. Its strategic location and port significantly contributed to its maritime strength. Dominion of the Count of Provence, Nice became a dominion of the House of Savoy in 1338, returning to France between 1792 and 1815, then back to the House of Piedmont-Sardinia until its re-annexation by France in 1860.

The natural beauty and mild Mediterranean climate of the Nice area came to the attention of the English upper classes in the second half of the 18th century; the city's main seaside promenade, the Promenade des Anglais (“the Walkway of the English”) owes its name to those early resort visitors. Since then, the picturesque Nicean surroundings have attracted not only those in search of relaxation, but also those seeking inspiration. The clear air and soft light have been of particular appeal to some of Western culture's most outstanding painters, such as Marc Chagall, Henri Matisse, Niki de Saint Phalle and Arman. Their work is commemorated in many of the city's museums, including the Musée Marc Chagall, Musée Matisse and Musée des Beaux-Arts.

VTC2026-Spring is co-organized by EURECOM, located in Sophia Antipolis, a technology park named after Sophie, the wife of former French Senator and founder of the park Pierre Laffitte. The park is home to companies primarily in the fields of computing, telecommunications, electronics, and, more recently, AI; and hosts the European Telecommunications Standards Institute (ETSI).

VTC is one of the oldest wireless communications conferences, having contributed to the spectacular growth of the communications industry over the past five wireless generations. As a technology-developing community, we succeeded in turning the world into a global village, and created a global infrastructure that facilitates communications for all and fuels global business.

We are indebted to the entire Technical Program Committee, especially TPC Co-chairs Dirk Slock, Kaibin Huang, and Alexander Wyglinski.



Conference Information

Our sincere thanks also go out to the entire executive committee for their generosity with their precious research-time invested in making the conference a success. We are particularly grateful to Finance Chair J. R. Cruz; Conference Managers Rodney C. Keele and Cerry Leffler; Publications Chair James Irvine; Tutorials Co-chairs Arun Padakandla, Emilio Calvanese Strinati, and Ion Turcanu; Workshops Co-chairs Alexey Vinel, Luhan Wang, and Beatriz Soret; Publicity Co-chairs Roberto Morabito, Laura Thor, Chenyuan Feng, and Eirini Eleni Tsiropoulou; Visa Support Chair Ali Nadar; and Local Arrangements Co-chairs Omid Esrafillian, Lise Cudin, and Marie Redureau.

Many thanks also to the Track Chairs for 'oiling the wheels' every step of the way, especially considering the significant number of submissions received. We are all grateful to our valued colleagues in the TPC and the research community at large for securing timely reviews!

We convey the community's gratitude to conference patrons Huawei and Qualcomm, as well as to countless further volunteers that contributed to the success of the conference.

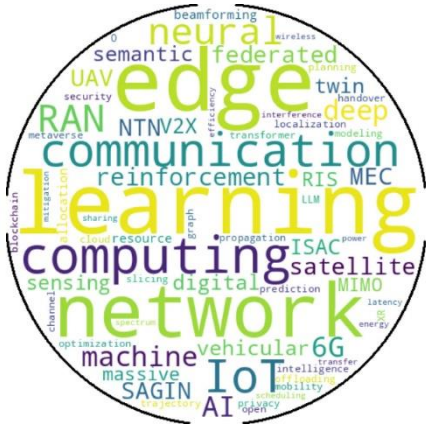


Figure 1 Word cloud

On a technical note, following the gradual roll-out of the 5G system, research is now well under way towards the definition of next-generation standards with the goal of maintaining the current momentum of increasing the achievable performance. In the past, each consecutive decade saw a factor of ten bitrate improvement. But, these orders of magnitude throughput improvements were achieved at the cost of substantially increased power consumption. Escalating energy prices motivated the design of *green radios*, aiming for more power-efficient designs. However, it is widely recognized that there is a clear trade-off between bandwidth- and power-efficiency. Hence the single-component optimization era is over, and next-generation systems are expected to consider multi-component joint Pareto-optimization of the power- and bandwidth-efficiency, the delay and the complexity, to name just a few of the metrics.

All in all, it is an exciting era for our community—please join the debate on Wireless Futures and the rich set of potential enabling techniques shown at a glance in the word cloud in Figure 1.



Conference Information

Our hope is that you, dear Colleagues, will enjoy the technical discussions, meet old friends and forge new professional links; and that you will also sample the local culture and history. We look forward to an enlightening and enjoyable event with you!

Jérôme Härri, Yaser Fallah, and Lajos Hanzo
General Co-chairs, IEEE VTC2026-Spring



Conference Information

Welcome from the Technical Program Chairs

On behalf of the Technical Program Committee, we are pleased to welcome you to the 2026 IEEE 103rd Vehicular Technology Conference (VTC2026-Spring). This edition features a vibrant and diverse technical program, covering recent advances in wireless systems and networks, connected and autonomous vehicles, as well as emerging developments in the vehicular and wireless testbeds, as well as open, virtual, and interoperable networks and services—along with many other topics shaping the future of our field.

VTC2026-Spring received 1217 submissions across the main conference, recent results, and workshops; of which 650 papers were accepted: 496 for the main conference and 154 for workshops. The IEEE VTC2026-Spring technical program is composed of 14 technical tracks and the recent results track, 22 workshops, 5 focused tutorials, 4 distinguished keynote speakers, and 4 outstanding panels. These panels will address key emerging areas such as UAV, Urban Air Mobility, Sustainability in 6G, offering valuable perspectives on the future of wireless and vehicular technologies.

We would like to take this opportunity to express our gratitude to all track co-chairs, as well as to all technical program committee members for their outstanding contributions. 1359 people completed one or more reviews within a limited timeframe, ensuring a smooth and efficient decision-making process. We also sincerely thank the workshop organizers for proposing highly relevant topics, and for managing the review process in a professional and effective manner.

Our sincere thanks go to the organizing and technical program committees for their responsiveness and continuous support throughout the preparation and development of the technical program. Their coordination and dedication have played a crucial role in the success of this event.

We are deeply thankful to our keynote speakers and panelists for contributing their expertise and perspectives, which have greatly enhanced VTC2026-Spring through insightful and engaging presentations and discussions. We also extend our heartfelt thanks to all authors, whose work forms the scientific core of this conference. Your contributions are highly valued and play an important role in advancing both this event and the wider research community.



Conference Information

Thank you all for contributing to making VTC2026-Spring a leading forum for innovation, collaboration, and discovery.

We look forward to welcoming you in Nice!

Dirk Slock, Kaibin Huang, and Alexander Wyglinski
TPC Co-chairs, IEEE VTC2026-Spring



Conference Information

Welcome from the VTS President

It is my great pleasure to welcome all of you to IEEE Vehicular Technology Conference (VTC2026-Spring) in Nice, France. The Vehicular Technology Conference (VTC) is the flagship conference of the IEEE Vehicular Technology Society (VTS), held twice a year in spring and fall.

VTC covers important aspects of the IEEE Vehicular Technology Society's fields of interest Mobile Communications, Motor Vehicles, and Land Transportation. In particular, it has become a major mobile communications conference since the early days of mobile communications. As a platform, which brings together individuals from academia, government, and industry to discuss and exchange ideas, VTC has helped to shape advancements and trends in wireless and vehicular technology. Over the years, the scope has widened to include cutting edge topics such as non-terrestrial, airborne and maritime mobile systems, electric vehicles and intelligent transportation, assisted and autonomous driving, green communications, machine learning and AI for communications, as well as positioning and navigation.

As an attendee of the IEEE Vehicular Technology Conference, I would like to invite you to participate also in other activities of IEEE VTS:

- Attend one of our other conferences. VTS runs a number of other conferences, including the Vehicle Power and Propulsion Conference (VPPC) and the Wireless Africa Conference (WAC). In May 2026 we just launched a new conference, InnovaRail, in the field of land transportation.
- Contribute to our journals as author, reviewer and editor.
- Become involved with our technical committees and standards activities. You can raise interest in our technical committees by signing up for a committee mailing list through the VTS webpage.
- Join or establish your local chapter and make use of the VTS Distinguished Lecturers Program in order to invite key experts as speakers to your chapter.
- Make use of the VTS educational program available in the VTS Resource Center.

If you are not yet a VTS member, I encourage you to become a new member or to renew your VTS membership.

Events such as the IEEE Vehicular Technology Conference would not be possible without a highly dedicated team of volunteers. I would like to express my sincere appreciation and gratitude to the organizing team and to everyone who has contributed in planning, preparation and execution of the conference.

For the four days, the technical program committee has put together an excellent combination of technical presentations, tutorials, workshops, industry perspectives, as well as panels on hot topics with high profile panelists.



Conference Information

I would like to particularly thank the general co-chairs Jérôme Härri, Yasser Fallah, and Lajos Hanzo, the technical program committee co-chairs Dirk Slock, Kaibin Huang, and Alexander Wyglinski as well as the VTS conference team with VTS VP Conferences J. R. Cruz, Cerry Leffler and Rodney C. Keele.

Finally, I hope that all attendees will have a wonderful experience and I wish all of you interesting and enlightening insights, fruitful discussions and a successful event at VTC2026-Spring.

Gerhard Bauch, *President*
IEEE Vehicular Technology Society



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2026 IEEE 103rd Vehicular Technology Conference

9-12 June 2026 | Nice, France



FINAL PROGRAM

		Lympia A-1 (A)	Lympia A-2 (B)	Lympia A-3 (C)	Lympia B-1 (D)	Lympia B-2 (E)	Lympia B-3 (F)	Lympia C-1 (G)	Lympia C-2 (H)	Lympia D-1 (I)	Virtual (V)
TUESDAY 9 June											
7:30-17:30		Registration (Front Area, Nicea Building)									
8:30-17:30		Tutorials and Workshops									
18:00-20:00		Welcome Reception (Lympia Building Rooftop)									
WEDNESDAY 10 June											
7:30-17:30		Registration (Front Area, Nicea Building)									
8:30-9:00		VTC Opening and Welcome									
9:00-10:30		Keynote: **Josef Eichinger**, Huawei;Open 6G: Toward Self-Synthesizing Autonomous NextG Networks: **Tommaso Melodia**, Northeastern University									
10:30-11:00		Refreshments and Exhibits (Nicea Building)									
11:00-12:30	(1)	Beam Forming	MIMO 1	UAV Communications 1	Authentication	Advanced Coding & Transmission 1	Sensor Networks	Satellite Networks 1	Testbeds and Proof-of-Concepts 1	Digital Twins	Machine Learning for Communications
12:30-14:00		Lunch (Nicea Building)									
14:00-15:30	(2)	Channel Modeling & Estimation	MIMO 2	UAV Communications 2	Security and Privacy	Advanced Coding & Transmission 2	Transceiver & Receiver Techniques	Satellite Networks 2	Testbeds and Proof-of-Concepts 2	Autonomous Driving	Emerging Technologies, 6G and Beyond
15:30-16:00		Refreshments and Exhibits (Nicea Building)									
16:00-17:30	(3)	Encoder & Decoder Techniques 1	MIMO 3	UAV Communications 3	Security and Resilience	Channel Estimation 1	Non-terrestrial Channels	Energy Efficiency	Scheduling 1	Collaborative Perception	Signal Processing for Wireless Communications, Cooperative Communication
18:00-20:00											
THURSDAY 11 June											
7:30-17:30		Registration (Front Area, Nicea Building)									
9:30-10:30		Entanglement Assisted Communications over Strong Atmospheric Turbulence Channels: **Ivan B. Djordjevic**, Florida State University									
10:30-11:00		Refreshments and Exhibits (Nicea Building)									
11:00-12:30	(4)	Encoder & Decoder Techniques 2	MIMO 4	Radio Access Technology 1	Heterogeneous & Mesh Networks	Channel Estimation 2	Non-terrestrial Networks 1	Applications & Security	Scheduling 2	Remote Driving	Transport Electrification, Vehicular Electronics, Intelligent Transport Systems
12:30-14:00		Awards Luncheon (Nicea Building)									
14:00-15:30	(5)	Encoder & Decoder Techniques 3	mmWave & ThHz 1	Radio Access Technology 2	Multi-Hop Networks	Channel Estimation 3	Non-terrestrial Networks 2	Positioning & Localization 1	Autonomous Vehicles	Security & Resilience	(a) Vehicular Communication, VehicularTelematics, Vehicular Cooperation, Autonomous Driving (b) Vehicular and Wireless Testbeds and Proof-of-Concepts
15:30-16:00		Refreshments and Exhibits (Nicea Building)									
16:00-17:30	(6)	Encoder & Decoder Techniques 4	mmWave & ThHz 2	Integrated Sensing and Communication 1	Channel & Interference Estimation 1	Antennas	Ad-Hoc Networks	Positioning & Localization 2	Driver Behaviour	Vehicular Technologies & Autonomous Driving	(a) Space, Non-terrestrial, Airborne, and Maritime Mobile Systems and Services (b) IoT, M2M, Sensor Networks, and Ad-Hoc Networking
19:00-23:45		Banquet (JW Marriott Cannes) - Busses load in front of conference centre from 19:00									
FRIDAY 12 June											
8:00-17:30		Registration (Front Area, Nicea Building)									
9:30-10:30		Scaling Intelligence: How AI-Native 6G Transforms Communications, Compute, and Sensing: **Amira Alloum**, Qualcomm France									
10:30-11:00		Refreshments and Exhibits (Nicea Building)									
11:00-12:30	(7)	Mobile Edge Computing	OpenRAN & AI-RAN & AI Agents	Integrated Sensing and Communication 2	Channel & Interference Estimation 2	Channel Modelling	Internet-of-Things	Satellite Systems	ITS	Vehicular & Edge Communication 1	Radio Access Technology and Heterogeneous Networks
12:30-14:00		Lunch (Nicea Building)									
14:00-15:30	(8)	RIS 1	Localization	Integrated Sensing and Communication 3	MIMO and Beamforming	Edge Technologies & Offloading	M2M	Integrated Networks (SAGIN, ISTN)	Power Systems	Vehicular & Edge Communication 2	(a) Antenna Systems, Propagation, and RF Design; (b) Protocol, Security and Services for Wireless Networks
15:30-16:00		Refreshments and Exhibits (Nicea Building)									
16:00-17:30	(9)	RIS 2	V2X & Robotics	Integrated Sensing and Communication 4	Resilience & Security	RF Techniques	Underwater Communication	Vision Systems	Vehicular Telematics		(a) Satellite Systems, Positioning Technologies, Localization and Navigation; (b) Spectrum Management, Spectrum Sharing and Green Communication

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2026 IEEE 103rd Vehicular Technology Conference

9 – 12 June 2026

OcéaNice Convention Center

Nice, France

Welcome from the General Co-Chairs

On behalf of the Organizing Committee, it is our great pleasure to welcome you to the 2026 IEEE 103rd Vehicular Technology Conference (VTC2026-Spring) in Nice, France. The conference venue, the OcéaNice Convention Centre, is conveniently located at the vibrant harbor district of this beautiful city on the French Riviera, and will host the event 9 – 12 June 2026.

Around 350 BC, the Greeks of Marseille founded a permanent settlement and called it Nikaia, after Nike, the goddess of victory. Through the ages, the town has changed hands many times. Its strategic location and port significantly contributed to its maritime strength. Dominion of the Count of Provence, Nice became a dominion of the House of Savoy in 1338, returning to France between 1792 and 1815, then back to the House of Piedmont-Sardinia until its re-annexation by France in 1860.

The natural beauty and mild Mediterranean climate of the Nice area came to the attention of the English upper classes in the second half of the 18th century; the city's main seaside promenade, the Promenade des Anglais ("the Walkway of the English") owes its name to those early resort visitors. Since then, the picturesque Nicean surroundings have attracted not only those in search of relaxation, but also those seeking inspiration. The clear air and soft light have been of particular appeal to some of Western culture's most outstanding painters, such as Marc Chagall, Henri Matisse, Niki de Saint Phalle and Arman. Their work is commemorated in many of the city's museums, including the Musée Marc Chagall, Musée Matisse and Musée des Beaux-Arts.

VTC2026-Spring is co-organized by EURECOM, located in Sophia Antipolis, a technology park named after Sophie, the wife of former French Senator and founder of the park Pierre Laffitte. The park is home to companies primarily in the fields of computing, telecommunications, electronics, and, more recently, AI; and hosts the European Telecommunications Standards Institute (ETSI).

VTC is one of the oldest wireless communications conferences, having contributed to the spectacular growth of the communications industry over the past five wireless generations. As a technology-developing community, we succeeded in turning the world into a global village, and created a global infrastructure that facilitates communications for all and fuels global business.

We are indebted to the entire Technical Program Committee, especially TPC Co-chairs Dirk Slock, Kaibin Huang, and Alexander Wyglinski.

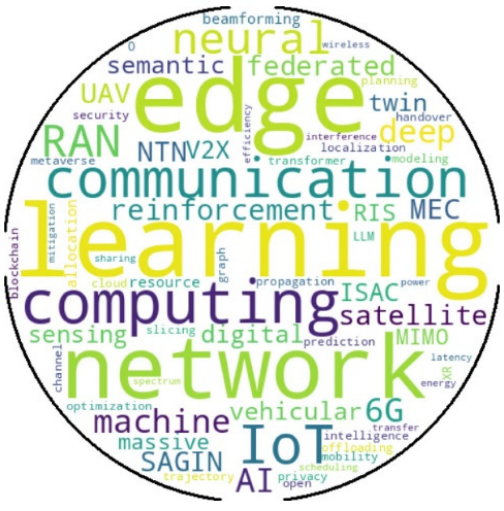
Our sincere thanks also go out to the entire executive committee for their generosity with their precious research-time invested in making the conference a success. We are particularly grateful to Finance Chair J. R. Cruz; Conference Managers Rodney C. Keele and Cerry Leffler; Publications Chair James Irvine; Tutorials Co-chairs Arun Padakandla, Emilio Calvanese Strinati, and Ion Turcanu; Workshops Co-chairs Alexey Vinel, Luhan Wang, and Beatriz Soret; Publicity Co-chairs Roberto Morabito, Laura Thor, Chenyuan Feng, and Eirini Eleni Tsiropoulou; Visa Support Chair Ali Nadar; and Local Arrangements Co-chairs Omid Esrafillian, Lise Cudin, and Marie Redureau.

Many thanks also to the Track Chairs for 'oiling the wheels' every step of the way, especially considering the significant number of submissions received. We are all grateful to our valued colleagues in the TPC and the research community at large for securing timely reviews!

We convey the community's gratitude to conference patrons Huawei and Qualcomm, as well as to countless further volunteers that contributed to the success of the conference.

On a technical note, following the gradual roll-out of the 5G system, research is now well under way towards the definition of next-generation standards with the goal of maintaining the current momentum of increasing the achievable performance. In the past, each consecutive decade saw a factor of ten bitrate improvement. But, these orders of magnitude throughput improvements were achieved at the cost of substantially increased power consumption. Escalating energy prices motivated the design of green radios, aiming for more power-efficient designs. However, it is widely recognized that there is a clear trade-off between bandwidth- and power-efficiency. Hence the single-component optimization era is over, and next-generation systems are expected to consider multi-component joint Pareto-optimization of the power- and bandwidth-efficiency, the delay and the complexity, to name just a few of the metrics.

All in all, it is an exciting era for our community—please join the debate on Wireless Futures and the rich set of potential enabling techniques shown at a glance in the word cloud below.



Our hope is that you, dear Colleagues, will enjoy the technical discussions, meet old friends and forge new professional links; and that you will also sample the local culture and history. We look forward to an enlightening and enjoyable event with you!

Jérôme Härri, Yaser Fallah, and Lajos Hanzo
General Co-Chairs, IEEE VTC2026-Spring

Welcome from the TPC Co-Chairs

On behalf of the Technical Program Committee, we are pleased to welcome you to the 2026 IEEE 103rd Vehicular Technology Conference (VTC2026-Spring). This edition features a vibrant and diverse technical program, covering recent advances in wireless systems and networks, connected and autonomous vehicles, as well as emerging developments in the vehicular and wireless testbeds, as well as open, virtual, and interoperable networks and services—along with many other topics shaping the future of our field.

VTC2026-Spring received 1217 submissions across the main conference, recent results, and workshops; of which 650 papers were accepted: 496 for the main conference and 154 for workshops. The IEEE VTC2026-Spring technical program is composed of 14 technical tracks and the recent results track, 22 workshops, 5 focused tutorials, 4 distinguished keynote speakers, and 4 outstanding panels. These panels will address key emerging areas such as UAV, Urban Air Mobility, Sustainability in 6G, offering valuable perspectives on the future of wireless and vehicular technologies.

We would like to take this opportunity to express our gratitude to all track co-chairs, as well as to all technical program committee members for their outstanding contributions. 1359 people completed one or more reviews within a limited timeframe, ensuring a smooth and efficient decision-making process. We also sincerely thank the workshop organizers for proposing highly relevant topics, and for managing the review process in a professional and effective manner.

Our sincere thanks go to the organizing and technical program committees for their responsiveness and continuous support throughout the preparation and development of the technical program. Their coordination and dedication have played a crucial role in the success of this event.

We are deeply thankful to our keynote speakers and panelists for contributing their expertise and perspectives, which have greatly enhanced VTC2026-Spring through insightful and engaging presentations and discussions. We also extend our heartfelt thanks to all authors, whose work forms the scientific core of this conference. Your contributions are highly valued and play an important role in advancing both this event and the wider research community.

Thank you all for contributing to making VTC2026-Spring a leading forum for innovation, collaboration, and discovery.

We look forward to welcoming you in Nice!

Dirk Slock, Kaibin Huang, and Alexander Wyglinski
TPC Co-Chairs, IEEE VTC2026-Spring

Welcome from the VTS President

It is my great pleasure to welcome all of you to IEEE Vehicular Technology Conference (VTC2026-Spring) in Nice, France. The Vehicular Technology Conference (VTC) is the flagship conference of the IEEE Vehicular Technology Society (VTS), held twice a year in spring and fall.

VTC covers important aspects of the IEEE Vehicular Technology Society's fields of interest Mobile Communications, Motor Vehicles, and Land Transportation. In particular, it has become a major mobile communications conference since the early days of mobile communications. As a platform, which brings together individuals from academia, government, and industry to discuss and exchange ideas, VTC has helped to shape advancements and trends in wireless and vehicular technology. Over the years, the scope has widened to include cutting edge topics such as non-terrestrial, airborne and maritime mobile systems, electric vehicles and intelligent transportation, assisted and autonomous driving, green communications, machine learning and AI for communications, as well as positioning and navigation.

As an attendee of the IEEE Vehicular Technology Conference, I would like to invite you to participate also in other activities of IEEE VTS:

- Attend one of our other conferences. VTS runs a number of other conferences, including the Vehicle Power and Propulsion Conference (VPPC) and the Wireless Africa Conference (WAC). In May 2026 we just launched a new conference, InnovaRail, in the field of land transportation.
- Contribute to our journals as author, reviewer and editor.
- Become involved with our technical committees and standards activities. You can raise interest in our technical committees by signing up for a committee mailing list through the VTS webpage.
- Join or establish your local chapter and make use of the VTS Distinguished Lecturers Program in order to invite key experts as speakers to your chapter.
- Make use of the VTS educational program available in the VTS Resource Center.

If you are not yet a VTS member, I encourage you to become a new member or to renew your VTS membership.

Events such as the IEEE Vehicular Technology Conference would not be possible without a highly dedicated team of volunteers. I would like to express my sincere appreciation and gratitude to the organizing team and to everyone who has contributed in planning, preparation and execution of the conference.

For the four days, the technical program committee has put together an excellent combination of technical presentations, tutorials, workshops, industry perspectives, as well as panels on hot topics with high profile panelists.

I would like to particularly thank the general co-chairs Jérôme Härri, Yasser Fallah, and Lajos Hanzo, the technical program committee co-chairs Dirk Slock, Kaibin Huang, and Alexander Wyglinski as well as the VTS conference team with VTS VP Conferences J. R. Cruz, Cerry Leffler and Rodney C. Keele.

Finally, I hope that all attendees will have a wonderful experience and I wish all of you interesting and enlightening insights, fruitful discussions and a successful event at VTC2026-Spring.

Gerhard Bauch, *President*
IEEE Vehicular Technology Society

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Matteo Nerini
Oleg Nesterenkov
Dang Kien Nguyen
Minh Dat Nguyen
Ti Ti Nguyen
Hieu Nguyen
Kien Nguyen
Nhan Nguyen
Huong Nguyen-Minh
Kejie Ni
Yunhao Ni
Alexander Niedermayer
Ta-seen Reaz Niloy
Boyu Ning
Hong Niu
Abdullah Noman
Md Noor-A-Rahim
Nourhene
Gulsaya Nurzhaubayeva
Pooja Nuti
Partick Odong
Ahmet Oguz Kıslal
Yongjeong Oh
Efthymios Oikonomou
Thrassos Oikonomou
Tamoghna Ojha
Hiraku Okada
Rodolfo Oliveira
Mohamed Omar
Oluwakayode Onireti
Alexander Osinsky
Shabnam Saderi Oskouei
Artem Otmakhov
Xiaoyu Ou
Mustafa Ozger
Patrice Pajusco
Basabdatta Palit
Silvia Palmucci
Yijin Pan
Zhenni Pan
Shashi Raj Pandey
Anshul Pandey
Xiaoya Pang
Ioannis Panitsas
Daniela Panno
Akshay Vayal Parambath
Enric Pardo Griñó
Joohyuk Park
Ki-Hong Park
Sangwoo Park
Seok-Hwan Park
Gianni Pasolini
Atsu Kokuvi Angélo Passah
Amit Patel
Kiran Kumar Pattanaik
Rui R. Paulo
Tommaso Pecorella
Roberto Pegurri
Mingyu Peng
Qiaoyan Peng
Xingyu Peng
Yiyang Peng
Yuanzhe Peng
Du Pengfei
Felipe Augusto Pereira de Figueiredo
Jordi Pérez-Romero
Giuseppe Perrone
S Swamy Peruru
Dirk Pesch
Loreto Pescosolido
Petros
Vitaly Petrov
Xiangyu Pi
M. Ertug Pihtili
Sibi Raj Pillai
Sandeep Pirbhulal
Pekka Pirinen
Shashidhar Reddy Polepalli
Michele Polese
Reza Poorzare
Alireza Pourafzal
Shiv Shankar Prajapati
Sumit Pratap Singh
Cong Pu
Lorenzo Pucci
Corrado Puligheddu
Weidong Qi
Xianke Qiang
Li Qiao
Liang Qiao
Tianrui Qiao
Langtian Qin
Nordine Quadar
Md. Thouhidur Rahman
Mohamed Rahouti
Parsa Rajabzadeh
Samikkannu Rajkumar
I Nyoman Apraz Ramatryana
Vittorio Rampa
Marco Rapelli
Dinith Primal P. Rathu Baduge
Carlos Ravelo
Francesco Raviglione
Nadana Ravishankar T
Priyanka Rawat
Ashirwad Ray
Mahdi Razzaghpour
Asmad Bin Abdul Razzaque
Ch Santosh Reddy
Ali Refaee
Hao Ren
Jie Ren
Qiao Ren
Yijing Ren
Yuzheng Ren
Zhilin Ren
Zhiyuan Ren
Olivier Renaudin
Vanessa Mendes Rennó
Sk Samiul Reza
Farhad Rezazadeh
Abdelkader Rhiati
Salvatore Riolo
Christiano Rodrigues
Alexey Rolich
Angelos Rouskas
Clement Ruah
Anuj Sachan
Enna Sachdeva
Usama Saeed
Mehrdad Saeidi
Ali Fuat Sahin
Alphan Sahin
Kentaro Saito
Sameera Muhamed Salam
Onur Salan
Pedro Salcedo Serrano
Osama Saleem
Abdelhamid Salem
Hammsam Salem
Aymen D. Salman
Dhawal Salwan
Juan Sanchez
Stephan Sand
Nikos Sapountzis
Asif Sarder
Irsat Emin Saridas
Sajal Sarkar
Sumanta Sarkar
Nirav Savaliya
Rim Sayegh
Lokman Sboui
Anita Schilirò
Drew Schlesener
Robert Schmidt
Jan Schreck
Karim Seddik
Michele Segata
Artun Sel
Kaushik Ram Selvaraj
John Sengendo
Jiwan Seo
Miguel Sepulcre
Onur Sever
Shinnazar Seytnazarov
Shahriar Shahram
Chuangye Shan
Jingfeng Shan
Chenglong Shao
Xiaodan Shao
Pranav Sharda
Ahmad Sharique
Vinay Krishna Sharma
Sachin Sharma
Salil Sharma
Srishti Sharma
Aleksei Shashin
Changyang She
Li-Hsiang Shen
Bingyu Shi
Chenhao Shi
Jiajia Shi
You Shi
Ziyuan Shi
Jae-Nam Shim
Takayuki Shimizu
Sangya Shrivastava
Cai Shuang
Tingyu Shui
Yu Shui
Abhishek Mani Shukla
Mahendra K. Shukla
Haonan Si
Jean-Christophe Sibel
Mihail L. Sichitiu
Abdul Jabbar Siddiqui
Galina Sidorenko
Houssem Sifaou
Dawit Simegn
Seif Sinan
Chandan Kumar Singh
Himanshu Kumar Singh
Suneet Kumar Singh
Jagdeep Singh
Jitendra Singh
Kamal Singh
Nitisha Singh
Simran Singh
Ugrasen Singh
Chetna Singhal
Fiza Siyal
Vitaly Skachek
Marco Skpcaj
Hideya So
Ali Hassan Sodhro
Amna Sodhro
Sourabh Solanki
Seyed Ahmad Soleymani
Christoph Sommer
Gerd Sommerkorn
Andrey Somov
Changqing Song
Fansheng Song
Shaoqian Song
Yu Song
Yuanyan Song
Zihang Song
Song
Aayushi Soni
Igor Sorokin
Suman Sourav
Ali Sourchap
Thomas Stahlbuhk
Valeriu Stanciu
Giovanni Stanco
Heidi Steendam
Bidon Stéphanie
Xin Su
Zeping Sui
Gizem Sümen
Kunyang Sun
Shuo Sun
Yuxuan Sun
Zhengqing Sun
Himal A. Suraweera
Sushila
Zaheen Syed
Dirk T.M. Slock
Azadeh Tabiban
Vaishnav Tadiparthi
Satoshi Takahashi
Chong Tang
Pan Tang
Xiangyun Tang
Yao Tang
Yosuke Tanigawa
Daniele Tarchi
Katsuhiro Temma
Wenjun Teng
Zihao Teng
Mehdi Testouri
Wim A. Th. Kotterman
Gokulnath Thandavarayan
Sapna Thapar
Christo Kurisummoottil Thomas
Feng Tian
Mengqiu Tian
Shuang Tian
Zhiyi Tian
Minu Tiwari
Dativa Tizikara
Vittorio Todisco

Besmir Tola
Jingwen Tong
Giulia Torcolacci
Hassan touati
Dinh-Hieu Tran
Phuong Tran
Arno Troch
Dzmitry Tsetserukou
Eirini Eleni Tsiropoulou
Takuma Tsubaki
Le Tung Giang
Ion Turcanu
Ashab Uddin
Arif Ullah
Sani Umar
Masahiro Umehira
Smriti Uniyal
Paul Unterhuber
Vahid
Lorenzo Valentini
Filip Valgimigli
Nancy Varshney
Venkat
Gyan Deep Verma
Shikhar Verma
Bart Vermeulen
Rasika Vijithasena
Leandro Villas
Alexey Vinel
Ankur Vora
Sri Wahyuni
Oliver Waldhorst
Bin Wang
Bohao Wang
Chaowei Wang
Chenhao Wang
Chenye Wang
Dawei Wang
Dezhi Wang
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Kaiming Wang
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Siqi Wei
Yannan Wei
Zhiwei Wei
Isuri Welgamage
Jinbo Wen
Yun Wen
Jian-Jia Weng
Wenjun
Dylan Wheeler
Widdha
Christian Wietfeld
Andras Wippelhauser
Isaac Woungang
Bibo Wu
Bincai Wu
Chang Wu
Changxiang Wu
Gang Wu
Guanghan Wu
Haonan Wu
Hongjia Wu
Huaqing Wu
Jiale Wu
Jinyang Wu
Maoqiang Wu
Mengru Wu
Qiong Wu
Shuang Wu
Yihang Wu
Zheyu Wu
Zhuofei Wu
Alexander Wyglinski
Runqing Xia
Yiyue Xiang
Fangqing Xiao
Pei Xiao
Yuquan Xiao
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Lingnan Xie
Mangang Xie
Mingyue Xie
Sijing Xie
Wei Xie
An Xing
Qinqin Xiong
Weijie Xiong
Yue Xiu
Aolin Xu
Bo Xu
Bokai Xu
Guanjun Xu
Hao Xu
Hengyu Xu
Lexi Xu
Lingwei Xu
Lingyun Xu
Runchen Xu
Ruopeng Xu
Shu Xu
Wei Xu
Xiaoren Xu
Yunting Xu
Zhuo Xu
Suneel Yadav
Balqis Yafis
Muhammet Yaser Yagan
Selma Yahia
Ryo Yamamoto
Ge Yan
Jin Yan
Yunqing Yan
Zhigang Yan
Feng Yang
Huiling Yang
Jiahui Yang
Jian Yang
Jin Yang
Lu Yang
Nuocheng Yang
Qianze Yang
Ran Yang
Shaochuan Yang
Shuaixin Yang
Tongzhou Yang
Wanchun Yang
Xiaoteng Yang
Xinglin Yang
Yang Yang
Yinchao Yang
Zonghui Yang
Kazuto Yano,
Yury Yanovich
Guorun Yao
Jiacheng Yao
Jiawei Yao
Zhuohui Yao
Yaqiong
Yaqoob
Timothius Victorio Yasin
Qiang (John) Ye
Jia Ye
Xiaowen Ye
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Yinghui Ye
Chenyang Yi
Wenhui Yi
Xiang Yi
Mert Yildiz
Osman Mert Yilmaz
Tayfun Yılmaz
Fangfang Yin
Yue Yin
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Mingjun Ying
Yitao
Hanju Yoo
Seonghoon Yoo
Kazutoshi Yoshii
Muhammad Irfan Younas
Néji Youssef
Haitham Ahmad Yousuf
Gang Yu
Hanzhi Yu
Jiadong Yu
Jiangbo Yu
Kai Yu
Lu Yu
Tao Yu
Zhiyuan Yu
Ziqing Yu
Chunjing Yuan
Haoxuan Yuan
Lei Yuan
Weimin Yuan
Xiaoming Yuan
Xiaopeng Yuan
Wenwei Yue
Murat Yuksel
Noman Zahid
Abolfazl Zakeri
Irma Zakia
Mohammad Zangooei
Mervat Zarour
Melissa Zebboudj
Matteo Zecchin
Thomas Zemen
Han Zeng
Hui Zeng
Jie Zeng
Qunsong Zeng
Hans-Jürgen Zepernick
Engin Zeydan
Wen Zhan
Zijun Zhan
Benteng Zhang
Boyuan Zhang
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Junwei Zhang
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Peng Zhang
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Xichen Zhang
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Yaoyuan Zhang
Yi Zhang
Ying Zhang
Yixin Zhang
Yu Zhang
Yuanjun Zhang
Yunchuan Zhang
Zezhong Zhang
Bohai Zhao
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Cheng-Jie Zhao
Hui Zhao
Hui Zhao
Jianyu Zhao
Kangchun Zhao
Lei Zhao
Na Zhao
Pincan Zhao
Ruijie Zhao
Zhouxiang Zhao
Zijia Zhao
Can Zheng
Haotian Zheng
Kai Zheng
Paul Zheng
Qi Zheng
Xiao Zheng
Yali Zheng
Yandong Zheng
Yufeng Zheng
Zhuming Zheng
Zhengbo
Igor Zhilin
Zhishen
Ruikang Zhong
Weifeng Zhong
Defeng Zhou
Di Zhou
Jiafeng Zhou
Jiaxuan Zhou
Kequan Zhou
Momiao Zhou
Xingyu Zhou
Yijia Zhou
Yiren Zhou
You Zhou
Zihan Zhou
Fengchao Zhu
Fenghao Zhu
Lipeng Zhu
Pengcheng Zhu
Qiuming Zhu
Xusheng Zhu
Yao Zhu
Zesheng Zhu
Xinyi Zhuang
Latif Zohaib
Dimitrios Zormpas
Yiping Zuo
Stanislav Zvanovec

Tutorials

A range of tutorials will be held on Tuesday 9 June 2026 given by experts from industry and academia.

Tuesday, 9 June 2026 9:00-12:30 M2

T1: 6G Non-Terrestrial Networks: Open RAN, Handover, and Service Availability for LEO Satellites and HAPS

Mustafa Ozger, Aalborg University, Denmark & KTH Royal Institute of Technology, Sweden; Cicek Cavdar, KTH Royal Institute of Technology, Sweden

This half-day tutorial provides a research-to-practice view of non-terrestrial networks (NTN) and high-altitude platforms (HAPS) as key building blocks for 6G coverage, resilience, and mobility support. We start from the connected-sky vision and the role of integrated terrestrial–non-terrestrial architectures, and then introduce NTN/HAPS link characteristics, 3D mobility, and service-availability metrics that capture reliability, latency, and handover effects.

A central focus is handover delay in LEO constellations. We explain why disaggregated and cloudified RANs complicate satellite mobility, how Open RAN functional splits reshape the tradeoff between handover latency and onboard processing, and what feasibility constraints arise when moving functions between onboard payload and ground/cloud. Building on this foundation, we present digitaltwin–based optimization of service availability in mega-constellations and show how handover delays and split choices enter availability-aware optimization.

Finally, we cover learning-based control for NTN-enabled services: reinforcement-learning handover management, deep-RL task offloading for dynamic satellite–cloud networks, and application cases such as IoRT data collection and HAPS/aerial base stations, where power consumption and service time constrain system design. The tutorial concludes with deployment lessons, standardization directions, and open research challenges.

Mustafa Ozger received the B.Sc. degree in electrical and electronics engineering from Middle East Technical University, Ankara, Turkey, in 2011, and the M.Sc. and Ph.D. degrees in electrical and electronics engineering from Koç University, Istanbul, Turkey, in 2013 and 2017, respectively. He is currently an Assistant Professor at Aalborg University, Copenhagen, Denmark, and a Researcher at the KTH Royal Institute of Technology, Stockholm, Sweden. His research focuses on advanced communication techniques, cognitive wireless networks, aerial and vehicular communication, ultrareliable low-latency communication (URLLC), non-terrestrial networks, and AI-based wireless network management. He has led and coordinated large-scale research projects, such as 6G for Connected Sky (6G- SKY) and Self-Learning Drone Surveillance projects, collaborating with international partners from academia and industry. He has supervised multiple Ph.D. and M.Sc. students in related fields and has published extensively in high-impact journals and conferences. Dr. Ozger has co-authored award-winning papers, including Best Paper Awards at IEEE ISCC 2016 and ASMS/ SPSC 2025. He serves as an Associate Editor for IEEE Transactions on Mobile Computing and IEEE Vehicular Technology. He is actively involved as a technical program committee member for IEEE ICC, GLOBECOM, WCNC, PIMRC, VTC, and other conferences.

Cicek Cavdar is an Associate Professor at KTH Royal Institute of Technology in Sweden, where she leads the "Intelligent Network Systems" research group, serves as the vice-head of the Communication Systems Division and the director of the newly established research center on satellite communications: SMART 6GSAT composed of 21 partners from Swedish satellite and telecommunication industry together with research institutes. Over the past decade, she has chaired

several symposiums and workshops focused on green mobile broadband technologies and green mobile networks, under IEEE ICC and Globecom.

She has played a pivotal role in numerous European projects, particularly in aerospace communications and sustainable network technologies. Since 2013, she has been leading EU projects centered on sustainability and green communications, including "5GrEEn: Towards Green 5G Mobile Networks," SooGREEN "Service Oriented Optimization of Green Mobile Networks," and AI4Green "Artificial Intelligence for Green Mobile Networks." In 2024, AI4Green earned the Eureka Innovations Award and the Celtic Excellence Award. She continues this work in the Celtic Next project, RAI-6Green, focusing on robust and AI-native green 6G networks. In the realm of aerospace communications, Cicek has been leading large-scale collaborative projects bringing together European satellite industry, telecom industry, spectrum regulatory bodies and academia since 2016, starting with the European project "Seamless Direct Air to Ground Communications (DA2GC) in Europe – ICARO-EU," followed by "6G-SKY – 6G for Connected Sky." Her research team is the recipient of the Scientific Excellence Award from the 12th Advanced Satellite Multimedia Systems Conference in 2025. She is the recipient of the large grant provided by SSF (Swedish Foundation for Strategic Research) to set up the first Swedish multi-disciplinary research center on 6G and satellite communications, SMART 6GSAT.

Her research interests encompass the design and analysis of telecommunication networks, with a particular emphasis on the integration of non-terrestrial and terrestrial networks, edge/cloud computing, sustainability and green communication systems, drone communications, and AI- assisted network management.

Tuesday, 9 June 2026 14:00-17:30 M3

T4: Digital twins and Real-world Integration for Vehicular–Aerial Intelligent Research and experimentation (DRIVE-AIR)

Francesco Linsalata, Marco Rapelli, Politecnico di Torino, Italy

Connected, Cooperative and Automated Mobility (CCAM) is rapidly evolving into a multi layer ecosystem where ground vehicles and Unmanned Aerial Vehicles (UAVs) interact through V2X communication, cooperative sensing, and data-driven decision making. Understanding and validating these systems requires approaches that combine high-level modelling, realistic simulation, and experimentally grounded testbeds.

This tutorial provides a unified overview of tools and methodologies that support CCAM research across simulation, digital twins, and real-world experimentation. We begin with the conceptual foundations of V2X communication and air–ground cooperation, introducing VaN3Twin, a multi technology V2X digital twin platform integrating heterogeneous communication stacks (ITS-G5, LTEV2X, NR-V2X), realistic mobility models, and ray-tracing-based propagation. This enables the creation and analysis of 3D-aware CCAM scenarios involving both vehicles and UAVs. Building on these foundations, the tutorial presents two lightweight experimental platforms designed to reinforce the theoretical concepts: (i) an autonomous UAV testbed capable of sensing uplink 5G signals and performing multi-user identification and localization during flight, and (ii) a vehicular CCAM testbed based on the OScar ITS-G5 stack used in real deployments to evaluate communication capabilities, cooperative awareness, and edge-case behaviours on the field.

These demonstrations are employed not only to focus on hardware implementation details, but to illustrate how simulation insights translate into experimental behaviour, and on the other side, how real world measurements can refine and validate digital-twin models. In addition to this, an overview of the hardware objects used for UAV testbed and for ITS-G5 real deployments will be also provided.

By combining modelling tools, digital-twin concepts, and examples of practical demonstrations, DRIVE-AIR offers participants a coherent and practice-oriented foundation for next-generation CCAM research across both ground and aerial domains.

Francesco Linsalata received his M.Sc. and Ph.D. degrees cum laude in Telecommunication Engineering from Politecnico di Milano. He is a researcher at DEIB, Politecnico di Milano. His research interests include V2X, UAV communications, CCAM digital twins, and B5G waveforms. He co-organizes PhD courses on CCAM systems, simulation, and experimental validation.

Marco Rapelli received his B.Sc., M.Sc., and Ph.D. degree cum laude from Politecnico di Torino, with a visiting period at TU Berlin. He is an Assistant Professor at DAUIN. His research focuses on mobility modelling, vehicular networks, UAV traffic simulation, and CCAM digital twins. He teaches courses on simulation and digital-twin methodologies for cooperative mobility.

Tuesday, 9 June 2026

T5: Edge Intelligence Meets 6G Native-AI RAN: Algorithms, Techniques and Implementations

Tony Quek, Singapore University of Technology and Design, Singapore; Chenyuan Feng, University of Exeter, UK; Xijun Wang, Sun Yat-sen University, China; Geyong Min, University of Exeter, UK

With the rapid evolution from 5G-Advanced to 6G, wireless systems face unprecedented challenges in terms of traffic heterogeneity, QoE assurance, energy efficiency, and system complexity. Edge AI is emerging as the enabler for low-latency and context-aware intelligence, while the paradigm of AI-native RAN promises to embed AI into the very fabric of radio networks. This tutorial explores how Edge AI and AI-native RAN can be synergistically designed, optimized, and deployed, creating a unified ecosystem where intelligence is not an add-on but an integral feature of wireless communication infrastructures. Drawing upon the combined expertise of four internationally recognized researchers, the tutorial covers: (i) high-performance computing and analytical modeling foundations for Next-G RAN; (ii) edge-cloud orchestration and AI-driven resource optimization; (iii) cutting-edge advances in Edge AI for communications and task-oriented networking; and (iv) architectural and system perspectives on AI-native RAN, including co-hosting of AI and RAN workloads. Through cross-disciplinary insights, we highlight both theoretical underpinnings and practical deployment paths, making it valuable for both academia and industry.

Prof. Tony Q.S. Quek received the B.E. and M.E. degrees from Tokyo Institute of Technology, and earned the Ph.D. at Massachusetts Institute of Technology (MIT), respectively. Currently, he is

Associate Provost, the Cheng Tsang Man Chair Professor with SUTD and ST Engineering Distinguished Professor. He also serves as the Head of ISTD Pillar, Director for Future Communications R&D Programme, Sector Lead for SUTD AI Program, and the Deputy Director of SUTD-ZJU IDEA. His current research topics include wireless communications and networking, 6G, network intelligence, non-terrestrial networks, and O-RAN. He is currently serving as an Area Editor for the IEEE Transactions on Wireless Communications. He was been an Executive Editorial Committee Member of the IEEE Transactions on Wireless Communications, an Editor of the IEEE Transactions on Communications, and an Editor of the IEEE Wireless Communications Letters. Dr. Quek received the 2008 Philip Yeo Prize for Outstanding Achievement in Research, the 2012 IEEE William R. Bennett Prize, the 2016 IEEE Signal Processing Society Young Author Best Paper Award, the 2017 CTTC Early Achievement Award, the 2017 IEEE ComSoc AP Outstanding Paper Award, the 2020 IEEE Communications Society Young Author Best Paper Award, the 2020 IEEE Stephen O. Rice Prize, the 2020 Nokia Visiting Professorship, and the 2022 IEEE Signal Processing Society Best Paper Award, 2024 IEEE Communications Society Wireless Communications Technical Committee (WTC) Recognition Award. He has been actively involved in organizing and chairing sessions and has served as a TPC member in numerous international conferences. He is a Fellow of IEEE, a Fellow of WWRF, a Fellow of the Academy of Engineering Singapore, and the founding Chair of AI-on-RAN working group in AI-RAN alliance.

Chenyuan Feng received the Ph.D. degree from the Singapore University of Technology and Design (SUTD), Singapore, in 2021. She was a postdoc research fellow at EURECOM, France. Her research interests include edge AI and AI for communications and network. Her research is funded by EU Horizon, NSFC and industry. She received 4 IEEE/ACM Best Paper Awards. She serves as an Associate Editor for the IEEE Internet of Things Journal, and IEEE Open Journal of the Communications Society. Dr. Feng has delivered several keynotes,

tutorials, and invited talks at IEEE conferences, and also organized 5 workshops/symposium relevant to edge computing and AI for communication. She is recognized as a 6G Star Young Scientist and a Marie Skłodowska-Curie Scholar. Recently, she was selected for China's Young Thousand Talents Program for Overseas Scholars and will join Sun Yat-sen University (ranked 85th globally and 8th in Mainland China according to the 2025–2026 U.S. News rankings) as an Associate Professor.

Xijun Wang received his Ph.D. degree from Tsinghua University (ranked 11th globally and 1st in Mainland China according to the 2025–2026 U.S. News rankings) and is currently an Associate Professor at Sun Yat-sen University (ranked 85th globally and 8th in Mainland China according to the 2025–2026 U.S. News rankings). He has published more than 180 papers in top international journals and conferences. He is the recipient of several prestigious awards, including the Huawei Excellent Technical Collaboration Project Award (2023), the Best Paper Award at IEEE ICCC'13, the Best Paper Award at FCN'24, and the 10th Anniversary Best Conference Paper Award at ICCCS. He has led and participated in multiple research projects, and as a key member in major projects such as the NSFC Key Program and the Ministry of Science and Technology Key R&D Program. He has also served in several important conference organization roles, including Publicity Chair of IEEE ICCC'13, Co-chair of the Wireless Communications Symposium at IEEE ICCC'16, Co-chair of Tutorials at IEEE ICCC'22, and Finance Chair of IEEE ISIT'26.

Prof. Geyong Min is the Chair and Director of High Performance Computing and Networking (HPCN) Research Group at the University of Exeter, UK. His main research interests include Next- Generation Internet, Analytical Modelling, Cloud Computing, and Big Data. His recent research has been supported by European FP6/FP7, UK EPSRC, Royal Academy of Engineering, Royal Society, and industrial partners including Motorola, IBM, INMARSAT, and InforSense Ltd. Prof. Prof. Min is the Co-ordinator of two recently funded FP7 projects. Prof. Min holds a world-class research track record of publications in the top international journals and at the prestigious conferences. He has produced more than 200 research publications including 2 edited books, 18 book chapters, 5 conference proceedings, and 100 papers in the leading international journals, as well as 100 papers at the reputable international conferences. He was the recipient of five Best Paper Awards from IEEE GreenCom'2013, TrustCom'2010, CSE'2009, ICAC'2008, and AINA'2007 conferences, respectively. He was invited to deliver 7 keynote speeches and 2 invited talks at International conferences in the area of High Performance Computing and Networking. Prof. Min is an Editorial Board member of 8 international journals and serves as the Guest Editor for 18 international journals. He has chaired/co-chaired 30 international conferences /workshops and served as the committee member of 120 professional conferences/workshops.

Tuesday, 9 June 2026 9:00-12:30 Lympia B-3

T7: Integrated Sensing, Communications, and Computing (ISCC) for 6G: Fundamentals, Emerging Technologies, and Road to Adoption

Hyeon Seok Rou, Giuseppe Thadeu Freitas de Abreu, Constructor University, Germany; Aryan Kaushik, RakFort, Ireland

Integrated sensing and communications (ISAC) have emerged as a cornerstone of sixth-generation (6G) wireless systems, merging communication and sensing to enable resource-efficient, perception-driven connectivity. More recently, the integration of over-the-air computing (AirComp) has evolved ISAC into integrated sensing, communications, and computing (ISCC), a paradigm further embedding distributed intelligence and in-network computation directly into the physical layer.

In light of this trend, our tutorial bridges fundamental theory with practical implementation to provide a comprehensive overview of ISCC for 6G vehicular networks. The program explores design principles, advanced waveforms for high-mobility ISAC, and multi-functional transceiver architectures, structured around three core pillars to support the next generation of intelligent, adaptive connectivity:

- ISCC System Design & Standardization: This section explores the 6G roadmap, including the IMT-2030 vision and 3GPP Rel. 19/21 developments, detailing how standardization efforts are shaping the convergence of communications, sensing, and computing, including the consideration of novel paradigms such as hybrid beamforming and intelligent metasurfaces.
- Next-Generation Waveform Design: A technical deep dive into the challenging doubly-dispersive (delay-Doppler) channels prevalent in V2X and NTN scenarios, closely coupled to the ISAC functionality. The session specifically focuses on affine frequency division multiplexing (AFDM), providing also a detailed discussion on the standardization perspectives of novel waveform design.
- Advanced Transceiver Architectures: This part examines novel algorithmic designs and transceiver aspects to enable joint communications, sensing, and computation, exploring unified signal processing frameworks and practical design methodologies, such as adaptive beamforming and joint channel and data estimation, that ensure robustness and scalability in multi-functional systems.

Hyeon Seok Rou received the B.Sc. degree in electrical and computer engineering in 2021 and the Ph.D. degree in electrical engineering in 2024, both from Constructor University Bremen, Germany. Since 2025, he has been a postdoctoral research fellow and lecturer at the School of Computer Science and Engineering, Constructor University Bremen. His research interests include nextgeneration (B5G/6G) wireless systems, integrated sensing and communications, signal processing in doubly dispersive channels, high-mobility communications, multi-dimensional modulation, overthe- air computing, V2X technologies, and quantum-accelerated optimisation. He has been the chapter representative of the Korean Scientists and Engineers Association in Germany since 2021, and has received distinctions including the KIST Europe Research Scholarship (2022). He also contributes to the IEEE Standards Association P3383 Working Group on ISAC performance metrics. See more on his personal website: (https://www.erichsrou.com).

Giuseppe Thadeu Freitas de Abreu received the B.Eng. degree in electrical engineering and the Latu Sensu degree in telecommunications from the Universidade Federal da Bahia, Brazil, in 1996 and 1997, and the M.Eng. and D.Eng. degrees from Yokohama National University, Japan, in 2001 and 2004. He was a postdoctoral fellow and later adjunct professor at the University of Oulu, Finland, from 2004 to 2011. Since 2011, he has been a professor of electrical engineering at Constructor University Bremen, Germany, and from 2015 to 2018 also held a professorship at Ritsumeikan University, Japan. His research interests span communications theory, signal processing, wireless localization, quantum computing, and next-generation wireless systems. He has received multiple awards and fellowships, including the Uenohara Award and JSPS/NICT fellowships, and has served as editor for several leading IEEE journals. See more on his website: (https:// pages.constructor.university/abreugroup/).

Aryan Kaushik is the Chief Innovation Officer (CIO) at the RakFort, Ireland, since 2025. He has been an Associate Professor at Manchester Met, UK, from 2024, as Assistant Professor (Senior Grade) at the University of Sussex, UK (2021-24), Research Fellow at the University College London, UK (2020-21), and also associated with University of Edinburgh, UK (2015-19), Hong Kong University of Science and Technology, Hong Kong (2014-15). He has held Visiting/Adjunct Professor/Researcher appointments at the IIITD, India (2025-27), University of Bologna, Italy (2024), Athena RC, Greece (2021), Imperial College London, UK (2019-20), University of Luxembourg, Luxembourg (2018), and Beihang University, China (2017-19 and 2022). He has served as External Assessor for academic promotion at the University of Hertfordshire, UK (2025), and as External PhD Examiner. He was an Invited Panel Member for the UK EPSRC ICT Prioritisation Panel (2023) and continues to review proposals for EPSRC (UK) and ANR (France). He is the Chair of the IEEE ComSoc ETI on ESIT, Co-Chair of the SIG on AITNTN, Vice Chair of one6G WG3, Founding Member of the SIG on FAS, and Core Member of the IEEE P1955 Standard on 6G-Empowering Robotics. He has edited five books with Elsevier and Wiley on ISAC, NTN, intelligent metasurfaces, and digital twins, and serves on the editorial boards of leading IEEE journals including IEEE Transactions on Communications, IEEE TMC, IEEE ComST, and IEEE OJ-COMS (Best Editor Award 2023–24). He is also the founder and host of the IEEE ComSoc Technology News (CTN) Podcast Series. Prof. Kaushik has delivered over 125 invited talks and tutorials worldwide and has served in leadership roles for numerous IEEE conferences, including ICC, GLOBECOM, and several specialized workshops. See more on his personal website: (https://sites.google.com/view/aryankaushik/home).

Tuesday, 9 June 2026 14:00-17:30 Lympia B-3

T12: From Zero-Touch to Intent-Based Networking: AI and LLMs for 5G and 6G Network Management

Adlen Ksentini, EURECOM, France

This tutorial provides an in-depth and practice-oriented overview of how Artificial Intelligence enables autonomous network management for 5G and future 6G systems. The tutorial starts by motivating the need for AI through the increasing complexity, heterogeneity, and performance requirements of next-generation networks, highlighting the limitations of manual and rule-based management. It introduces the concept of Zero-touch Service Management (ZSM) and presents a closed-control loop architecture integrating monitoring, analytics, and decision engines to achieve self-configuration, self-optimization, self-healing, and self-protection. Through concrete case studies, the tutorial demonstrates AI-driven solutions for different technological domains, including NFV lifecycle management (e.g., AI-based scaling of virtualized core functions), RAN self-configuration using deep reinforcement learning, and security management with ML-based DDoS detection and mitigation in network slicing contexts. The tutorial further explores emerging paradigms such as federated learning for privacy-preserving training and intent-based networking, where Large Language Models (LLMs) translate human-readable intents into actionable network configurations. It also addresses intent assurance using AI, XAI, and LLMs to guarantee SLA compliance. Overall, the tutorial bridges architectural concepts, algorithms, and real testbed implementations, showing why AI-native management is a cornerstone for scalable, flexible, and trustworthy 5G and 6G networks.

Adlen Ksentini is a full professor in the Communication Systems Department of EURECOM. He is leading the Netsoft group (23 people) actively contributing to network softwerization of 5G and 6G. Adlen Ksentini's research interests are Network Softwareization and Network Cloudification, focusing on topics related to ML and AI for 5G and 6G networks. He has been participating in several H2020 and Horizon Europe projects on 5G and beyond, such as 5G!Pagoda, 5GTransformer, 5G Drones, MonB5G, ImagineB5G, 6GBricks, 6G-Intense, Sunrise-6G, AC3, Flecon-6G, and 6G-DALI. He is the technical manager of Flecon-6G, 6G-Intense, and AC3, on zero-touch management of 6G resources and applications and Cloud Edge Continuum, respectively. He is interested in system and architectural issues, as well as algorithmic problems related to those topics, using Optimization algorithms and ML. Adlen Ksentini has given several tutorials at IEEE international conferences, including IEEE Globecom 2015, IEEE CCNC 2017/2018/2023, IEEE ICC 2017, IEEE/IFIP IM 2017, and IEEE School 2019. Adlen Ksentini received the best paper award from IEEE GlobeCom 2025, IEEE IWCMC 2016, IEEE ICC 2012, and ACM MSWiM 2005. He has been awarded the 2017 IEEE Comsoc Fred W. Ellersick for the best IEEE Communications Magazine paper.

Patrons and Exhibitors

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Registration

Registration will take place in the front area of the Nicea building, from 7:30 until 17:30 on Tuesday 9 June and Wednesday 10 June, and 8:00 until 17:30 on Thursday 11 June and Friday 12 June.

Social Events

Coffee breaks will take place in the Nicea building. Lunches are included in the full registration **(badges with a blue stripe)**. The lunches will also be in the Nicea building.

The reception on Tuesday evening will take place on the rooftop of the Lympia building and is open to all attendees, including student and life member registrations.

A banquet dinner is scheduled on Thursday evening the 11th of June from 19:00-23:00. The banquet is available for those with full conference registrations or those who have purchased extra tickets.

For the banquet, buses will be taking us to Cannes. Starting at 19:00, the buses will load in front of the conference center and transport delegates to the JW Marriott Cannes (45-50 minute drive) where we will enjoy a plated dinner on their Panorama Rooftop Terrace. At the conclusion of the event, buses will load starting at 23:00 and return delegates to the conference venue. While in Cannes, delegates will have time to visit the beach across the street from the banquet venue as well as nearby shops.

Keynotes

Wednesday, 10 June 2026, 9:00–9:45 Nicea

Keynote

Josef Eichinger, *Head of 6G research and Prototyping, Huawei Technologies Düsseldorf*

Josef Eichinger joined Huawei Technologies in 2013 to strengthen the 5G Research team in Munich. He started his professional carrier as technical expert in the field of industry energy and electronic systems. After the study he joined Siemens AG 1994 and was working in development of high frequency radar systems, optical networks and as researcher on radio technologies as HSPA and LTE. He changed to Nokia Siemens Networks 2007 as LTE Product Manager and was head of LTE-Advanced FastTrack Programs until 2012. Currently he is leading research on 5G and 6G enabled industrial communication in Huawei Munich Research Center. The focus are 5G/6G for industry 4.0, vehicle-to-vehicle communication and hospitals in particular how 6G Sensing could be valuable. Complementary to the research and standardization he is also responsible for the prove of the new concept by trials and live experiments e.g. Industrial Control in the Cloud, Robot as a Service, Tele-operated Driving, etc. Since April 2018 he is also member of the 5G-ACIA steering board and leading the Huawei delegation. Josef is also founding member of one6g.org and chairing the one6G WG4 Evaluation, Testbeds and Pilots because of his the long experiences with prototypes and test systems.).

Wednesday, 10 June 2026, 9:45–10:30 Nicea

Open 6G: Toward Self-Synthesizing Autonomous NextG Networks

Tommaso Melodia, *William L. Smith Professor, Northeastern University*

This talk will present an overview of the Open6G research program, which has established the architectural and algorithmic foundations for open, programmable, virtualized, and AI-powered next-generation cellular networks. We will review key advances in open RAN architectures, software-defined control, large-scale experimental testbeds, and hierarchical AI-driven network intelligence. Building on these foundations, we will chart the path toward the next frontier: the transition from networks that are programmable, observable, and controllable to autonomous, self-synthesizing systems capable of generating their own functionalities, whether standardized or not, and optimizing their own behavior to deliver better performance or new services tailored to specific users. We will discuss how agentic AI, combining reasoning, planning, and tool use, can enable this vision, and present recent results including multi-agent architectures and LLM-driven automation pipelines that represent concrete steps toward end-to-end network autonomy.

Tommaso Melodia is the William Lincoln Smith Professor with the Department of Electrical and Computer Engineering at Northeastern University in Boston, and the Founding Director of the Institute for Intelligent Networked Systems (INSI), a transatlantic research center spanning Boston, Burlington (MA), and London with over 200 members. He directs Open6G, a federal-industry university cooperative R&D center for next-generation open, programmable, and AI-powered 6G systems, and served as Director of Research for the NSF PAWR Program, a $100M+ national initiative that deployed city-scale wireless testbeds across the United States. He leads Colosseum — the world's largest wireless network emulator — serving researchers worldwide. Prof. Melodia is a Fellow of the ACM, IEEE, and the National Academy of Inventors, and a recipient of the NSF CAREER Award. He has received numerous best paper awards, including at IEEE INFOCOM and IEEE Globecom. He has authored over 370 peer-reviewed publications, holds 40+ patents, and is the co-founder of multiple technology spinoffs. He is the Editor-in-Chief of Elsevier Computer Networks, a co-founder of the AI-RAN Alliance and the 6G Symposium, a board member of the OpenAirInterface Software Alliance, and a member of the research council of the ATIS Next G Alliance. He served as TPC Chair for IEEE INFOCOM and General Chair for ACM MobiHoc, among others. His research has been extensively funded by U.S. government agencies and industry partners.

Thursday, 11 June 2026, 9:30–10:30 Nicea

Entanglement Assisted Communications over Strong Atmospheric Turbulence Channels

Ivan B. Djordjevic, *Professor, Florida State University*

Entanglement represents a unique quantum information feature offering distinct advantages for a wide range of communication and sensing applications. While nondegenerate entanglement assisted (EA) communication schemes have been proven effective, they typically require optical phase conjugation (OPC), often performed on weak signal photons that are subject to degradation from scattering, absorption, diffraction, and turbulence in free-space optical (FSO) channels. To solve this problem, we recently proposed two approaches: (i) to perform the OPC on bright idler photons and (ii) to employ degenerate EA concept. In this talk, we review our recent approaches to both nondegenerate and degenerate EA communications over turbulent FSO channels. For degenerate EA communications we describe two approaches. In the first approach, we rely on a costly and bulky 780 nm narrow-linewidth pump laser. In the second approach, we leverage two independent, low-cost telecom pump lasers operating in the C- and L-bands, which in combination with the type-0 PPLN waveguide can generate bright entangled photon pairs in the L-band. To demonstrate the proposed EA communication concepts, we conducted a series of experiments over a 1.5 km terrestrial FSO link on the University of Arizona campus. Experimental results indicate that the proposed EA systems are significantly more tolerant to turbulence effects compared to corresponding classical laser communication counterparts, particularly in strong atmospheric turbulence regime.

Ivan B. Djordjevic is a professor of electrical and computer engineering (ECE) and quantum information science at the Department of Electrical and Computer Engineering, FAMU-FSU College of Engineering, Florida State University, Tallahassee, FL, where he directs Quantum Communications, Sensing, and Networking Lab. He received his PhD degree from the University of Nis, Yugoslavia in 1999. Dr. Djordjevic is both the IEEE Fellow and the Optica (formerly OSA) Fellow. Professor Djordjevic has authored or co-authored 13 books, more than 620 journal and conference publications, and he holds 58 US patents. He has served as Area Editor/Associate Editor/Member of Editorial Board/Guest Editor for: IEEE Transactions on Communications, Optica/IEEE Journal of Optical Communications and Networking, IEEE Communications Letters, IOP Journal of Optics, Elsevier Physical

Communication (PHYCOM) Journal, Optical and Quantum Electronics, Frequenz, IEEE Signal Processing Magazine, Entropy, and IEEE/Optica Journal of Lightwave Technology. Prior to joining the Florida State University, Dr. Djordjevic held appointments at University of Arizona in Tucson, University of Bristol and University of the West of England, Tyco Telecommunications in USA, National Technical University of Athens in Greece, and State Telecommunication Company in Yugoslavia.

Friday, 19 June 2025, 9:30–10:30 Nicea

Scaling Intelligence: How AI-Native 6G Transforms Communications, Compute, and Sensing

Amira Alloum, *Director of Engineering & 5G/6G Wireless Research Center Europe, Qualcomm France*

The rapid emergence of agentic and multimodal AI is reshaping how users, devices, and machines interact with wireless networks. Rather than episodic, app-driven sessions, emerging applications increasingly rely on persistent, context-aware agents operating across an ecosystem of devices, including smartphones, wearables, extended reality displays, vehicles, and robots. This shift fundamentally alters traffic characteristics, increases the importance of uplink capacity and latency, and strengthens the coupling between communications and compute.

This keynote discusses why these trends motivate an AI-native design paradigm for 6G and outlines key architectural principles from a system and research perspective. The talk frames 6G not only as a new air interface, but as a fabric that jointly orchestrates communication, computation, and sensing across device, edge, and cloud. Three research pillars are examined. First, agentic AI and XR-driven applications motivate collaborative communications and distributed computing mechanisms that dynamically partition workloads under latency, energy, and form-factor constraints. Second, AI-enabled context-aware communications introduce AI-native protocols and RAN behavior that adapt resources using real-time application and user-experience signals. Third, AI-enhanced network operation and services, including real-time digital twins and integrated sensing and communications, open new directions for automation and novel non-connectivity services.

The keynote highlights open research questions relevant to the ongoing 6G study phase, spanning uplink-centric design, protocol abstraction, spectrum utilization, and the co-design of communications and inference.

Amira Alloum, PhD, is Director of Engineering at Qualcomm France, where she leads the European 5G/6G Wireless Research Center. In this role, she drives advanced research in wireless communications, in close collaboration with leading academic institutions and major industrial partners across Europe. The center plays a strategic role in national and European innovation ecosystems, with strong involvement in flagship European 6G research programs. Amira has also led Qualcomm's 5G/6G Innovation Platform project in Lannion, a program funded under the France 2030 initiative, which aims to position France at the forefront of next-generation mobile networks and to accelerate the industrial adoption of 5G and future 6G technologies. In parallel, she oversees Qualcomm's collaboration programs with universities and startups across the EMEA region, while continuing to contribute to academia through postgraduate supervision and lecturing on error-correcting code applications for wireless systems.

With over two decades of R&D experience spanning network operators, equipment vendors, and semiconductor companies, Amira has made significant contributions to 3GPP 5G standardization, LTE and DVB technologies, as well as to research in post-quantum security and advanced receiver architectures for wireless and optical communications.

Beyond her research and industrial activities, Amira is a member of the Scientific Council of the ARCEP Future Networks Committee and has contributed extensively to the IEEE through sustained leadership service, including chairing roles in several technical and organizational committees.

She holds a PhD in Information Theory from Institut Mines-Télécom / Télécom Paris and has an extensive publication and student supervision record in collaboration with leading international universities.

Panels

Wednesday, 10 June 2026, 11:00-12:30 Nicea

UAS Communications and Networking for Advanced Air Mobility

Moderator:	**Gürkan Gür**	*Zurich University of Applied Sciences (ZHAW)*
Panelists:	**Kamesh Namuduri**	*University of North Texas*
	Abdellah Chehri	*Royal Military College of Canada (RMC)*
	Keven Gambold	*Unmanned Experts*
	Antonios Lalas	*Centre for Research and Technology Hellas (CERTH)*

Globally, efforts are underway to integrate Unmanned Aircraft Systems (UAS) into the civilian airspace. This integration is necessary and essential before the industry develops and deploys realworld commercial applications such as Advanced Air Mobility (AAM) using UASs. Traditionally, communication support to air traffic management (ATM) comes from satellite communications operating at the geostationary orbit level. Recently, an alternative hybrid paradigm of 4G/5G cellular communications operating on the ground, and aerial networks and communications operating in mid-air, is being investigated for UAS Traffic Management (UTM). All these communication paradigms differ in terms of performance factors, such as latency, resilience, and data rates that they can support.

The telecommunications industry is working towards cellular communication-supported services for UTM. Cellular networks offer wide-area, high-speed, and secure connectivity for Beyond Radio Line-of-Sight (BRLOS) use cases. In recent years, numerous field trials have been conducted using terrestrial LTE networks to provide connectivity to UASs. As we advance, 5G or Beyond 5G would be a natural choice for supporting UAS traffic management. On the other hand, aerial networks provide a solution for sharing information in mid-air among UASs, offering low latency and high data rates. However, establishing connectivity among the UASs without any supporting infrastructure is exceptionally

challenging. Aerial ad hoc networks can complement satellite- and cellular-network-supported UAS navigation, command, and control. Specifically, a multi-layered architecture of integrated terrestrial, air, and satellite networks is promising for exploiting the advantages of different paradigms for networking and data exchange in AAM use cases. However, that integration is not trivial.

Additionally, especially with the current geopolitical landscape, resilience and security of these networks have become formidable requirements due to increasing threats and hostile actors. Therefore, these paradigms also have to be elaborated from the security and resilience perspectives. The panel will discuss the state of the art, challenges, standards, and regulatory aspects in efficient and resilient networking and communications enablers for AAM use cases.

Thursday, 11 June 2026, 11:00-12:30 Nicea

Sustainable AI and AI-Driven Sustainability towards 6G Systems

Moderator:	**Mir Ghoraishi**	*CEO of Gigasys Solutions, UK*
Panelists:	**Artur Hecker**	*Director, Huawei Munich Research Centre, Germany*
	Chiara Lombardo	*Researcher, University of Genoa, Italy*
	Sebastian Robitzsch	*Senior R&I Manager, InterDigital Europe Ltd, UK*
	Maziar Nekovee	*Head of Centre, University of Sussex, UK*

Dr Mir Ghoraishi is CEO and Founder of Gigasys Solutions, an innovative UK-based SME established in 2019, specialising in advanced wireless technologies and AI-driven network innovation. He holds a PhD in Wireless Communications from the Tokyo Institute of Technology and brings over 25 years of experience spanning academia, industry, and large-scale European collaborative R&D. He began his career in academia as an Assistant Professor at Tokyo Institute of Technology and later held senior research roles at the University of Surrey's 5G Innovation Centre (5GIC), where he contributed to some of the world's first large-scale 5G demonstrations, including advanced waveforms, beamforming architectures, and massive MIMO systems. He subsequently moved into industry, leading collaborative R&D, experimental validation, and the transition of advanced wireless innovations towards real-world deployment. Dr Ghoraishi has extensive experience in initiating, structuring, and coordinating complex multi-partner European projects. He recently coordinated the SNS JU project SNS BeGREEN, which advanced sustainability-by-design principles for 6G systems, and currently coordinates SNS iTrust6G, focusing on AI-native trust, security, and resilient service operation. His expertise includes O-RAN architectures, AI-driven network automation, and sustainable, secure 6G infrastructures. He is an active contributor to Europe's 6G strategy and policy landscape, serving as Vice-Chair of the SNS Sustainability Working Group, International Stream Chair of the SNS Trials Working Group, and member of the 6G-IA Architecture Working Group and the NetworldEurope Steering Board. As an SME founder and experienced R&D leader, Dr Ghoraishi brings a practical perspective on embedding sustainability into next-generation networks—spanning energy-efficient system design, AI-enabled optimisation, and the role of collaborative innovation ecosystems in delivering greener and more resilient digital infrastructure.

Dr. Artur Hecker (Dipl.inform. Universität Karlsruhe, Dr. ENST Paris) is Director of networking research and Expert at the Advanced Wireless Technology Laboratory of Huawei Munich Research Center, where he is responsible for research in mobile core networks and novel network technologies. The major subject of his research group is an efficient convergence of AI, IT and networking domains, i.e., clouds and networks, DC, enterprise and telco networking. Since Jan. 2024, he acts as Deputy TM of the European research project EXIGENCE, dedicated to measured ecodata exchange pertaining to ICT service usage. Between June 2021 and March 2025, Artur served as elected Chair of the Vision and Societal Challenges Working Group of the 6G-IA. Since March 2026, Artur serves as Chair of the Expert Advisory Group of Networld Europe, in which he has been very active for over a decade and elected Vice-Chair in March 2025. From 2006 to 2013, Artur was Associate Professor at Télécom ParisTech, where he was leading the Security and Networking research group. Overall, Artur looks back at 25+ years of entrepreneurial, academic and industry experience in networks, systems and system security research.

Dr Chiara Lombardo received her Ph.D. in Electronics, Informatics, Robotics and Telecommunications Engineering at the University of Genoa in 2014. Chiara is currently working as a researcher at the University of Genoa, Department of Electrical, Electronic and Telecommunications Engineering, and Naval Architecture (DITEN) and was previously with the CNIT S2N National Laboratory, where she is still involved in most of the research and technical activities. She is currently the Technical Coordinator of the HORIZON-JU-SNS-2022 Research and Innovation Action 6Green and has previously worked in several H2020 and FP7 projects, including MATILDA, INPUT and ECONET. She has co-authored over 40 papers in international journals, book chapters and international conference proceedings. Her current research interests cover green networking, NFV, and edge computing.

Dr Sebastian Robitzsch has 18 years (incl. PhD) of experience in research, technology development and standardisation of 3GPP and IETF-related system architecture technologies. Sebastian is currently a Senior R&I Manager at InterDigital Europe Ltd and an ETSI delegate to the ISG ISAC and an ITU delegate to the ITU-T FG AINN. He is author of 30+ peer-reviewed publications, leads the proof-of-concepting activities at InterDigital and has been actively collaborating in 10+ European and national-funded projects, specialising on system architecture, networking innovations and protocol design. Sebastian is author of 45 patent applications and author of 9 granted patents. Sebastian received his Ph.D. from University College Dublin, Ireland, in 2013 and an M.Sc. equivalent (Dipl.-Ing. (FH)) from the University of Applied Sciences Merseburg, Germany in 2008. In the past, Sebastian had been with Dublin City University, Ireland, Nokia Research, Finland, Fraunhofer FOKUS, Germany and Deutsche Telekom, Germany.

Maziar Nekovee is a Full Professor and Head of the Centre for Advanced Communications, Mobile Technology, and IoT, as well as the Managing Director of the 6G NetZero Lab at the University of Sussex, UK. He serves as Chair of the NetworldEurope Technology Platform's Working Group on Enabling Technologies for Future Vertical Ecosystem Transformation and is also Chair of the UK Telecoms Innovation Network (UKTIN), Academic Strategic Working Group. Additionally, he co-leads the UK Government-funded Network Plus Consortium, "A Green, Connected and Prosperous Britain," which brings together the telecommunications, energy, and mobility sectors to develop cross-sectoral technologies aimed at achieving a sustainable future society. Before joining academia in 2017, Prof. Nekovee held senior roles in industry, including as Head of Samsung's European 5G Research Division and Group Leader at BT (British Telecom) Research. His research expertise spans current (5G) and future mobile communication technologies (6G, 7G) and applied AI, with transformative applications across vertical sectors such as energy, automotive, health, and more recently, space and satellite communications. Prof. Nekovee has authored over 200 highly cited papers and a bestselling book, and in the past decade, he has delivered more than 100 keynotes, panels, and invited talks. He holds a PhD in Physics and an MEng in Electrical and Electronic Engineering from Delft University of Technology, The Netherlands. His accolades include the Royal Society Industry Fellowship, the Samsung Electronics Best Practice of Research Award, and the BT Innovation Award.

Technical Workshops

Tuesday, 9 June 2026 9:00 - 17:30 Lympia B-1

W2: 2nd International Workshop on Intelligent Aerial and Spaceborne Systems for 6G (6G SAGA): Communication, Sensing, and Autonomy for Mobility

IEEE VTC is a premier venue for innovations in vehicular technology, mobility, and intelligent transportation systems, and 6G SAGA extends this vision to the next frontier: AI native non terrestrial networks (NTNs) integrated with terrestrial 5G/6G for connected and autonomous mobility. As vehicles evolve into intelligent nodes in a global network, terrestrial infrastructure alone cannot meet the demands of large-scale traffic monitoring, ultra-reliable V2X, and ubiquitous coverage. This workshop addresses these challenges by exploring Space–Air–Ground Integrated Networks (SAGIN) that leverage satellites, UAVs, and HAPS to complement terrestrial systems.

Aligned with VTC's emphasis on vehicular networks, edge computing, and emerging paradigms such as quantum secure communications, 6G SAGA focuses on joint communication–computing–sensing (3CS) for mobility, edge intelligence and federated learning for real-time decision making, and ISAC for positioning and navigation in high mobility environments. Topics include multi-orbit coordination, autonomous aerial swarms for traffic support, and energy-efficient NTN protocols for sustainable transportation.

This workshop is technically supported by the Japan Science and Technology Agency (JST)'s Adopting Sustainable Partnerships for Innovative Research Ecosystem (ASPIRE) Project and the Information Network Technical Committee (IN) of the Institute of Electronics, Information and Communication Engineers (IEICE), Japan..

Honorable Chair
Ohtsuki Tomoaki, *Keio University*

Workshop Organizers
Trung Quang Duong, Memorial University
Shigeru Shimamoto, Waseda University
Kyunghan Lee, Seoul National University
Tu Dac Ho, NTNU

Program

Morning Session

Keynote: Multi-Component Optimization of Space-Air-Ground Integrated Networks
Lajos Hanzo, University in Southampton

1 AI-Native End-to-End Link Management over SAGIN via Anomaly-Resilient Prediction for 6G In-Flight Communications
Sayantan Bose, National Institute of Technology Meghalaya; Shikhar Verma, Kochi University of Technology; Mostafa Fouda, Idaho State University; Zubair MD Fadllulah, Western University Canada; Diptendu Sinha Roy, National Institute of Technology Meghalaya

2 FT8-Based Ionospheric Condition Estimation for Aerial and Spaceborne Communications
Yukiko Tanabe, Kazutoshi Yoshii, Shigeru Shimamoto, Waseda Uni.

3 Learning Compact Terrain-Context Representations for Feasibility-Aware Offline Reinforcement Learning in UAV Relaying Networks
Joseanne Viana, UC3M; Viswak R Balaji, University College Cork; Boris Galkin, Lester Ho, Holger Claussen, Tyndall National Institute

4 RL-based Resource Allocation in NOMA-Enabled NTN for Massive Machine-Type Communications
Ti Ti Nguyen, Duc-Dung Tran, Vu Nguyen Ha, Hung Nguyen-Kha, University of Luxembourg; Giorgio Taricco, Politecnico di Torino; Eva Lagunas, Symeon Chatzinotas, University of Luxembourg

5 Terrain-Aware Joint Optimization of HAPS Position and Cell Configuration for Tunable Throughput-Coverage Trade-off
Wataru Takabatake, Koji Tashiro, Kenji Hoshino, SoftBank Corp.; Tomoaki Ohtsuki, Keio University

6 When LEO Backhaul Bursts Hit the RAN: QoE-Aware PRB Control to Absorb NTN Dynamics
Suneet Kumar Singh, NTNU; Tu Dac Ho, Stanislav Lange, Thomas Erich Zinner, Norwegian University of Science and Technology; Zhenni Pan, Shigeru Shimamoto, Waseda University

Afternoon Session

7 AI-Driven Semantic Communication for Robust Perception Sharing in 6G Space-Air-Ground Integrated Mobility Systems
Jiaxin Fan, Waseda Univeristy; Zhenni Pan, Jun Wu, Waseda University

8 Capacity Analysis of Weibull Fading Channels for Satellite-Ground Integrated Communications
Aiwei Lei, Zhengzhou University; Di Zhang, Sun Yat-sen University; Aimin Li, Middle East Technical University; Evgeny Khorov, Russian Academy of Sciences

9 Game-Theoretic Trajectory Planning with Sensing-Based Intention Estimation for AMRs
Keigo Okano, Toru Namerikawa, Keio University

10 MMDRL-Based Adaptive Parameter Optimization in UAV Swarm Network
Mingyuan Wang, Ming Lei, Rongpeng Li, Zhejiang University

Keynote: HAPS and SAGIN for 6G: Toward Seamless Non-Terrestrial Mobile Communications
Otsuki Tomoaki, Keio University

Tuesday, 9 June 2026 9:00 - 18:15 Nicea

W3: 2nd Workshop on AI-Driven Connectivity for Vehicular and Wireless Networks

As the 6G era approaches, integrating AI into Vehicular and Wireless Access Networks (AI-VWAN) is expected to revolutionize network performance through improved efficiency, adaptability, and intelligence. This workshop focuses on addressing key challenges such as optimizing limited resources like energy and spectrum, essential for sustainable and high-performing 6G networks. It will explore AI applications in frameworks like Open RAN and LoRAWAN, highlighting AI's role in resource allocation, network interoperability, and adaptive decision-making across diverse

deployment scenarios. The workshop aims to bridge theory and practice by fostering collaboration among researchers, industry professionals, and technologists through discussions on cutting-edge AI techniques, including reinforcement learning and federated learning. By addressing resource management and performance optimization, the event seeks to advance sustainable and intelligent 6G networks, enabling AI and RAN to work seamlessly to meet future demands.

Workshop Organisers
Tommaso Melodia, Northeastern University
Rui Dinis, University Lisbon
Celimuge Wu, The University of Electro-Communications
Francesca Cuomo, Sapienza University of Rome
Jin Nakazato, Tokyo University of Science

Program

Tuesday, 9 June 2026 9:00 - 10:30 Nicea

Session 1

1 **Characterizing the Computational Feasibility of AI Video Analytics Across Edge, Fog, and MEC in Urban Intelligent Transportation Systems**
Elena Mariolina Galdi, Marco Savarese, Gaetano Orazio Cauchi, Paolo Burgio, University of Modena and Reggio Emilia; Davide Bertozzi, University of Manchester; Andrea Marongiu, Carlo Augusto Grazia, University of Modena and Reggio Emilia

2 **TinyML-Enabled Priority-Aware V2X Communication for Fog-Edge Emergency Vehicles**
S Hemath Durga Kumar, Ch Madhu Bhushan, Surayya A, Firoj Gazi, SRM University AP; Md Muzakkir Hussain, Fachhochachule Dortmund

3 **A Dynamic Caching Method for Named Data Networking in Vehicular Ad Hoc Networks**
Satoshi Nishino, Masami Yoshida, Taku Noguchi, Ritsumeikan Uni.

4 **Diffusion-Based Covert Semantic Communication over Time-Varying Channels**
Riku Kurahashi, Goki Sawada, Tokyo University of Science; Shun Kojima, Chiba University; Kazuki Maruta, Tokyo Uni. of Science

5 **Propagation Delay-Based Localization for mmWave Distributed MIMO Systems in Multipath Environments**
Mohd Adnan, University of Aveiro; Jin Nakazato, Tokyo University of Science; Adão Silva, DETI / Instituto de Telecomunicações / University of Aveiro; Rui Dinis, Universidade Nova de Lisboa; Lukasz Krzymien, Nokia Solutions and Networks

Tuesday, 9 June 2026 11:00 - 12:30 Nicea

Session 2

Keynote
Megumi Kaneko, University of Tokyo

1 **Dynamic Channel Prediction Method Based on Multi-Scale Transformer**
Rong Zhao, Liyan Li, Rongpeng Li, Zhejiang University

2 **UE Count Forecasting via Transformer-Based Mobility Decomposition and Cross-Cell Propagation Modeling**
Yoshiaki Nishikawa, Eiji Takahashi, NEC Corporation

3 **AI-Driven Multi-Layer Federated Split Learning for Hardware-Impaired Multi-Cell 6G Edge Networks with Dynamic zCDP**
Wenjie Wang, Jianxin Dai, Nanjing University of Posts and Telecommunications; Zhaohui Yang, Zhaoyang Zhang, Qianqian Yang, Zhejiang University; Xiangzheng Si, Yang Sun, CRSC Research Design Institute Group; Kun Yang, Zhejiang University

Tuesday, 9 June 2026 14:00 - 15:30 Nicea

Session 3

Keynote
Jakob Hoydid, NVIDIA

1 **Fast Weight Derivation for Phase-Controlled Massive MIMO Null-Space Expansion with Analog Beamforming**
Masaya Ueda, Tokyo Unicersity of Science; Yuta Tsunoda, Tokyo University of Science; Chun-hsiang Huang, Koji Ikuta, Kyocera Corporation; Kazuki Maruta, Tokyo University of Science

2 **Null-Space Expansion for OTFS-Based Downlink MU-MIMO Transmission**
Yuki Sasaki, Tokyo University of Science; Omid Abbassi Aghda, NOVA University of Lisbon; Salah Berra, National institute informatics Tokyo; Rui Dinis, Universidade Nova de Lisboa; Kazuki Maruta, Tokyo University of Science

Tuesday, 9 June 2026 16:00 - 18:15 Nicea

Session 4

1 **UAV Flight Trajectory Planning for Wireless Power Transfer Using Cooperative Beamforming**
Yutaro Kimura, Hayato Taniguchi, Tomotaka Kimura, Jun Cheng, Doshisha University

2 **UAV Trajectory Planning Based on Centroids of Ground Device Positions for SAGIN**
Hiroyuki Nishikawa, Tomotaka Kimura, Jun Cheng, Doshisha University

3 **Experimental Evaluation of High-Frame-Rate OCC Using Clock Offsets in Image Sensor Arrays**
Yuto Okada, Yuta Furukawa, Tokyo University of Science; Daisuke Hisano, Osaka University; Yu Nakayama, Tokyo University of Agriculture and Technology; Kazuki Maruta, Tokyo University of Science

4 **Deep reinforcement learning-based MLO traffic allocation for OFDMA transmission in IEEE 802.11be networks**
Foissey, Lila Boukhatem, Paris-Saclay University, France; Megumi Kaneko, National Institute of Informatics

5 **Comparative Study of High-Speed Ising Machines for Optimization to Wireless Resource Allocation Problems**
Jialu Xing, Jin Nakazato, Tokyo University of Science; Maki Arai, Shibaura Institute of Technology; Kensuke Inaba, Toshimori Honjo, Hiroki Takesue, NTT Corporation; Kazuyuki Aihara, The University of Tokyo; Mikio Hasegawa, Tokyo University of Science

6 **SNR-Adaptive Optimal Threshold Design for Energy Detection in Dynamic Spectrum Access**
Sushila, National Yang Ming Chiao Tung University; Jane-Hwa Huang, National Chi Nan University; Chih-Min Yu, Chung Yuan Christian University; Li-Chun Wang, National Yang Ming Chiao Tung University

7 **Estimating Timing Advance for Sub-THz Distributed Systems from Sub-10 GHz Channel State Information**
Nishant Gupta, Linköping University; Muris Sarajlic, Ericsson Research, Lund, Sweden; Erik G. Larsson, Linköping University

Tuesday, 9 June 2026 16:00 - 17:30 Lympia D-1

W4: 2nd Workshop on Shaping the Future of Flight: Innovations in Advanced Air Mobility (AAM)

Recent advances in unmanned aviation have unlocked new opportunities for the aviation industry. Encouraged by successful demonstrations such as U-Space and Unmanned Aircraft System (UAS) Traffic Management (UTM), the industry is progressing toward advanced air mobility applications, including air taxi and air ambulance services. Concurrently, academic research is addressing challenges posed by high-density, low-altitude UAS operations. Advanced aerial mobility is described by the National Academies Press as a transformative airborne technology supporting an

ecosystem designed to transport people and goods to locations beyond the reach of traditional air transportation, including complex urban environments. Key platforms being developed include short-range, runway-independent, and highly automated vehicles such as electric Vertical Takeoff and Landing (eVTOL) aircraft.

In addition to new platforms, advancements are emerging in vertiport design, software, sensors, and alternative energy solutions. Global community testbeds and frameworks, such as the Aerial Experimentation Research Platform for Advanced Wireless and U-Space, are enabling experimentation in advanced aerial mobility.

The industry anticipates challenges in airspace operations, traffic management, vehicle health monitoring, and human–autonomy teaming. There is a need for strategies in micro-weather modeling, collision avoidance, detection of uncooperative aircraft, and GPS-denied operations. Advances in communication, navigation, and surveillance are critical, including the exploration of 5G and 6G networks, satellite links, and radio-frequency communication.

Workshop Organisers
Abdellah Chehri, Royal Military College of Canada
Kamesh Namuduri, University of North Texas
Gürkan Gür, Zurich University of Applied Sciences
Keven Gambold, Unmanned Experts

Papers

1 **Predictive GNSS Signal-Quality--Driven Receiver Adaptation for Robust UAV Navigation**
Akash Kumar Mandal, Indian Institute of Technology Delhi; Krittika Choudhuri, MCKV Institute of Engineering; Ashik Paul, Institute of Radio Physics and Electronics; Ajay K Poddar, Synergy Microwave Corp.; Ulrich Rohde, Rohde & Schwarz GmbH & Co KG, Munich, Germany; Swades De, Indian Institute of Technology Delhi

2 **Air Cells: Digital Building Blocks of Airspace for Advanced Air Mobility**
Mathias Kidane, Logan McCorkendale, Zachary McCorkendale, Kamesh Namuduri, University of North Texas; Ravi Subramanian, Hermes Autonomous Air Mobility Solutions

3 **Ground Control Station for Managing Airspace Operations in Advanced Air Mobility**
Mathias Kidane, Kamesh Namuduri, Zachary McCorkendale, Logan McCorkendale, University of North Texas; Pavan Sai Kumar Reddy Thummala, Syam Narayanan S, Indian Institute of Technology Hyderabad; P. Rajalakshmi, NMICPS TiHAN, Indian Institute of Technology Hyderabad

4 **A DRL-based Communication Scheme for 6G UAV Systems**
Vu Khanh Quy, Hung Yen University of Technology and Education; Abdellah Chehri, Royal Military College of Canada; Vi Hoai Nam, Hung Yen University of Technology

5 **FAS mounted UAVs for 6G Networks Localization**
Nagla Abuzghaia, University of Benghazi; Naila Elmangosh, College of Electrical and Electronic Technology; Abdelhamid Salem, Ahmed Elbarsha, University of Benghazi; Khaled Rabie, KFUPM

Tuesday, 9 June 2026 14:00 - 17:30 M2

W5: 6-DCIoT: 6G-Driven Distributed Computing for IoT in Terrestrial- Non-Terrestrial and Vehicular Networks

The 3rd edition of the 6-DCIoT Workshop invites original research contributions addressing the rapidly evolving intersection of distributed computing, intelligent IoT systems, and integrated Terrestrial–Non-Terrestrial Networks (T-NTN), with a strong focus on mobility-centric applications such as vehicular and drone-assisted networks. As 6G advances toward a unified ground–air–space communication and computing fabric, the workshop serves as a premier venue for researchers, engineers, and practitioners to discuss challenges, innovations, and validated deployments within this emerging multi-layer ecosystem. 6-DCIoT builds upon the growing need for resilient, low-latency, and computation-aware communication architectures that leverage edge intelligence, federated and collaborative learning, lightweight DNN inference, routing/scheduling optimization, and reliable IoT–NTN integration. We particularly welcome contributions offering reproducible testbeds, prototypes, performance evaluations, and cross-layer algorithms that bridge IoT, 6G, NTN, and vehicular systems.

Workshop Organizers
Tamoghna Ojha, IIT (ISM) Dhanbad
Nikumani Choudhury, BITS Pilani, Hyderabad Campus
Sofiane Hamrioui, ESAIP Engineer School
Pascal Lorenz, University of Haute-Alsace

Program

Tuesday, 9 June 2026 14:00 - 15:30 M2

Session 1

Keynote: Distributed Intelligence at the Edge for 6G IoT in Terrestrial, Non-Terrestrial and Vehicular Networks
Daniele Tarchi, Università Degli Studi Di Firenze

1 **Reliable Message Delivery in Direct-to-Satellite IoT: Some Preliminary Results**
Sonu Rathi, BML Munjal University Gurugram; Siddhartha S. Borkotoky, Indian Institute of Technology Bhubaneswar

Tuesday, 9 June 2026 16:00 - 17:30 M2

Session 2

1 **Rethinking NB-IoT Downlink Synchronization for LEO-NTN: A Novel Overhead Reduction Method and Measurement-Based Evaluation**
Ömer Lütfü Karakelle, Erhan Karakoca, Bengü Bilgiç Keskin, İbrahim Hökelek, TÜBİTAK BİLGEM; Ali Gorcin, Istanbul Technical University; Halim Yanikomeroglu, Carleton University

2 **Optimized Relay-based Quantum Key Distribution for Terrestrial/Non-terrestrial Backhaul Networks**
Saurav Kumar Singh, Sumana Maiti, IIT Bhubaneswar; Ayan Mondal, IIT Indore; Atri Mukhopadhyay, IIT Bhubaneswar

3 **Hierarchical Deep Reinforcement Learning for Communication and Computation Resource Management in Heterogeneous Space-Air-Ground Integrated Networks**
Xiaomin Liu, Yujie Peng, Southeast University; Xiaoqin Song, Nanjing University of Aeronautics and Astronautics; Tiecheng Song, Southeast University

4 **Trustless-by-Design Security Framework for distributed IOT of 6G Non-Terrestrial Networks**
Chandramouli Palli, Indian Institute of Technology -Khargpur; Sajal Sarkar, Power Grid Corporation of India Ltd; Aneek Adhya, Indian Institute of Technology Kharagpur

Tuesday, 9 June 2026 Online

W6: 6G-empowered Robotic Vehicles for Sustainable Development (The Fourth VeSUS)

The VeSUS workshop aims to explore the role of 6G technology in advancing the support of robotic vehicles within the framework of sustainable development. It seeks to develop more sustainable, eco-friendly, and efficient methodologies for robotic vehicle sensing, computing, and communication. The workshop will delve into the various opportunities and challenges of deploying robotic vehicles in diverse scenarios, identifying key performance indicators (KPIs) that adhere to sustainable design principles. Furthermore, it will investigate innovative 6G solutions to address these challenges and meet the KPIs, enhancing the capabilities of robotic vehicles to operate in complex environments with greater reliability, agility, and energy efficiency. The workshop will cover a wide range of topics crucial to advancing the integration of 6G technology in robotic vehicles for sustainable development. These topics include use case studies highlighting sustainable development applications, and the deployment of 6G-empowered sensor networks for enhanced robotic vehicle performance. Key networking aspects will be explored, including architectures and communication protocols, as well as the application of machine learning and AI to improve robotic vehicle operations. The workshop will also delve into cloud, fog, and edge computing intelligence, along with advanced data gathering and aggregation methods. Coordination and communication in multi-robotic vehicle systems will be examined, focusing on self-organizing and self-healing mechanisms. Energy-efficient approaches in sensing, computing, and communication will be highlighted, alongside distributed control and collaborative frameworks. Biologically inspired communication systems and software-defined networks will be discussed, as well as critical aspects of path planning, navigation, and target tracking. Additionally, the workshop will address quality of service and experience, cybersecurity and privacy concerns, and will feature performance analysis and experimental demonstrations of robotic vehicles tailored for sustainable development.

Workshop Organizers
Tao Zhang, Beijing Jiaotong University
Zhenhui Yuan, University of Warwick
Trung Q.Duong, Memorial University of Newfoundland
Pei Xiao, University of Surrey

Papers

1 **EA-IGRL: Energy-Efficient Computation Offloading for 6G-Empowered Robotic Vehicles**
Yuxuan Xiao, Han Xiao, Chuxing Fang, Changqiao Xu, Beijing University of Posts and Telecommunications

2 **Reliability-Aware Multimodal Perception for 6G-Empowered Robotic Vehicles**
Xiangning Duan, Weijia Feng, Ruojia Zhang, Rui Lan, Tianjin Normal University; Chenyang Wang, Shenzhen University; Xiaoqiang Zhu, Beijing Jiaotong University; Wenjuan Wu, Tianjin Normal University

3 **DS-Net: A Lightweight Defect Sensing Network for 6G MEC-Enabled Inspection Robots**
Guangmiao Kang, Yi Zhong, Wuhan University of Technology; Tianren Ming, Northern Kentucky University; Yi Han, Wuhan University of Technology

4 **Knowledge Distillation Driven Semantic NOMA with GAN Refinement for 6G Robotic Vehicle Networks**
Qifei Wang, Zhen Gao, Beijing Institute of Technology; Li Qiao, University of Hong Kong; Ziwei Wan, Beijing Institute of Technology; De Mi, Birmingham City University; Dapeng Li, Ying Sun, Beijing Institute of Technology

Tuesday, 9 June 2026 9:00 - 17:30 Lympia D-2

W7: 7th International Workshop on Decentralized Technologies and Applications for IoT (D'IoT) 2026

The D'IoT workshop 2026 will focus on advances in decentralized technologies, e.g., trustless systems, distributed ledgers, and their applications within the Internet of Things (IoT) and Big Data systems. The workshop encourages submissions in both foundational decentralized technologies and innovative IoT-driven application domains. Topics of interest include, but are not limited to: theories and applications of Big Data Analytics for IoT, decentralized applications for healthcare informatics, privacy-preserving visualization techniques for IoT data, security and privacy in IoT using trustless and decentralized mechanisms, next-generation decentralized solutions for IoT systems, decentralized IoT applications in smart cities, decentralized approaches for fog and edge-enabled IoT, and forward-looking visions on trustless decentralized IoT architectures, among others. The workshop welcomes inter-disciplinary and cross-domain studies spanning a variety of areas in computer science including enriched IoT data management over blockchain, mobile computing, information extraction and retrieval, distributed systems, cybersecurity, and related fields.

Workshop Organizers
Muhammad Muzammal, Northumbria University
Ali Hassan Sodhro, Kristianstad University
Sandeep Pirbhulal, Norwegian Computing Center

Program

Tuesday, 9 June 2026 9:15 - 10:15 Lympia D-2

Session 1: Trustworthy AI, Cybersecurity & Threat Intelligence

1 **Securing AI-as-a-Service Platform through Blockchain and Smart-Contracts**
Ali Nadar, Jérôme Härri, EURECOM

2 **Securing IoT with AI-based Cyberattack Detection Models using Real-World Testbeds and Datasets**
Riku Lehkonen, University of Jyväskylä; Knut Selstad, University of Agder; Sandeep Pirbhulal, Habtamu Abie, Norwegian Computing Center; Ismail Ari, Ozyegin University

3 **LLM-Assisted Stateful Fuzzification of Electric Vehicle Charging Protocol**
Nima Valizadeh, Cardiff University; Devki Nandan Jha, Tomasz Szydlo, Newcastle University; Omer Rana, Cardiff University; Rajiv Ranjan, Newcastle University

Tuesday, 17 June 2025 10:15 - 12:00 Lympia D-2

Session 2: Blockchain, Federated Learning & Decentralized Intelligence

1 **Blockchain-Assisted Decentralized Federated Learning for Trustworthy Edge-IoT Systems**
Muhammad Irfan Younas, Sukkur IBA University; Ali Hassan Sodhro, Fatiha Djebbar, University West Trollhattan, Sweden; Sandeep Pirbhulal, Norwegian Computing Center

Coffee Break 10:30-11:00

2 **Feasibility and Efficiency Analysis of Distributed Byzantine-Tolerant Consensus on Securing Internet of Things**
Yuwei Le, Purple Mountain Laboratories; Rui Jiang, Yiheng Jiang, Southeast University; Jixing Wei, Purple Mountain Laboratories; Haifeng Shan, Jiangsu Unmanned Technology R&D and Operation Center; Jiaheng Wang, Yongming Huang, Southeast University

3 **Zero-Knowledge Inspired Provenance for Trustless Federated Learning in Decentralized IoT Systems**
Mir Hassan, Sergio Arnoldo Jofre, Giedre Sabaliauskaite, Mykolas Romeris University; Nawaz Ali, University of Calabria; Ali Hassan Sodhro, Kristianstad University; Nihan Kahraman, Yildiz Technical University

4 **Multi-Tier Edge Intelligence Using Distributed Learning for Resilient 6G Non-Terrestrial Networks**
Nawaz Ali, university of calabria, Rende, Italy; Bhagwan Das, School of Technology, Torrens University Australia; Gianluca Aloi, University of Calabria; Pasquale Pace, University of Calabria - RENDE; Ali Hassan Sodhro, Magnus Johnsson, Kristianstad University

Tuesday, 9 June 2026 12:00 - 14:15 Lympia D-2

Session 3: Edge Computing, Smart Infrastructure & Intelligent Applications

1 **HAPPO: Heuristic Assisted Proximal Policy Optimization for Dynamic Microservice Placement in Vehicular Edge Computing**
Surayya A, SRM University AP; Md Muzakkir Hussain, Fachhochachule Dortmund

2 **Profiling-Driven Hybrid Scheduling for Energy-Efficient IoT Edge Acceleration on CPU-GPU-FPGA Platforms**
Rupinder Kaur, Toronto Metropolitan University; Arghavan Asad, Algoma University; Farah Mohammadi, Toronto Metropolitan University; Yazan Otoum, Algoma University

Lunch Break 12:30-14:00

3 **TrustChain-FL: Lightweight Blockchain-Assisted Trust Aggregation for IoT-Enabled Decentralized Federated Learning**
Muhammad Babar, Prince Sultan University

Tuesday, 9 June 2026 14:15 - 15:30 Lympia D-2

Session 4: Virtual Papers

1 **Green Energy-Aware Blockchain Integrated Edge Cloud for Public Transportation Applications**
Abdullah Lakhan, Dawood University of Engineering and Technology; Tor-Morten Grønli, Kristiania University College; Magnus Johnsson, Ali Hassan Sodhro, Kristianstad University

2 **Adversarial Insight: A Visual Knowledge Graph of Maritime Cyber Threats**
Scott Nash, Muhammad Muzammal, Hamid Jahankhani, Northumbria University

3 **Explainable Fake News Detection Using BERT with Advanced Stylometry and Robust Fusion**
Saqib Hussain, Biju Issac, Muhammad Muzammal, Northumbria University

4 **Unified Threat to Control Framework with NLP-Assisted Control Harmonisation Across IT, OT, and IoT**
Fatiha Djebbar, Ali Hassan Sodhro, University West Trollhattan, Sweden

Closing Remarks
Ali Hassan Sodhro and Sadeep Pirbhulal

Tuesday, 9 June 2026 Online

W8: 10th Workshop on Connected Intelligence for IoT and Industrial IoT Applications- C3IA

In the current landscape, industrial enterprises are confronted with the imperative of implementing concepts such as Industrial IoT (IIoT), Industry 5.0, and Cyber-Physical Systems (CPS). As we transition into the Industry 5.0 era, significant challenges in data management must be urgently addressed. The requirement to process extensive volumes of heterogeneous sensor data in real time to control production machinery is paramount. Traditional information-processing capacities are being outstripped by the capabilities of smart devices, resulting in an exponential increase in data volumes, even from singular sources. Furthermore, the integration of unstructured data from production reports and external sources is critical for optimizing and analyzing production processes. The global distribution of data further complicates processing, underscoring the importance of advanced solutions to scale effectively.

The potential of recent advancements in machine learning and artificial intelligence is immense. The integration of smart devices, big data analytics, and machine learning is on the brink of revolutionizing the future of smart systems, networks, and applications. By combining hardware, software, data collection, and advanced analytics techniques such as predictive and prescriptive analysis, these systems can harness real-time insights to significantly enhance industrial performance. Moreover, sophisticated AI solutions provide deeper insights and more agile methods to improve operational efficiency on an industrial scale.

Workshop Organizers
Abdellah Chehri, Royal Military College of Canada
Muhammad Ali Jamshed, University of Glasgow
Saadane Rachid, Hassania School of Public Works
Gwanggil Jeon, Incheon National University

Papers

1 **An Applicable DRL Approach for Beamforming and Resource Allocation in RIS-assisted NOMA-ISAC 6G Communication**
Mahdi Nouri, Sharif University of Technology; Sima Sobhi-Givi, University of Mohaghegh Ardabili; Hamid Behroozi, Sharif University of Technology; Zhiguo Ding, Nanyang Technological University; Md Jalil Piran, Sejong University

2 **Semi-Blind Detection in M-ary Signaling based Uplink Cell-Free mMIMO Industrial IoT Networks**
N V Divya Lakshmi, Adarsh Patel, Indian Institute of Technology Mandi

3 **Federated Edge Learning Framework for UAV-Assisted IoV Services**
Vu Khanh Quy, Hung Yen University of Technology and Education; Abdellah Chehri, Royal Military College of Canada; Dao Manh Linh, Dang Nhat Minh, Nguyen Gia Ba, Pham Anh Thu, Hung Yen University of Technology and Education

Tuesday, 9 June 2026 14:00 – 17:30 Lympia A-1

W9: AI-driven Semantic Communications

The wireless networks applications evolve from traditional human-driven and consumed applications with objective of maximizing data rates to AI-based applications for interaction of intelligent autonomous agents including machines, vehicles, and robots. Unlike humans, the autonomous agents do not require a perfect delivery of all raw bits at high data rate but rather need a proper understanding of delivered messages in the context of performed task or mission to be accomplished. This motivates to reconsider the concept of communication from bit-oriented to meaning-oriented communication networks in a resource efficient manner. Thus, the workshop targets the emerging topic of semantic communications, which facilitates reduction of communicated data and information required for a correct completion of the task or mission of autonomous agents. The semantic communications enable radio, computing, and energy efficient communication focused on delivery of only meaningful information between communicating agents. The semantic communications is also beneficial for generic agents even with multiple sensors and sources of information allowing to take a multimodality of real-life environments into account. In such case, an extraction and combination of the task/mission-related information from different sources enable further reductions in the communication burden, aiming to operate only with data beneficial for different applications. This goes hand-in hand with latest developments in generative AI enabling to recover potentially missing information on the receiver side. The workshop targets all aspects of semantic communication ranging from theoretical foundation, via resource management, system and network aspects, to integration to AI-native future networks.

Workshop Organizers
Zdenek Becvar, Czech Technical University in Prague
Mehdi Bennis, University of Oulu
Pietro Michiardi, EURECOM
Emilio Calvanese Strinati, CEA-LETI

Program

Tuesday, 9 June 2026 14:00 – 15:30 Lympia A-1

Session 1

Keynote: Semantic Bridges: Making AI-Native Communication Explainable and Interoperable
Paolo di Lorenzo, Sapienza University of Rome

1 **Deep Reinforcement Learning for Intelligent UAV-assisted Secured Semantic Communications**
Gaurav Kumar Pandey, Matus Dopiriak, Technical University of Kosice; Devendra Singh Gurjar, National Institute of Technology Silchar; Suneel Yadav, Indian Institute of Information Technology Allahabad; Juraj Gazda, Technical University of Kosice

2 **Computation Offloading Framework based on Reconstruction-Free Semantic Communication**
Adam Janes, Zdenek Becvar, Jan Daněk, Czech Technical University in Prague

Tuesday, 9 June 2026 16:00 – 17:30 Lympia A-1

Session 2

1 **Large Language Model-Based Semantic Communication System for Image Transmission**
Soheyb Ribouh, University of Rouen Normandy; Osama Saleem, INSA Rouen

2 **Toward a Unified Semantic Loss Model for Deep JSCC-based Transmission of EO Imagery**
Ti Ti Nguyen, Thanh-Dung Le, Vu Nguyen Ha, Duc-Dung Tran, Hung Nguyen-Kha, Dinh-Hieu Tran, Carlos Luis Marcos Rojas, Juan Merlano Duncan, Symeon Chatzinotas, University of Luxembourg

3 **Secure-SFBL: Authenticating Generative Semantic Streams for Autonomous Agents**
Quazi Mamun, Manoranjan Paul, Charles Sturt University

4 **Spatial-Frequential Adaptive Learned Image Transmission for Precoded MIMO Systems**
Yiding Li, Zijian Liang, Kai Niu, Ping Zhang, Beijing University of Posts and Telecommunications

Tuesday, 9 June 2025 9:00 - 12:30 Lympia A-1

W10: Edge Intelligence meets AI-Native RAN: Theory, Algorithm and Implementation

The AI-RAN Workshop aims to bring together leading researchers, engineers, and industry practitioners to explore emerging advancements in Open, Programmable, and AI-Native Radio Access Networks (RANs). As wireless systems evolve toward 6G, RAN architectures are undergoing a paradigm shift from traditional, tightly coupled designs to open and disaggregated frameworks powered by standardized interfaces, software programmability, and pervasive AI/ML intelligence. This workshop provides a timely platform to address the key challenges and opportunities that arise in designing, optimizing, and deploying intelligent RAN systems across edge and cloud infrastructures, highlighting innovations in AI-driven control, semantic- and intent-based network automation, programmable PHY/MAC, edge intelligence, and sustainable RAN design, as well as critical issues including multi-vendor interoperability, real-time

orchestration, scalability, and security. A central focus is bridging theory and practice by showcasing real-world prototypes, open-source testbeds, and industrial implementations of AI-native RAN solutions.

The half-day workshop will feature three keynote talks, ten peer-reviewed paper presentations, a panel discussion, and potential invited contributions from top experts in wireless networks, distributed AI, and O-RAN ecosystems. Participants from academia, industry, and research labs will engage in interactive discussions, demonstrations, and networking activities aimed at accelerating innovation and cross-disciplinary collaboration. By fostering deep dialogue across theoretical foundations, system design, and practical deployment experiences, the workshop seeks to shape the future of intelligent RANs and advance the development of next-generation wireless networks.

Workshop Organizers

Chenyuan Feng, University of Exeter
Zihan Chen, Singapore University of Technology and Design
Xijun Wang, Sun Yat-sen University
Jihong Park, Singapore University of Technology and Design

Papers

1 **Adaptive Swin Transformer Partitioning over AI-RAN Networks**
Nguyen Thanh Tam, Yong Hao Pua, Van Tuan Ngo, Ngo Van Mao, Jihong Park, Binbin Chen, Tony Q.S. Quek, Singapore University of Technology and Design

2 **Knowledge-Assisted Queue-Aware Spatio-Temporal 2-D Short-Packet Coding for URLLC**
Yi Jia, Yuxuan Li, Southeast University; Hongxin Lin, Purple Mountain Laboratories; Yongming Huang, Southeast University

3 **AoI-Aware Data Valuation for Closed-Loop Control in O-RAN**
Qiao Yajuan, China Telecom Research Institute; Zexu Li, China Telecom Research Institute, Beijing; Xiaoyu Chi, Beijing University of Posts and Telecommunications; Yue Wang, China Telecom Research Institute

4 **Model-Driven Hierarchical Graph Neural Networks for Partially-Connected Precoder Design**
Chenyang Yi, National Mobile Communications Research Lab, Southeast University; Wei Xu, Southeast University; Zhaocheng Wang, Tsinghua University; Derrick Wing Kwan Ng, University of New South Wales; Huahua Xiao, ZTE; Zhaohua Lu, ZTE Corporation, Shenzhen, China

5 **Joint Constellation Shaping and Deep Learning-based Symbol Decision in OFDM Systems**
Jiayi Liu, Luhan Wang, Haozhe Jin, Anpei Li, Gangyu Bai, Zhaoming Lu, Beijing University of Posts and Telecommunications

6 **Transformer-Based Intelligent Signal Detector for Media-Based Modulation**
Xu Wu, Ming Lei, Xi Chen, Zhejiang University

Tuesday, 9 June 2026 9:00 - 12:30 Lympia A-2

W11: Emerging LEO Satellite Constellation Communication and Network Technologies for 6G Ubiquitous Connectivity

The Special Session on LEO Satellite Constellation Communication and Network Technologies for 6G Ubiquitous Connectivity explores the transformative potential of Low Earth Orbit (LEO) satellite constellations in achieving the ambitious goals of 6G connectivity. As endorsed by ITU-R, 6G aims to deliver ultra-reliable, low-latency, and globally accessible communication, a leap forward from the fifth generation (5G) that primarily focuses on enhanced Mobile Broadband (eMBB) and Massive Machine-Type Communications (mMTC). LEO satellites, with their low latency, global coverage, and high-density service capabilities, present a promising solution to bridge the digital divide, especially in underserved regions. They also enable critical real-time applications, including augmented reality (AR), virtual reality (VR), autonomous mobility, and industrial IoT. This workshop brings together researchers and industry experts to address key technical challenges such as seamless handover management, frequency optimization, interference control, and AI-driven network orchestration. The event will feature a keynote by Prof. Kaibin Huang, IEEE Fellow and NAI Fellow, on the integration of Large Language Models (LLMs) and LEO satellite networks, highlighting how AI-driven optimization and fluid AI can enhance the management of these dynamic systems. The session will also include technical sessions with oral presentations of selected papers and a panel discussion with leaders from industry, including Jintao Zhang (MarineSAT), Qingsong (Hansoon) Han (TrainFX), Radu Lupoaie (Keysight), and Yue Wang (China Telecom). The session aims to foster collaboration and innovation in the design of LEO-based systems for the next generation of communication technologies.

Workshop Chairs

Zhen Gao, Beijing Institute of Technology
De Mi, Birmingham City University
Li Qiao, The University of Hong Kong
Ziwei Wan, University of Surrey

Papers

1 **Distributed Massive MIMO Ground Station With Small Multi-beam Antennas for LEO Constellations**
Koyo Tategami, Daisuke Goto, Kiyohiko Itokawa, Tomohiro Tokuyasu, Fumihiro Yamashita, NTT Corporation

2 **Handover Mechanisms for Integrated Terrestrial and LEO Satellite Networks: A 6G Survey and Research Roadmap**
Ainur Daurembekova, RPTU University Kaiserslautern-Landau; Hans Schotten, University of Kaiserslautern

3 **Massive MIMO LEO Satellite Communications with FIMCC-Aided Pilot Reuse**
Yuanshuo Wang, Li You, Huibin Zhou, Southeast University; Wei Wang, Xi'an Jiaotong University; Ke-Xin Li, Xidian University; Xiang-Gen Xia, University of Delaware; Xiqi Gao, Southeast University

4 **Reduced-Basis Constrained Tree Search for Large-Scale MIMO Detection**
Lanxin He, Zheng Wang, Southeast University; Jinming Wen, Jinan University; Yongming Huang, Southeast University

5 **The WMMSE Algorithm Based on BFGS Quasi-Newton Method in Massive MIMO Systems**
Yuhuan Zhao, Bin Yan, Zheng Wang, Yongming Huang, Southeast University; Qingjiang Shi, Tongji University

6 **Fair Energy Efficient Semantic Communication for Satellite-Air-Ground Integrated Network**
Yichen Wu, Jianxin Dai, Nanjing University of Posts and Telecommunications; Zhaohui Yang, Zhejiang University; Chen Zhu, Zhejiang Provincial Key Laboratory of Information Processing; Zhaoyang Zhang, Zhejiang University

7 **PT-KMS: A Polynomial Pool and Trust Chain-based Distributed Key Management Scheme for LEO Satellite Networks**
lilongyu, Shuang Tian, Tao Zhang, Beijing Jiaotong University; Xiangyun Tang, Minzu University of China; Jiacheng Wang, Nanyang Technological University; Zhenghui Yuan, University of Warwick; Xuangou Wu, Anhui University of Technology; Jiawen Kang, Guangdong University of Technology; Geng Sun, Jilin University; Jiqiang Liu, Beijing Jiao Tong University, China

Tuesday, 9 June 2026 Online

W12: Emerging Metaverse and 6G Massive/Immersive Communications (6G Metaverse)

This workshop is the second edition of IEEE VTC 6G Metaverse (and its seventh version across different venues) and is driven by the imperative to unravel the challenges and harness the opportunities that arise from the emerging computer and data communication networks, e.g., Metaverse and 6G networks. The requirement for the Metaverse, i.e., connecting the real world to the virtual world, cannot be ignored for many future vertical industries. It will necessitate intelligent solutions and novel physical-layer technologies, which can be provided by the advanced 6G networks. The enhancement from the eMBB and mMTC to Immersive Communication and Massive Communication has been considered as one of the paradigm shifts in 6G, as endorsed by ITU-R.

Workshop Organizers
De Mi, Birmingham City University
Zhen Gao, Beijing Institute of Technology
Sami Muhaidat, Khalifa University
Abbas Jamalipour, University of Sydney

Papers

1 **Adaptive Fuzzy Logic-Driven Handover Framework for Ultra-Dense 6G Networks**
Akzhibek Amirova, Laura Aldasheva, Astana IT University

2 **Bandwidth Limited Diffusion-Driven Semantic Communication**
Zhengjia Xu, Aston University; zhuangkun wei, durham university; Hongjian Sun, Durham University; Julie A McCann, Imperial College London

3 **Data-Driven Path Loss Prediction for 28 GHz mmWave Communications in Dense 5G and Beyond Networks for Immersive Metaverse Services**
Gulsaya Nurzhaubayeva, Astana IT University

4 **Multidimensional Resource Allocation for Proactive Immersive Communication with Feasible Learning**
Xing Wei, Beihang University; Yue Wang, China Telecom Research Institute

5 **Multi-Sensory Attack Vectors in Immersive 6G Metaverse Environments: A STRIDE-Based Threat Categorization Attempt**
Wiktor Sędkowski, Opole University of Technology

6 **Stability-Aware ATSSS for XR Hysteresis-Guided and DRL-Based Multi-RAT Control in 5G Wi-Fi Networks**
Bharat Agarwal, Dublin City University

7 **A Semantic-Driven Communication Framework for Bandwidth-Limited Internet of Vehicles**
Yingquan Zou, Yixiao Zhang, Jinfu Li, Southwest Jiaotong University; Chong Huang, University of Surrey; Xiaoxu Zhang, Southwest Jiaotong University; Donggen Li, Chongqing University; Pei Xiao, University of Surrey

8 **Joint Massive Access and Intelligent Trajectory Design for UAVs Communications Network under Low-Altitude Complex Airspace**
Xiaoli Liu, Simeng Feng, Jingxiang Yuan, Yunyi Zhang, Kefeng Guo, Nanjing University of Aeronautics and Astronautics; Baolong Li, Nanjing University of Information Science and Technology; Qihui Wu, Nanjing University of Aeronautics and Astronautics

Tuesday, 9 June 2026 Online

W13: Fluid Antenna System (FAS) for 6G

The upcoming sixth-generation (6G) wireless networks are expected to provide extremely high capacity, reliability, massive connectivity, and services beyond communications. In compliance with this trend, next-generation reconfigurable antenna (NGRA) technologies have been proposed for enabling flexible and adaptive wireless communications. Fluid antenna system (FAS), representing any software-controllable fluidic, dielectric or conductive structures, such as mechanical liquid-based antennas, radio-frequency (RF) pixel-based antennas, movable antennas, massive array, flexible antenna array, or metasurface, etc., that can reconfigure the shape, size, position, orientation, and other radiation characteristics, has been proposed in recent years. Unlike the traditional antenna techniques where multiple antennas are discretely deployed with fixed configurations, the very fine spatial resolution and dynamic shape of FAS enable it to capitalize on the full range of spatial variations and flexibilities, resulting in significantly improved performance. Moreover, recent findings show that FAS is closely related to holographic MIMO system and reconfigurable intelligent surface (RIS). Therefore, interesting discoveries can be obtained to advance the development of FAS from holographic MIMO or RIS and vice versa. FAS also offers a new capability to exploit the spatial opportunity where the interference suffers from deep fades for multiuser communications, leading to new multiple access. This workshop aims to explore the new opportunities and address the unique challenges associated with the application of FAS

for 6G. It will serve as a platform for showcasing the latest research, innovations, and practical applications of FAS, thereby facilitating the integration of theoretical knowledge with real-world implementation.

Workshop Chairs
Hao Xu, Southeast University
Hanjiang Hong, University College London
Farshad Rostami Ghadi, University of Granada
Xusheng Zhu, University College London

Program

Keynote
Kai-Kit Wong, University College London

1 **Fluid Antenna System Combining Metasurfaces and Beamforming Antennas for Two by Two LOS-MIMO Mobile Communication Systems**
Dan Mohri, NTT DOCOMO, Inc.; Keisuke Sato, Takayoshi Sasaki, Yoshiki Shirasawa, DKK Co, Ltd.; Satoshi Suyama, NTT DOCOMO, INC.; Daisuke Murayama, NTT Access Network Service Systems Laboratories; Shoko Shinohara, Takeru Fukushima, NTT, INC.; Yuyuan Chang, Huiling Jiang, NTT DOCOMO, INC

2 **Energy Efficient Wireless Agent Networks (WAN) With Fluid Antenna System**
Yiting Wang, Jianxin Dai, Nanjing University of Posts and Telecommunications; Zhaohui Yang, Zhejiang University; Chen Zhu, Zhejiang Provincial Key Laboratory of Information Processing,; Zhouxiang Zhao, Siyun Liang, Zhejiang University; Yang Sun, CRSC Research Design Institute Group Co.,Ltd.,

Tuesday, 9 June 2026 14:00 - 17:30 Lympia A-2 and on Zoom (see https://icons-research-group.github.io/VTC2026-Spring-DTPI/)

W14: 3rd Workshop on Synergizing Digital Twins and Pervasive Intelligence for Next-Generation IoT/IoV

As the Internet of Things (IoT) and the Internet of Vehicles (IoV) evolve toward highly autonomous, hyper-connected, and intelligence-driven ecosystems, future networking, computing, and control infrastructures must support massive connectivity, high mobility, heterogeneous services, and ultra reliable low-latency communications. These requirements span diverse IoT/IoV scenarios, including connected and autonomous vehicles, intelligent transportation systems, roadside and aerial sensing, smart infrastructure, and edge-cloud collaborative environments. However, such systems face fundamental challenges arising from dynamic large-scale topologies, time-varying wireless conditions, intermittent connectivity, spectrum scarcity, ultra-dense deployments, and stringent safety and latency demands for mission-critical applications. Digital twins (DTs) have emerged as a powerful paradigm for managing the complexity of next-generation IoT/IoV systems by providing virtual representations of physical entities, networks, and processes. By continuously reflecting system states and environmental dynamics, DTs enable real-time monitoring, predictive analysis, and what-if evaluation across physical and virtual domains. Meanwhile, pervasive intelligence powered by artificial intelligence (AI) and machine learning introduces adaptive learning, reasoning, and autonomous decision-making capabilities distributed across devices, vehicles, edge nodes, and cloud platforms. The synergy between DTs and AI is particularly transformative. DTs provide rich, context-aware data and models for AI-driven training and inference, while AI enhances DTs through model adaptation, behavior prediction, anomaly detection, and automated control. This tight DT-AI coupling enables proactive and autonomous IoT/IoV operations, including intelligent resource management, context aware routing and scheduling, adaptive network slicing, cooperative perception and control, predictive maintenance, and resilient self-optimization, key enablers for future 6G-enabled IoT/IoV systems.

This workshop will bring together researchers and practitioners to explore advanced theories, system designs, and experimental implementations that synergize digital twins and pervasive intelligence for next-generation IoT/IoV. Emphasis will be placed on AI-native architectures, edge–cloud intelligence, 6G-enabled platforms, and practical testbeds, fostering interdisciplinary collaboration and accelerating innovation across IoT, IoV, and intelligent transportation ecosystems.

Workshop Organizers
Trung Q. Duong, Memorial University of Newfoundland
Tom Luan, Xi'an Jiaotong University
Mingzhe Chen, University of Miami

Program

Tuesday, 9 June 2026 14:00 - 15:30 Lympia A-2

Session 1

Keynote
Berk Canberk, Edinburgh Napier University

1 **A Digital Twin-Driven Intelligent Anti-Drone Platform with mmWave Phased Array Radar**
Haoming Li, Hui Liang, Yuzhou Xie, Yuzhou Chen, Zhihui Wu, Xianglong Wu, Xueqian Fang, Dongguan University of Technology

2 **UAV-Assisted Anti-Jamming Relay Design for Reliable Federated Learning in Mobile Networks**
Tongzhou Yang, Qihao Li, Jilin University; Hui Liang, Dongguan University of Technology; Xianhua Yu, Macau University of Science and Technology; Fengye Hu, Jixiang Wang, Jilin University

Tuesday, 9 June 2026 16:00 - 17:30 Lympia A-2

Session 2

Keynote
Trung Duong, Memorial University of Newfoundland

1 **Joint Optimization of Latency and Freshness for Digital Twin-Empowered Vehicular Edge Services**
Hao Xiong, Jiadong Yu, The Hong Kong University of Science and Technology (Guangzhou)

2 **PRISM: Physics-Radio Integrated Simulation and Management for V2X Digital Twins**
Chia-Chuan Chiu, Ming-Chun Lee, National Yang Ming Chiao Tung University; Yung-Sheng Chao, National Chiao Tung University; Li-Chun Wang, National Yang Ming Chiao Tung University

3 **Simultaneous Fare Authentication for Public Transit**
Aybüke Hacıhasanoğlu-Şanlımeşhur, Istanbul Technical University, Hanife Kübra Kaya, Işık University; Enver Ozdemir, Istanbul Technical University

Tuesday, 9 June 2026 9:00 - 17:30 Lympia C-1

W15: Intelligent Synergy of Sensing and Communications for Green IoT

In the era of large-scale IoT deployment and growing environmental awareness, Green IoT has become a cornerstone for sustainable digital transformation. Intelligent synergy between sensing and communications is essential to achieving low-carbon, energy-efficient, and adaptive IoT systems. As IoT expands into smart cities, precision agriculture, and industrial automation, harmonizing data perception (sensing) and transmission (communications) is increasingly critical. Key challenges include balancing sensing accuracy with ultra-low-power connectivity (e.g., Wi-Fi HaLow, NB-IoT, 6G NTN), ensuring interoperability across heterogeneous devices, optimizing data–energy trade-offs, and reducing lifecycle waste through modular and reconfigurable designs. Advances in semantic communications, edge intelligence, and AI-native integrated sensing and communication (ISAC) architectures are reshaping the landscape of sustainable IoT.

This workshop aims to explore next-generation frameworks that integrate sensing and communications for Green IoT. It emphasizes emerging technologies such as federated learning, reconfigurable intelligent surfaces (RIS), and energy-harvesting-enabled zero-energy IoT devices to enhance efficiency and sustainability.

Workshop Chairs
Chen Dai, Nanjing University of Posts and Telecommunications
Miao Liu, Nanjing University of Posts and Telecommunications
Kun Zhu, Nanjing University of Aeronautics and Astronautics
Bintao Hu, Xi'an Jiaotong-Liverpool University
Yiping Zuo, Nanjing University of Posts and Telecommunications

Papers

1 **Energy-Efficient AUV-Assisted Data Collection and Resource Allocation for MI-Based UWSNs in Obstacle Environments**
Ting Li, Yisheng Zhao, Changkun Wu, Tao Zhang, Shen Zhang, FuZhou University

2 **Error-Resilient Semantic Communication for Point Cloud Transmission over Packet-Loss Networks**
Shouye Lyu, Jincheng Dai, Beijing University of Posts and Telecommunications; Haotong Cao, Nanjing University of Posts and Telecommincations; Sixian Wang, Shanghai Jiao Tong University; Wenjun Xu, Ping Zhang, Beijing University of Posts and Telecommunications

3 **FLAG-IDS: A Federated Lightweight Attentive Granularity Intrusion Detection System for Low-Probability Attacks in IoV**
Xuhui Huang, Chang Liu, Zheng Xue, Guangdong University of Technology; Bintao Hu, Xi'an Jiaotong-Liverpool University; Lei Xu, China Mobile Communications Group Jilin Co., Ltd; Muhammad Umar Farooq Qaisar, Hangzhou International Innovation Institute of Beihang University; Guojun Han, Guangdong Uni of Technology

4 **Joint Beamforming Optimization and Dynamic Tracking in RIS-Enabled Secure ISAC Systems**
Weichun Zhao, Zhendong Li, Xi'an Jiaotong University; Zhou Su, Shanghai University, China; Yan Yang, Rocket Force University of Engineering; Xiaoyan Hu, Xi'an Jiaotong University; Jiakang Zheng, Beijing Jiaotong University; Wen Chen, Shanghai Jiao Tong Univ.

5 **Joint DOA Estimation and Communication: Nonlinear-Resilient CE-OFDM for ISAC Systems**
Yijia Cheng, Jianguo Li, Beijing Institute of technology; Bizheng Liang, China Academy of Space Technology; Peng Wang, Xuhui Ding, Xiangyuan Bu, Kai Yang, Beijing Institute of Technology

6 **Semantic Importance-Oriented NB-PC High-Reliability Transmission Scheme**
Baoxin Su, Shufeng Li, Junwei Zhang, Long Pang, Communication University of China

7 **Enhancing Real-Time Fall Detection on IoT Edge Devices via Bayesian Calibration of Fused MEMS Inertial Sensors and Temporal Convolutional Networks**
Siyuang Liang, Tong Yang, Jiahuan Fan, Xi'an University of Posts and Telecommunications; Yongxing Zheng, Xi'an Hackbutter Intelligent Technology Co., Ltd.

8 **Multi-priority Traffic Delay Analysis for Edge Intelligence in Industrial Internet of Things**
Song Li, Jie Li, Ruirui Chen, China University of Mining and Technology; Yajie Pang, Hainan College of Economics and Business; Peng Xu, Jiangsu Automation Research Institute

9 **Online Integrated Sensing-Computation-Communication Optimization for Emergency UAV Networks**
Zhagn Chi, China Telecom Research Institute

10 **Proactive Interval-aware Latency Monitoring and Anomaly Detection for IoT Networks Using SDN/P4**
Bong-Hwan Oh, Xi'an Jiaotong-Liverpool University

11 **A Virtual-Real Digital Twin Fusion Routing Algorithm for Robust Data Transmission in 6G SAGINs**
Lipei Sun, Nanjing University of Posts and Telecommunications; Hui, Zhang; Yuanji Shi, Zhongke Nanjing Mobile Communication & Computing Innovation Institute; Chunlin Chen, Wenshuo Huang, Nanjing University of Posts and Telecommunications

12 **Deep Reinforcement Learning for Accurate Sensing in NOMA-aided ISAC Systems**
Yuling Liu, Feng Ke, South China University of Technology; Guobin Zhang, Dongguan University of Technology; Tham Mau Luen, Universiti Tunku Abdul Rahman; Xiuyin Zhang, South China University of Technology

13 **Scene-Aware Hierarchical Fusion Positioning Method for 6G Passive IoT**
Renming Wang, Nanjing University of Posts and Telecommunications; Hui, Zhang; Yuanji Shi, Zhongke Nanjing Mobile Communication & Computing Innovation Institute; Chunlin Chen, Wenshuo Huang, Nanjing University of Posts and Telecommunications

14 **Semantic-Aware Quantum Wireless Sensing System with Rydberg Atomic Receivers**
Jiaqi Liu, Jianxin Dai, Nanjing University of Posts and Telecommunications; Zhaohui Yang, Zhejiang University; Chen Zhu, Zhejiang Provincial Key Laboratory of Information Processing,; Zhaoyang Zhang, Zhejiang University; Yang Sun, CRSC Research Design Institute Group Co.,Ltd.,

15 **VulnHunter: A Lightweight Automated Framework for Systematic XSS Vulnerability Discovery**
Baiquan Wang, Bin Hu, Jice Wang, Fannv He, Hainan University

Tuesday, 9 June 2026 14:00 - 17:30 Lympia B-2

W16: LPWAN-Based Terrestrial-Non-Terrestrial Integration for Vehicular Networks: AI-Driven Hardware Platforms, Testbeds, and 6G Directions

Modern vehicular communication networks are evolving rapidly under the pressure of increased connectivity demand, the pervasive use of IoT, edge AI integration, and ambitious visions for 6G. Simultaneously, non-terrestrial networks

(NTN), including LPWAN-based LEO/satellite links, are emerging as a promising solution for wide-area, low-power, resilient connectivity, especially in areas lacking terrestrial infrastructure. This workshop aims to bring together researchers and practitioners from the vehicular, IoT, satellite/NTN, edge-AI, and hardware communities to explore the convergence of these domains. Specifically, the workshop will focus on hardware platforms and testbeds that enable AI-driven vehicular networks integrated with terrestrial and non-terrestrial communication layers. It will highlight experimental deployments, proof-of-concept prototypes, challenges in mobility, latency, energy efficiency, cross-layer design, and discuss future research directions in 6G-era integrated vehicular-NTN systems. Through technical paper presentations, talks, demo presentations, and panel discussions, the workshop will foster cross-disciplinary collaboration, encourage novel contributions, and build momentum for research that realistically addresses the requirements and constraints of hybrid terrestrial-vehicular-satellite networks. The outcomes are expected to include design insights, research roadmaps, and potential collaborations for building next-generation vehicular networks leveraging both ground and space infrastructure.

Workshop Chairs
Nikumani Choudhury, BITS Pilani, Hyderabad Campus
Anakhi Hazarika, BITS Pilani, Hyderabad Campus
Moustafa Mazin Nasralla, Prince Sultan University
Haleem Farman, Prince Sultan University

Program

Keynote: Future Directions on Resource Constrained Edge Devices
Tamoghna Ojha, IIT (ISM) Dhanbad

1 **Empowering AI Towards 6G: Realistic UAV Channel Data Acquisition Using Open-Source Solutions**
Qiuheng Zhou, Sergiy Melnyk, German Research Center for Artificial Intelligence; Hans Schotten, University of Kaiserslautern; Robert Vilter, Nick Stuckert, Technical University of Applied Sciences Wildau

2 **Enhancing Learning Stability in Multi-Slice 6G O-RAN Resource Management Using Dueling Double Deep Reinforcement Learning**
Amandeep Kaur, Sujal Gupta, ABV Indian Insitute of Information Technology and Management Gwalior

3 **Footprint-Aware Security and Privacy Profiles for Connected Mobility over Hybrid Terrestrial-Non-Terrestrial Networks**
Muhammad Asghar Khan, Prince Mohammad Bin Fahd University

4 **Resilient Vehicular SLAM via NTN-Enabled Collaborative Loop Closure in 6G Networks**
Azam Rafique Memon, Prince Sultan University; Muddesar Iqbal, Dhafer Almakhles, Prince Sultan University, Riyadh, Saudi Arabia

5 **Spectrum Sharing and Interference Analysis for HAPS-Terrestrial Network Coexistence**
Xinyuan Cao, Ye Neng, Sirui Miao, Beijing Institute of Technology; Juan Liu, Wenjia Liu, Xiaolin Hou, DOCOMO Beijing Communications Laboratories Co., Ltd

6 **Wide Band MIMO Antenna Array for Vehicular Communications: Design and Performance Assessment**
Mehr E Munir, Haleem Farman, Moustafa Nasralla, Prince Sultan Uni

Tuesday, 9 June 2026 Online

W17: Near-Field Communications, Localization, and Sensing for 6G and Beyond

The emergence of 6G is changing the way wireless systems are designed. Extremely large antenna arrays, operation in mmWave and THz bands, and AI-native transceivers move practical systems into the near-field region, where traditional far-field assumptions no longer apply. In this regime, signals follow spherical wavefronts and depend strongly on both distance and angle, creating new opportunities to design systems that jointly deliver very high-capacity communication, high accuracy localization, and rich sensing of the surrounding environment.

This workshop provides a focused forum to discuss these developments with emphasis on near field communication–localization–sensing integration. It will cover near-field channel measurement and modeling, beamfocusing and waveform design, integrated sensing and communication (ISAC), near-field-enhanced positioning and mapping, the use of reconfigurable intelligent surfaces and metasurfaces, AI and machine learning based beam and resource management, and practical aspects such as energy-efficient hardware, secure positioning, and prototype implementations. It will be of interest to anyone working on future wireless systems, including applications such as extended reality, digital twins, connected vehicles, and autonomous systems that can benefit from the joint use of near-field communication, localization, and sensing in 6G networks.

Workshop Chairs
Emil Björnson, KTH Royal Institute of Technology
Özlem Tuğfe Demir, Bilkent University
Mustafa Ozger, Aalborg University & KTH Royal Institute of Technology
Ferdi Kara, Ericsson AB

Papers

1 **Predictive Analog Combining Assisted Near-Field Position and Orientation Tracking**
Lin Chen, The Chinese University of Hong Kong; Xiaojun Yuan, UESTC; Yingjun Zhang, Chinese University of Hong Kong

2 **Energy Efficiency Optimization for Near-Field Semantic Communication Systems**
Qimei Chen, Jianxin Dai, Nanjing University of Posts and Telecommunications; Zhaohui Yang, Zhejiang University

3 **Fast and Accurate Channel Estimation in IRS-assisted XL-MIMO Communication Networks**
Gopal Chamarthi, Adarsh Patel, Indian Institute of Technology Mandi; Rameshwar Pratap, Indian Institute of Technology Hyderabad

4 **UAV SAR Imaging with 5G NR OFDM Signals in NLOS Environments**
Qiuyuan Yang, Cunhua Pan, Southeast University; Ruidong Li, Shandong Yunhai Guochuang Innovative Technology; Zhenkun Zhang, Hong Ren, Southeast University; Changhong Wang, Jinan Maiwei Intelligent Technology; Jiangzhou Wang, Southeast Uni

Tuesday, 9 June 2026 9:00 - 12:30 Lympia A-3

W18: Next-Generation Movable and Reconfigurable Antennas for Wireless Networks

Next-Generation Movable and Reconfigurable Antennas (NGMRAs), encompassing movable antennas, fluid antennas, pinching antennas, holographic/metamaterial antennas, parasitic antennas, among others, are emerging as a key enabler for future wireless communication and sensing systems. Unlike traditional antenna architectures, NGMRAs offer dynamic control over antenna position, orientation, radiation pattern, frequency response, or polarization. These reconfigurabilities offer unprecedented spatial and electromagnetic degrees of freedom (DoFs), allowing systems to adapt to complex time-varying environments with enhanced flexibility and robustness. NGMRAs have demonstrated significant potential to improve spectral efficiency, spatial resolution, and transmission reliability, while also enabling novel paradigms such as integrated sensing and communication (ISAC) and intelligent environment-aware operation. There has been a notable surge in research and development activities dedicated to NGMRAs, with academic researchers, industrial practitioners, and government agencies investing significant resources in exploring their potential applications and capabilities, as can be seen from the steady increase in the number of related publications on platforms such as IEEE Xplore, arXiv, and others. Despite increasing attention, the NGMRA field is still in its early stages. Key challenges remain in antenna movement and reconfiguration optimization, performance analysis, hardware-software co-design, and experimental validation. There is an urgent need for a dedicated forum to consolidate recent advances and foster collaboration across disciplines such as antenna design, signal processing, electromagnetic theory, communications theory, sensing theory, and artificial intelligence. This workshop aims to bring together academic and industrial experts to share new findings, identify research gaps, and accelerate the practical deployment of NGMRA-enabled systems.

Workshop Co-chairs

Lipeng Zhu, Beijing Institute of Technology
Wenyan Ma, National University of Singapore
Xiaodan Shao, University of Waterloo
Qingqing Wu, Shanghai Jiao Tong University
Mingzhe Chen, University of Miami
Yuanwei Liu, The University of Hong Kong

Papers

1 **Nesterov-Optimised Subgrouping for Many-to-Many Multicast D2D Networks Assisted by Reconfigurable Intelligent Surfaces**
Adrija Bhaduri, NIT Silchar; Ranjay Hazra, Devendra Singh Gurjar, National Institute of Technology Silchar; Ekant Sharma, IIT Roorkee

2 **Rotating ULA-enabled Computed Tomography for Efficient 3D Spatial Power Spectrum Synthesis via Analog Receive Combining**
Haocheng Hua, The Chinese University of Hong Kong (Shenzhen); Weidong Mei, UESTC; Jie Xu, The Chinese University of Hong Kong, Shenzhen; Rui Zhang, National University of Singapore

3 **Joint Placement and Beamforming Optimization for Movable Antenna-Enhanced Multi-User Multi-Target ISAC System**
Dekai Zhao, Junling Li, Shiyu Xi, Shiyu Xiao, Cheng-Xiang Wang, Southeast University

4 **Movable Antenna Enabled Multi-Target Sensing: Performance Analysis and Optimization**
Haobin Mao, Beihang University; Lipeng Zhu, Beijing Institute of Technology; Wenyan Ma, National University of Singapore; Zhenyu Xiao, Beihang University

5 **Two-Timescale Optimization for MA-Aided Multiuser Communications Under Two-Wave with Diffuse Power Model**
Songqi Cao, Beihang University; Lipeng Zhu, Beijing Institute of Technology; Zhenyu Xiao, Haobin Mao, Zipeng Yang, Beihang Uni

6 **ISAC Using Continuous-Aperture Arrays over Fading Communication Channels**
Boqun Zhao, University of Alberta; Chongjun Ouyang, Queen Mary University of London; Xingqi Zhang, University of Alberta

7 **Coupler Position Optimization for Flexible Coupler Array Aided Low-Altitude Wireless Networks**
Xiaodan Shao, University of Waterloo; Chuangye Shan, Shell (Beijing) New Energy Technology Co., Ltd., China; Zhiyuan Zhai, Fudan University, China; Rupei Xu, The University of Texas at Dallas; Yunli Li, The Chinese University of Hong Kong, Shenzhen; Derrick Wing Kwan Ng, University of New South Wales

8 **Cellular-Connected UAV Communications Enhanced by Movable Antennas and Trajectory Design**
Tianshi Ren, Beijing Institute of Technology; Xianchao Zhang, Jiaxing University; Wenyan Ma, National University of Singapore; Lipeng Zhu, Xiaozheng Gao, Beijing Institute of Technology; Rui Zhang, National University of Singapore

9 **RIS-Aided Secure Downlink Transmission for Integrated Sensing, Energy, and Communication Systems**
Yichen Wu, Jianxin Dai, Cunzhen Liu, Linqing Gui, Nanjing University of Posts and Telecommunications

Tuesday, 9 June 2026 9:00 - 17:30 Lympia C-2

W19: Workshop on 5G&Beyond for Railways Challenges and Opportunities for Operational and Passenger Connectivity

As the railway industry strives to improve customer experience, quality, reliability, safety and security of railway systems, we observe ever increasing information flows between all stakeholders. This trend is accentuated by the latest development of autonomous and connected trains that will need high-performance communications technologies such as 5G and beyond. Some challenges for 5G & Beyond for railways include extreme mobility, robustness, reliability, high capacity everywhere, Non Terrestrial Networks (NTN), hybridization, spectral efficiency, radio resource scarcity, low latency, low energy consumption and resilience to interference. Safety and security are among the top requirements for railways, including cybersecurity.

Evaluating the performance of 5G-based systems and future 6G ones in the context of railway operation requires radio channel models for numerous environments and frequencies (900 MH and 1900 MHz) and also millimetric waves. Dedicated antennas need to be developed with adequate performance and placement. Innovative solutions at the network level are also needed: complex handover, scheduling aspects, as well as the incorporation of Software-Defined Networking (SDN) and/or Network Function Virtualization (NFV), hybridization with NTN, introduction of AI for optimization and prediction. 5G and Beyond architecture promises to deliver significant benefits, including but not limited to, improved service availability, increased reliability and higher throughput Capabilities of radio based ranging, localization and sensing is of interest in the railway domain to support future safety critical applications or serve as an additional source of information for existing systems. The Internet of Things is also a hot topic for railway in the context of diagnosis and predictive maintenance of both track and rolling stock. At the same time, a lot of developments are currently ongoing to support the development and deployment of the Future Railway Mobile Communication System (FRMCS). This workshop will enable researchers to present the latest results addressing the aforementioned challenges in the context of 5G & beyond for railways within the FRMCS landscape.

Workshop Organizers
Marion Berbineau, Université Gustave Eiffel
Paul Unterhuber, German Aerospace Center
Ke Guan, Beijing Jiaotong University

Papers

1 **5G for Railways Over Leaky Coaxial Cables: Experimental Validation on an FRMCS Testbed**
Hefdhallah Sakran, Chemnitz University of Technology; Shahab Ehsanfar, Technische Universität Chemnitz; Charbel Lahoud, Technische Universit¨at Chemnitz; Klaus Moessner, Technical University Chemnitz

2 **A Comprehensive Evaluation on Operational Connectivity for Future Railways Communications**
David Kule Mukuhi, Léo Mendiboure, Université Gustave Eiffel; Rami Langar, LIGM-CNRS, UPEM; Sylvain Cherrier, Marion Berbineau, Université Gustave Eiffel; Pierre Petton, SNCF; rodrigue Fargeon, SNCF-Réseau

3 **Channel Measurements in a Railway Environment for 5G-Based FRMCS Deployment**
Frédéric Munoz, Kai Mao, Université Gustave Eiffel; Raffaele Derrico, CEA-LETI; Chadli Hadji, Université Gustave Eiffel; Gilles Boistault, SNCF-Réseau; Marion Berbineau, Université Gustave Eiffel

4 **Cooperative Localization of Trains with Magnetic Field Measurements and Radio-based Ranging**
Benedikt Merk, Benjamin Siebler, Paul Unterhuber, Andreas Lehner, Stephan Sand, German Aerospace Center (DLR)

5 **Evaluating Edge Computing Deployment Options in Hybrid 5G-LEO Railway Communication Systems**
Léo Mendiboure, Mohamed Coulibaly, David Kule Mukuhi, Romain Dulout, Université Gustave Eiffel

6 **Low Earth Orbit Satellites and 5G Data Acquisition for Railway Applications**
Wael Cherif, Christophe Vitry, Veli Alperen Sezer, Hitachi Rail; Nerea Fernández Berrueta, CEIT; Pierre Le Corre, SNCF

7 **Queue-Aware Deep Reinforcement Learning for Joint Beam and Power Control in mmWave FRMCS**
Mohammad Javadi, Shahab Ehsanfar, Technische Universität Chemnitz; Klaus Moessner, Technical University Chemnitz

8 **Ray-tracing modelling and experimental evaluation of railway rural propagation channel**
Thierry Tenoux, Siradel; Yoann Corre, SIRADEL; Patrice Pajusco, IMT Atlantique; Ahmed Abdelghany, Jamaleddine Amghar, IMT-Atlantique, Lab-STICC UMRS 6285

9 **Train-to-Train Short Range Communication and Relative Localization based on IEEE802.15.4**
Paul Unterhuber, Martin Schmidhammer, Christian Gentner, Benedikt Merk, Benjamin Siebler, Andreas Lehner, Fabian de Ponte Müller, Ibrahim Rashdan, Dominik Egginger, German Aerospace Center (DLR)

10 **Experimental Evaluation of Multipath TQUIC for Mission-Critical Communications**
Pedram Delavari, Shahab Ehsanfar, Reza Moheimani, Klaus Moessner, Technical University Chemnitz

11 **RAT Switching Strategies and Link Recovery in a Three-Layer Pods4Rail Architecture**
Dereje Mechal Molla, Léo Mendiboure, Université Gustave Eiffel; Sassi Maaloul, Université de technologie de Belfort Montbéliard; Dingyang Liu, Marion Berbineau, Université Gustave Eiffel

12 **5G-R Channel Characterization based on Measurement-calibrated Ray Tracing at 2.16 GHz for Inside-Station and Viaduct Scenarios**
Shan Luo, Beijing Jiaotong University; Danping He, Beijing Institute of Technology; Lei Yang, Beijing jiaotong University; Jing Cao, Beijing Jiaotong University; Yueyao Liu, CRSC Research & Design Institute Group Co., Ltd.; Lei Han, China Railway Beijing Group Co.; Tingting Gao, CRSC Research & Design Institute Group Co., Ltd.; Ke Guan, Beijing Jiaotong University

13 **Measurement-Based Assessment of FRMCS Downlink Coexistence with 5G Band 1 Uplink**
Michael Meiseneder, Vienna University of Technology; Herbert Koblmiller, A1 Telekom Austria AG; Philipp Svoboda, TU Wien

14 **Physics-Aware Ka-band Satellite Channel Prediction for Remote Railway Communications**
Haobo Zhang, Beijing Jiaotong University; Chen Chen, National Key Laboratory of High-Speed Maglev Vehicle Technology; Dan Fei, LiuLiu, Bo Ai, Beijing Jiaotong University

15 **Adaptive Handover Optimization in High-Speed Rail Using Proximal Policy Optimization**
Xinhan Feng, Southwest jiaotong university; Yue Xiao, Southwest Jiaotong University; Heng Liu, Key Lab of Information Coding and Transmission; Liu Yang, Southwest Jiaotong University; Wei Chen, Beijing Jiaotong University; Zheng Ma, Southwest Jiaotong University

16 **Effect of Statistical Building Features on Railway Channels: Large-Scale Fading Characterizations**
Qingchi Qin, Nanjing University of Aeronautics and Astronautics; Kai Mao, Marion Berbineau, Université Gustave Eiffel; Mingqi Guo, Qiuming Zhu, Nanjing University of Aeronautics and Astronautics

Tuesday, 9 June 2026 14:00 - 17:30 Lympia A-3

W20: Workshop on Communication-Computing Co-Design for Energy-Efficient 6G Cloud-Edge Intelligence

Future 6G wireless networks are expected to support a wide range of intelligent services that rely on the tight integration of communication and computing across devices, edge nodes, and cloud infrastructures. As intelligence moves closer to

the network edge, wireless systems face increasing challenges related to energy consumption, latency, and resource limitations. Many platforms, including IoT devices, mobile terminals, aerial platforms, and non-terrestrial nodes, operate under strict power and bandwidth constraints, making energy-efficient system design a fundamental requirement. Recent advances in cloud-edge architectures, multi-access edge computing, and distributed intelligence provide new opportunities to coordinate communication and computation more effectively. Through such co-design, future wireless systems can better balance performance, responsiveness, and energy usage. This workshop aims to bring together researchers and practitioners to discuss architectures, algorithms, and system-level solutions that enable energy-efficient cloud-edge intelligence for 6G wireless networks.

Workshop Organizers
Zihang Song, Aalborg University
Tse-Tin Chan, The Education University of Hong Kong
Ming Xiao, KTH Royal Institute of Technology
Mengru Wu, Zhejiang University of Technology
Stephen Wang, VIAVI Solutions
Wanli Ni, Tsinghua University

Program

Tuesday, 17 June 2025 14:00 - 15:30 Lympia A-3

Keynotes

1 **Coping with Channel Fading in the Era of Edge AI"**
Kaibin Huang, The University of Hong Kong

2 **Semantic Communication-Computing-Learning Co-Design for Energy-Efficient Space-Air-Ground 6G Cloud-Edge Intelligence**
Vu Nguyen Ha, University of Luxembourg

Tuesday, 17 June 2025 16:00 - 17:30 Lympia A-3

Technical Session

1 **Dual-Timescale Position Optimization and User Association for Movable-Antenna HetNets**
Zongyuan Deng, Tianjun Wu, Bin Lyu, Nanjing University of Posts and Telecommunications; Yan Liu, Tongji University; Arumugam Nallanathan, Queen Mary University of London

2 **Cross-attention Empowered Personalization Federated Learning with Diagnosis Knowledge Distillation**
Haokai Yang, Xiaolan Liu, University of Bristol; Hui Zhou, Coventry University

3 **"Computing for Mechanics": Cross-Scale Joint Spatial-Semantic Optimization for 6G FAS-Enabled Embodied Agents**
Fangyue Shan, Jianxin Dai, Nanjing University of Posts and Telecommunications; Zhaohui Yang, Zhejiang University; Chen Zhu, Zhejiang Provincial Key Laboratory of Information Processing; Zhouxiang Zhao, Siyun Liang, Zhejiang University; Yang Sun, he CRSC Research Design Institute Group Co.,Ltd.,

4 **Pilot-Free Data Detection using a Coherent-MAC based Unified Network Coordinator in IoT HetNets**
Sk Md Shafique Anwar, Adarsh Patel, Indian Institute of Technology Mandi

5 **Resource Allocation Strategy for MEC-Assisted UWSN in Sea Wave Environments**
Changkun Wu, Yisheng Zhao, Ting Li, Shen Zhang, Tao Zhang, FuZhou University

Virtual Papers

1 **Multi-Agent Orchestration of Vision-Language Model for Critical Event Detection**
Ebenezer Acquah, Abdul-Qudus Fikewa Olatunji, Prairie View A&M University; Iris Qian, The University of Texas at Austin; Zhu Han, University of Houston; Daniel Mawunyo Doe, Prairie View A&M University

2 **Heterogeneous Multi-Agent Logistics Scheduling Under a Cloud-Edge Collaboration Architecture**
Haorong Guo, Ming Yan, Ling Lei, Communication University of China; Chunguo Li, Southeast University

Tuesday, 9 June 2026 9:00 - 15:30 Lympia D-1

W21: Workshop on Mission Critical and Emergency Communications

The advent of 5G and the prospect for 6G have paved the way for new applications in mission critical and emergency communications, including disaster monitoring/response, train/traffic controls and public safety. In scenarios such as natural disasters, large-scale accidents, extreme environments, or security threats, communication systems must remain highly reliable, resilient, low-latency, secure, and intelligent, even when conventional infrastructure is damaged, unavailable, or under attack. Emerging technologies such as AI-native wireless networks, ground-air-space integrated communications, satellite and High Altitude Platforms (HAPs)-based systems, high-accuracy positioning and sensing, and enhanced security are redefining how critical missions are supported. These technologies are essential for applications including disaster monitoring and rescue, public safety communications, autonomous vehicles and drones, train and traffic control, and navigation in GPS-denied or harsh environments.

Workshop Organizers
Jingqing Wang, Xidian University
Abderrahim Benslimane, Avignon University
Antonio Capone, Politecnico di Milano
Anirban Bhowal, NIT Rourkela
Lixin Li, Northwestern Polytechnical University
Hichan Moon, Hanyang University
Qinghe Du, Xi'an Jiaotong University
Wenchi Cheng, Xidian University

Program

1 **Efficient and Reliable Adaptive Packet Replication for Vehicular MPQUIC**
Takuma Tsubaki, Seiya Komatsu, Takashi Torii, Soto Anno, NTT, Inc.; Takuya Tojo, NTT Network Service Systems Laboratories

2 **Position Optimization of Multi-UAV Relaying Systems for Emergency Lossy Communications**
Ya Lian, Zixuan Qin, Dongwei Zhao, Wensheng Lin, Lixin Li, Wei Liang, Northwestern Polytechnical University

3 **Reliability Evaluation of 5G NR-V2X Sidelink Communication During Platoon Encountering in Urban Environments**
Kosuke Sanada, Kazuo Mori, Mie University; Manabu Mikami, SoftBank Corp.

4 **A Traffic-Aware Conditional Handover Scheme for Emergency Communication in Large-Scale LEO Satellite Networks**
Qianyao Li, Xi'an Jiaotong University; Tang Zhihua, Shanghai Satellite Network Research Institute Co., Ltd; Yichen Wang, Tao Wang, Peixuan Li, Xi'an Jiaotong University; Lingxiao Jiao, Shanghai Satellite Network Research Institute Co., Ltd.; Yueyue Zhang, Zhang Fang, Shanghai Satellite Network Research Institute Co. Ltd

5 **Effective Capacity Analysis for SAGIN-Enabled Emergency Communications**
Yinong Chen, Wenchi Cheng, Xidian University

6 **FPGA-Based Sampling Clock Impairments Emulator for Robustness Testing in Wide-band Emergency Communications**
Weishi Li, Yu Mao, Qiang Xu, Youxi Tang, University of Electronic Science and Technology of China

7 **Frequency Selection for Massive MIMO HF Skywave Systems for Emergency Communications**
Huibin Zhou, Li You, Hanzhi Gu, Southeast University; Xiang-Gen Xia, University of Delaware; Xiqi Gao, Southeast University

8 **Gravity-Inspired Causal Link Prediction for Reliability Enhancement in Emergency Wireless Networks**
Yiting Yang, Yongming Huang, Southeast University; Shiwen He, Central South University; Hang Zhan, Purple Mountain Laboratories; Siyi Chen, Realsil Microelectronics (Suzhou) Co., Ltd.; Zeyu Tan, Southeast University

9 **Residual-Energy-Driven SQRD Towards Low-Complexity Sphere Decoding in Emergency MIMO Communications**
Yuhao Zhang, Qinghe Du, Shijiao Zhang, Xi'an Jiaotong University

10 **Testbed-Driven Evaluation of Mission Critical Resilience for Remote Patient Monitoring Systems**
Vikas Tomer, Sachin Sharma, Mark Davis, Technological Uni Dublin

Tuesday, 9 June 2026 Online

W23: Distributed LLMs at the Edge: Communication, Computation, and Mobility Constraints

Large Language Models (LLMs) and foundation models are becoming central enablers for next-generation intelligent systems. However, their deployment in dynamic, mobile, and vehicular environments is severely constrained by fundamental communication–computation tradeoffs, energy budgets, latency requirements, and the need for on-device or near-edge inference. As vehicles, drones, and mobile robots increasingly rely on LLM-driven perception, reasoning, and interaction, the question of where and how these models are executed—on-board, at the edge, or collaboratively across multiple nodes—becomes critical.

This workshop brings together researchers at the intersection of edge computing, mobile/vehicular networking, distributed systems, and LLM architecture design. It focuses on the fundamental principles governing distributed LLM execution, model partitioning, semantic and compressed communication, context sharing under mobility, and adaptive resource allocation for LLM services in nonstationary environments. By bridging the communities of wireless communications, edge AI, distributed computing, and intelligent transportation, the workshop aims to establish a shared research agenda for enabling scalable, reliable, and efficient LLM-native intelligence across highly dynamic networks..

Workshop Organisers
Petros Elia, EURECOM
Roberto Morabito, EURECOM
Derya Malak, EURECOM

Papers

1 **SWARM-LLM: Collaborative Inference for Edge-based Small Language Models**
Mostafa Dahshan, Quazi Mamun, Tanmoy Debnath, Charles Sturt Uni

2 **LLM-Driven Design for QoS Prediction in Non-Terrestrial Networks**
Yi-Chieh Chao, Hong-Ruei Lin, Yu-Hsuan Su, Shao-Yu Lien, National Yang Ming Chiao Tung University; Kentaro Ishizu, NICT

3 **Distributed Training of Transformer-based Large Model in Wireless Networks via Tensor Parallelism**
Jiayang Xie, Yuchuan Ye, Fuzhou University; Youjia Chen, FZU; Ming Ding, Data61; Peng Cheng, La Trobe University

Tuesday, 9 June 2026 9:00 - 12:30 Lympia B-2

W24: OPERA-6G (Open and Programmable Research Infrastructures and Software for AI-Native 6G)

This workshop aims to provide a focused forum for researchers and practitioners working on open, programmable, and reproducible research infrastructures for next-generation wireless systems. As 6G research increasingly relies on AI-native radio access networks and software-defined architectures, experimental validation on real-world platforms has become essential, yet challenging.

This workshop emphasizes experimental research based on open-source wireless software and testbed infrastructures, with particular attention to OpenAirInterface (OAI) and related open-source RAN and core network platforms. OPERA-6G encourages contributions that go beyond simulations, highlighting hands-on experimentation, reproducible methodologies, and practical insights gained from deploying, extending, and evaluating AI-native and open RAN solutions. By bringing together the wireless research community, open-source developers, and infrastructure providers, OPERA-6G seeks to foster best practices, share lessons learned, and advance the state of experimental and reproducible research for 6G systems.

Workshop Organisers
Florian Kaltenberger, EURECOM
Jerome Haerri, EURECOM
Irfan Ghauri, OpenAirInterface Software Alliance
Camille Lerda, OpenAirInterface Software Alliance

Program

Keynote
Tommaso Melodia, Northeastern University

O-RAN and the P-RIC – Bringing Open RAN to the UE PC5 interface
Jerome Haerri, EURECOM

EMSTS-pos: AI-Driven Indoor Positioning with Enhanced Multipath Space-Time Structural Features with OpenAirInterface
Luhan Wang, BUPT

Keynote
Reinhard Wiesmayer, ETH Zürich

AI-Enhanced Fault Management for OAI High PHY
Terngyin Hsu, NCTU

From Spoofing to Trust: Emergency Alerts Spoofing Testbed and Cross-Cell Verification
Abdallah Abou Hasna, KAUST; Nada Chendeb, Lebanese University; Ammar El Falou, King Abdullah University of Science and Technology (KAUST)

VTC2026-Spring Technical Papers

Wednesday 10 June 2026

Wednesday, 10 June 2026 11:00 - 12:30 Lympia A-1

1A: Beam Forming

1 Hierarchical Deep Reinforcement Learning Based Joint Hybrid Beamforming and Resource Allocation for Multi-User Massive MIMO-OFDM Networks
Peixuan Li, Dichen Jiu, Yichen Wang, Xi'an Jiaotong University

2 Measurement-Based Evaluation of Beam Selection Strategies in 5G under Diverse Configurations
Ivana Radojevic, Mariam Mussbah, Markus Rupp, Philipp Svoboda, TU Wien

3 Resource Scaling in B5G Beam Management
Olga Galinina, Sergey Andreev, Tampere University; Robert Heath, University of California San Diego

Wednesday, 10 June 2026 11:00 - 12:30 Lympia A-2

1B: MIMO 1

1 PAPR Reduction Using Null Space in MIMO Channel When Channel Estimation Error Exists
Risa Kubota, Tokyo University of Science; Satoshi Suyama, NTT DOCOMO, INC.; Satoshi Nagata, NTT DOCOMO INC.; Kenichi Higuchi, Tokyo University of Science

2 Fronthaul-Efficient and Low-Complexity Uplink Multi-User MIMO Reception Method in O-RAN Base Station
Asuka Kakehashi, Daichi Shirase, Takanobu Doi, Toshiki Takeuchi, Kazushi Muraoka, NEC Corporation

3 New Sum Rate Maximization Beamformer Designs for the Multi-stream MxN MIMO X Channel
Yen-Ting Lin, Guan-Yi Wu, National Chung Hsing University; Chiao-En Chen, National Chung Hsing Univerity

4 A Two-Stage RIS-SMBM MIMO Symbol Detection
Meng-Ting Weng, Hoang-Yang Lu, Mao-Hsu Yen, National Taiwan Ocean University; Jiann-Horng Chen, National Taipei University

Wednesday, 10 June 2026 11:00 - 12:30 Lympia A-3

1C: UAV Communications 1

1 MADRL-Based NOMA Uplink Power Allocation and UAV Trajectory Design in 6G SAGIN
Yi-Huai Hsu, Zi-Jun Wei, Zhun-Sheng Chen, Chih-Chi Chang, Yuan Ze University

2 ZT-SLICE for 5G UAV Control: Cross-Layer Isolation, Continuous Authentication, and Policy Enforcement
Quazi Mamun, Charles Sturt University; Tu Dac ho, Kashif Mehmood, Norwegian University of Science and Technology; Zhenni Pan, Waseda University

3 Channel Knowledge Map-Assisted Handover Scheme for Cellular-Connected UAVs
Juntao Huang, Wanlu Zhang, Chenhui Tao, Jingjing Luo, Fu-Chun Zheng, Harbin Institute of Technology (Shenzhen)

4 Interference-Aware Joint Trajectory and Resource Optimization for Replacement Control in Multi-UAV Networks
Kai Maruo, Tatsuaki Kimura, Doshisha University

5 DQN-Based Joint UAV Trajectory and Association Planning in NTN-Assisted Networks
Afsoon Alidadi Shamsabadi, Cosmas Mwaba, Carleton University; Thomas Nugent, Honeywell; Jie Gao, Pablo Madoery, Halim Yanikomeroglu, Carleton University; Subhadeep Pal, Honeywell

Wednesday, 10 June 2026 11:00 - 12:30 Lympia B-1

1D: Authentication

1 Physical Layer Authentication with Channel Knowledge Maps in Indoor Environments
Luca Bonaventura, Francesco Ardizzon, Stefano Tomasin, University of Padova

2 A Dirichlet-Based Zero Trust Model for Selective Authentication in 6G Networks
Ngoran Magnuss Dufe, Abderrahim Benslimane, Universitè d'Avignon et des Pays du Vaucluse; Franklin Tchakounte, University of Ngaoundere; Charles Kamhoua, DEVCOM Army Research Laboratory; Adel Sharar Aldalbahi, King Faisal University

3 Lightweight Security for Private Networks: Real-World Evaluation of WireGuard
Hubert Djuitcheu, Andrew Sergeev, Adtran Networks SE; Khurshid Alam, DFKI; Danny Santhosh, Achim Autenrieth, Adtran Networks SE; Jochen Seitz, Technische Universität Ilmenau

4 Group Authentication for Privacy-Preserving Federated Learning
Oylum Gerenli, Istanbul Technical University; Leyli Karacay, Ericsson Research; Enver Ozdemir, Istanbul Technical University

5 DRL-Based Adaptive Security Policy Selection Using ASCON for Software-Defined Vehicles
Harrison Kurunathan, CISTER Research Centre; Hazem Ismail Ali, Halmstad University; Radha Reddy, Manipal Institute of Technology; Mohamed Eldefrawy, Halmstad University; Eduardo Tovar, CISTER Research Centre

Wednesday, 10 June 2026 11:00 - 12:30 Lympia B-2

1E: Advanced Coding & Transmission 1

1 Power allocation for short blocklength Sparse Regression Codes over non-coherent channels
Sai Dinesh Kancharana, VSV Sandeep, Arun Pachai Kannu, Indian Institute of Technology, Madras

2 Efficient Hardware Implementations of Block Serial LDPC Decoders for 2x-LDPC Codes of Wi-Fi 8
Soonwoo Choi, Jonghyun Baik, Chaewoon Park, Eunyoung Seo, Junyoung Jeong, Samsung Electronics

3 Impact of Transmission Modes and Synchronization on DECT-2020 NR Network Performance
Isitha, Andrey Samuylov, Dmitri Moltchanov, Tampere University; Juho Pirskanen, Jussi Numminen, Wirepas Oy; Mikko Valkama, Tampere University

4 Implementation and Evaluation of Multipath QUIC Scheduling Using Predicted Network Quality
Takashi Torii, Takuma Tsubaki, Seiya Komatsu, Nobuhiro Azuma, NTT, Inc.; Takuya Tojo, NTT Network Service Systems Laboratories

5 **Stochastic-Geometry-aided Performance Analysis in AMR-to-AMR Communications under Task-Induced Obstructed LoS Blockages**
Takeshi Hirai, The University of Osaka; Tutomu Murase, Nagoya University; Yusheng Ji, National Institute of Informatics

Wednesday, 10 June 2026 11:00 - 12:30 Lympia B-3

1F: Sensor Networks

1 **Mission-Aware QoS for Multi-UAV-Aided Wireless Powered Sensor Networks**
Shuwei Qiu, Hanshan Normal University; Yiu-Wing Leung, Hong Kong Baptist University

2 **Enabling Error-Resilient Decoding in Wake-up Radio: Design, Implementation, and Experiments**
Kenneth Østerhus, Svein Andreas Valland, Geir Jevne, Frank Y. Li, University of Agder

3 **Long-term useful data rate optimization of batteryless devices powered by intermittent energy sources**
Alexis Vilain, Rim El-Achi, Jean-François Diouris, Guillaume Andrieux, Sébastien Pillement, Nantes Université

4 **Large Language Models for Temporal Sensor Networks: Graph-Constrained Multi-LLM Ensembles via Structural Causal Models**
Franck Junior Aboya Messou, Zihan Zhao, Jinhua Chen, Shilong Zhang, Tong Liu, Weiyu Wang, Keping Yu, Hosei University

5 **Real-Time State Monitoring via Linear Estimation for Wide-Sense Stationary Processes**
Ken Miyamoto, University of Osaka; Yoshiaki Inoue, Tetsuya Takine, Osaka University

Wednesday, 10 June 2026 11:00 - 12:30 Lympia C-1

1G: Satellite Networks 1

1 **Deterministic Delay Guarantees in LEO Satellite Constellations Using Network Calculus**
Ahlem Mifdaoui, University of Toulouse; Oana Hotescu, ISAE-SUPAERO, University of Toulouse; Jérôme Lacan, ISAE-SUPAERO; Thierry Leydier, Virtualité Réelle

2 **AGAT-SC: Adaptive Graph Attention Network-based Spectral Clustering Algorithm for LEO Satellite Networks**
Jiahui Wang, Yaqiong Liu, Shijie Zhang, Beijing University of Posts and Telecommunications

3 **Multi-Domain Resource Awareness Based on FTAoI for Heterogeneous Satellite Networks**
Jin Zhang, Xuxin Zhang, Jiachen Sun, Kai Liu, Linling Kuang, Jianhua Lu, Tsinghua University

4 **ISL-Assisted Handover Design for LEO Non-Terrestrial Networks**
Kuang-Hsun Lin, National Yang Ming Chiao Tung University; Hsin-Wei Chen, Hung-Yu Wei, National Taiwan University

5 **Optical Inter-Satellite Link-Assisted LEO Satellite Communication Networks: Outage Analysis**
Vinay Mohan, Wonjae Shin, Korea University; Aashish Mathur, Dushyant Bhaskar, Indian Institute of Technology Jodhpur

Wednesday, 10 June 2026 11:00 - 12:30 Lympia C-2

1H: Testbeds and Proof-of-Concepts 1

1 **RFNoC-Based FPGA Offloading for Fully Programmable PHY Acceleration**
Ahmet Oguz Kıslal, Osman Mert Yilmaz, Bengü Bilgiç Keskin, İbrahim Hökelek, TÜBİTAK BİLGEM; Ali Gorcin, Istanbul Technical University

2 **Wi-Fi Sensing for Occupancy Detection in Aircraft Cabins**
Muhammad Nasar Jamal, University of Klagenfurt; Enrique Caballero, Klagenfurt University; Dominic Schupke, Airbus; Christian Bettstetter, University of Klagenfurt

3 **Experimental Study of End-to-End (E2E) Performance for Multi-Vendor 5G Open RAN Systems in Indoor and Outdoor Urban Environments**
Farhad Mehran, Charles Turyagyenda, Dritan Kaleshi, Digital Catapult

4 **Enhancing Container Port Operations: Performance Evaluation of Private 5G Standalone Network**
Miguel Villanueva Fernandez, Aalborg University; O. S. Peñaherrera-Pulla, University of Malaga; Alejandro Ramírez-Arroyo, Aalborg University; Karsten H. Soerensen, APM Terminals Aarhus; Preben Mogensen, Aalborg University

5 **Software Radio-based Laboratory Experiment of Blind Adaptive Array Interference Suppression for LTE-WLAN Spectrum Superposing**
Takeshi Kazama, Kotaro Fukue, Tokyo University of Science; Hideya So, Kogakuin University; Kazuki Maruta, Tokyo University of Science

Wednesday, 10 June 2026 11:00 - 12:30 Lympia D-1

1I: Digital Twins

1 **AoA-based V2X Localization with Robust Batch Initialization and Extended Kalman Filter in Urban Digital Twin**
Jin Nakazato, Kazuki Maruta, Mikio Hasegawa, Yuki Sasaki, Tokyo University of Science; Rui Dinis, Universidade Nova de Lisboa

2 **Ray Tracing-Enabled Digital Twin for RIS Phase Optimization: Implementation and Experimental Validation**
Ömer Lütfü Karakelle, Sefa Kayraklık, İbrahim Hökelek, TÜBİTAK BİLGEM; Ali Gorcin, Istanbul Technical University; Halim Yanikomeroglu, Carleton University

3 **RadioVLM: Vision-Language Model for Accurate and Efficient Radio Map Prediction**
Yuxuan Li, Southeast University; Kunyang Sun, China University of Mining and Technology; Zhenyu Tao, Southeast University; Wen Wang, Purple Mountain Laboratories; Yongming Huang, Xiaohu You, Southeast University

4 **Advancing Network Digital Twin Frameworks for Generating Realistic Datasets**
Oscar Stenhammar, KTH Royal Institute of Technology; Sundeep Rangan, New York University; Gabor Fodor, Ericsson Research; Carlo Fischione, KTH

5 **Base Station Failure Recovery with Limited Learning-Based Model Queries**
Qasim Haidari, Aalto University; Dariush Salami, Martti Moisio, Nokia Bell Labs, Espoo, Finland; Mikko Aleksi Uusitalo, Nokia Bell Labs; Olav Tirkkonen, Aalto University

Wednesday, 10 June 2026 14:00 - 15:30 Lympia A-1

2A: Channel Modeling & Estimation

1 **Fundamental Energy Efficiency and Spectral Efficiency Limit for Machine-Type Communications**
Jean-Marie Gorce, CITI Laboratory, INRIA; Shashwat Mishra, INSA Lyon; Chung Shue Chen, Bell Labs, Nokia; Lou Salaun, Nokia Bell Labs

2 **A Robust Parallel Subspace-Based Method for Delay-Doppler Estimation of OTFS Systems**
Liangchen Sun, Yutaka Jitsumatsu, Kyushu University

3 **Position-Aided Two-Stage Doppler Frequency Offset Estimation for Millimeter-Wave 5G NR In Ultra-High-Speed Moving Scenarios**
Xinyu Li, Dan Fei, Beijing Jiaotong University; Yi Tian, National Key Laboratory of High-Speed Maglev Vehicle Technology; Peng Zheng, Yuyang Liu, Beijing Jiaotong University; Chen Chen, National Key Laboratory of High-Speed Maglev Vehicle Technology; Bo Ai, Beijing Jiaotong University

4 **Tensorial Hankelization for 2-D DOA Estimation with Multiple Coherent Sources**
Fei Cheng, Jintao Wang, Hang Liu, Shaodan Ma, University of Macau

5 **Data-Oriented Noncoherent Transmission Based on Short-Reference Differential Chaos Shift Keying**
Handan Yakın, Mehmet C. Ilter, Tampere University; Paschalis Sofotasios, Khalifa University and Tampere University; Ranjan K. Mallik, Indian Institute of Technology Delhi; Mikko Valkama, Tampere University

Wednesday, 10 June 2026 14:00 - 15:30 Lympia A-2

2B: MIMO 2

1 **Smooth Penalty Detection Methods for Quantized and Distributed Massive MIMO Systems**
Qiqiang Chen, Zheng Wang, Yongming Huang, Southeast University; Tony Q.S. Quek, Singapore University of Technology and Design

2 **Beam Structured Turbo Channel Estimation for Massive MIMO-OFDM Systems**
Siyuan Ni, Southeast University; Ding Shi, Purple Mountain Laboratories; Linfeng Song, Xiqi Gao, Southeast University

3 **Unified Cramér-Rao Bound for Near-Field Localization in Modular XL-MIMO Systems**
Xiufeng Qian, Yijin Pan, Southeast University; Anzheng Tang, The Hong Kong University of Science and Technology; Junbo Wang, Southeast University; Yijian Chen, ZTE Corporation, Shenzhen, China; Yu Hongkang, ZTE Corporation; Jiangzhou Wang, Southeast University

4 **Antenna Selection Aided Blind Uplink Interference Suppression for Cell-Free Massive MIMO Systems**
Kotaro Fukue, Takeshi Kazama, Kazuki Maruta, Tokyo University of Science

5 **Interference Management in Wideband Cell-Free MIMO via Joint RSMA Beamforming and Subcarrier Assignment**
Pan Zhou, Yuanmeng Song, Jiafei Fu, Pengcheng Zhu, Southeast University

Wednesday, 10 June 2026 14:00 - 15:30 Lympia A-3

2C: UAV Communications 2

1 **Escaping from the Shadow: Bottleneck-Aware UAV Placement for High-Throughput Relaying**
Dongrak Choi, Seoul National University; Yongjae Yoo, Samsung Electronics; Yubin Choi, Seoul National University; Jeongyeup Paek, Chung-Ang University; Saewoong Bahk, Seoul National University

2 **Robust Sensor-less Beam Tracking for UAV mmWave Communications: An Innovation-Based Adaptive EKF Approach**
Yuandi Sun, Southeast University; Yunhui Yuan, Purple Mountain Laboratory; Zaichen Zhang, Southeast University

3 **DGAC: Distributed Graph Attention Coordination for Energy-efficient Collaborative Beamforming in UAV Networks**
Wangliang Cui, Yao Shi, Yunxu Sun, Harbin Institute of Technology (Shenzhen); Jie Deng, PengCheng Laboratory

4 **Robust Precoding with UAV Motion Uncertainty for HF Skywave Massive MIMO**
Hengzhi Bai, Chen Sun, Southeast University; Haichao Wang, Army Engineering University of PLA; Xiqi Gao, Southeast University

Wednesday, 10 June 2026 14:00 - 15:30 Lympia B-1

2D: Security and Privacy

1 **Achieving Covertness in HARQ-Based URLLC via Optimized Power Allocation**
Songhu Ge, Xiao Liang, Shengmin Dai, Zhongpu Cui, Yu Guo, Yedi Xin, Jinling Xing, Naval University of Engineering

2 **Joint Beamforming Design for Covert Transmission in NOMA-ISAC Network**
Huaqing Yang, Dongdong Li, Hu Wang, Harbin Institute of Technology; Guan Gui, Nanjing University of Posts and Telecommunications; Zhutian Yang, Harbin Institute of Technology

3 **Secrecy Performance Analysis in FD Relay-Assisted ISAC Systems Under Dual Eavesdropping Threats**
Claire Naiga Serugunda, Angela Doufexi, Robert Piechocki, University of Bristol

4 **The Price of Transparency: Re-identification Risks in Publicly-Logged Vehicular Communications**
Houssam Derfoufi, Victor Carpentier, Marina Dehez-Clementi, ISAE-SUPAERO, Université de Toulouse

5 **Hierarchical and Communication-Efficient Federated Learning with Dynamic Client Selection and Unlearning for Connected Vehicles**
Weiyu Wang, Hosei University; Xiuheng Liao, University of Aizu; Zhuotao Lian, Kyushu University; Franck Junior Aboya Messou, Hosei University; Buzhen He, Lanzhou University of Technology; Keping Yu, Hosei University; Shahid Mumtaz, Institute of Telecommunications

Wednesday, 10 June 2026 14:00 - 15:30 Lympia B-2

2E: Advanced Coding & Transmission 2

1 **A Study on Noncoherent Communication Method Based on Quantum Operators**
Nanami Yamamoto, Joe Asano, Naoki Ishikawa, Yokohama National University

2 **Eigenvalue-Based AP Selection with Joint Power and Beamforming Optimization in Cell-Free Networks**
Prabhat Gupta, University of Coimbra; Marco Gomes, Instituto de Telecomunicações - University of Coimbra; Rui Dinis, Universidade Nova de Lisboa; Akshay Jain, Nokia Bell Labs; Marko Beko, Instituto Superior Técnico, Universidade de Lisboa/COPELABS

3 **Low-Complexity Hierarchical Rate Splitting with Null Space Projection Based Precoding Design**
Hanlin Zhang, Shuping Dang, Simon Armour, University of Bristol

4 **Optimization of Receiver Buffer Control for Reducing Delay and Jitter in E2E Communication**
Ibuki Ikeda, Tokyo University of Science; Koji Oshima, Homare Murakami, Atsushi Wakayama, Kazuo Ibuka, National Institute of Information and Communications Technology; Jun Hwan Huh, Tokyo University of Science; Maki Arai, Shibaura Institute of Technology; Jin Nakazato, Mikio Hasegawa, Tokyo University of Science

Wednesday, 10 June 2026 14:00 - 15:30 Lympia B-3

2F: Transceiver & Receiver Techniques

1 **Geometry Accelerated Distributionally Robust Training for Deep Modulation Classification**
Shile Ni, Southeast University; Xiang Zhang, Nanyang Technological University; Jiaqi Li, Yinfei Xu, Tao Guo, Xiaoyu Zhao, Southeast University

2 **A Unified LLM-Based RIS Joint Precoding Framework with Practical Phase-Shift Models**
Haochen Li, Linglong Dai, Tsinghua University

3 **Graph Attention-Augmented Approximate Message Passing for OTFS Signal Detection**
Qianyi Chen, Southeast University; Xingyu Zhou, National Mobile Communications Research Laboratory; Hengtao He, Jing Zhang, Southeast University; Chao-Kai Wen, National Sun Yat-Sen University, Taiwan; Xiao Li, Southeast University; Shi Jin, Southern University

4 **Reduced-Complexity Multi-Tap Time-Domain Precoding via Deep Unfolding**
Soma Kato, Yokohama National University; Hiroki Iimori, Yuto Hama, Chandan Pradhan, Szabolcs Malomsoky, Ericsson Research; Naoki Ishikawa, Yokohama National University

5 **Learnable Pilot Design for OFDM-based Deep Joint source-channel Coding**
Joohyun Shin, Jiwan Seo, Joonhyuk Kang, Korean Advanced Institute of Science and Technology

Wednesday, 10 June 2026 14:00 - 15:30 Lympia C-1

2G: Satellite Networks 2

1 **Blind estimation of OTFS parameters and blind classification of OTFS-OFDM waveforms for satellite-based intelligence**
Sylvain Comtet, Equans INEO Défense; Sébastien Houcke, Francois-Xavier Socheleau, IMT Atlantique; Sylvain Merlet, Equans INEO Défense

2 **DQN-based Sequential Control of Bundle Transfer Order in Relay-Assisted LEO Satellite Constellation Collaboration Systems**
Ryohei Chiba, Hiroaki Hashida, Yuichi Kawamoto, Nei Kato, Tohoku University; Yohei Hasegawa, Masayuki Ariyoshi, NEC Corporation

3 **Cost-Efficient GBS Sector Selection for Low-Altitude Communication Network**
Pengcheng Sun, Southeast University; Qin Si, China Mobile Group Design Institute Co., Ltd.; Hong Shen, Southeast University; Siqi Tang, Beijing University Of Technology; Sirui Wu, Southeast University; Bo Peng, China Mobile Group Design Institute Co., Ltd.; Hailiang Lu, Southeast University; Songtao Gao, China Mobile Group Design Institute Co., Ltd.; Wei Xu, Southeast University; Qixuan Zhang, China Mobile Group Design Institute Co., Ltd.

4 **Joint Beamforming and Illumination Pattern Design for Beam-Hopping LEO Satellite Communications with Per-Antenna Power Constraints**
Tingting Xiao, Yuhao Zhang, Lianming Li, Southeast University; Fu-Chun Zheng, Harbin Institute of Technology (Shengzhen) & The University of York; Mingli Dong, State Key Laboratory of Satellite Network, Shanghai, China; Yu Liang, Qi Hao, Shanghai Satellite Network Research Institute Co., Ltd.

5 **Transformer-Enhanced SAC for Joint Power-Frequency Allocation in HTS Systems**
Yuwei Min, Gaofeng Nie, Tian Hui, Beijing University of Posts and Telecommunications

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2H: Testbeds and Proof-of-Concepts 2

1 **AutoMute: A Friendly Jammer Solution for Vehicle Data Privacy**
Matteo Varotto, University of Padova; Hannah Noettgen, Darmstadt University of Applied Sciences; Stefano Tomasin, University of Padua; Cristoph Krauss, Stefan Valentin, Darmstadt University of Applied Sciences

2 **Open-Source Based and ETSI Compliant Cooperative, Connected, and Automated Mini-Cars**
Lorenzo Farina, University of Bologna; Federico Gavioli, Salvatore Iandolo, Francesco Moretti, University of Modena and Reggio Emilia; Giuseppe Perrone, Politecnico di Torino; Matteo Piccoli, University of Bologna; Francesco Raviglione, Marco Rapelli, Politecnico di Torino; Antonio Solida, Paolo Burgio, Carlo Augusto Grazia, University of Modena and Reggio Emilia; Alessandro Bazzi, University of Bologna

3 **Cooperative Robotics Reinforced by Collective Perception for Traffic Moderation**
Mohammad Khoshkdahan, John Pravin Arockiasamy, Andy Flores Comeca, Alexey Vinel, Karlsruhe Institute of Techology

4 **Predicting Networks Before They Happen: Experimentation on a Real-Time V2X Digital Twin**
Roberto Pegurri, Politecnico di Milano; Habu Shintaro, Institute of Science Tokyo; Francesco Linsalata, Politecnico di Milano; Kui Wang, Tokyo Institute of Technology; Tao Yu, Institute of Science Tokyo; Eugenio Moro, Politecnico di Milano; Maiya Igarashi, Institute of Science Tokyo; Antonio Capone, Politecnico di Milano; Kei Sakaguchi, Tokyo Institute of Technology

5 **A Multi-Modal UWB-Radar-Camera Dataset for Vulnerable-Road-User Sensing at Urban Intersections**
Fabian de Ponte Müller, German Aerospace Center (DLR); Mouhamed Aghiad Raslan, Dortmund University of Applied Sciences and Arts; Mingyu Liu, Technical University of Munich; Christos Oikonomopoulos, IMST GmbH; Martin Schmidhammer, Ibrahim Rashdan, Benedikt Merk, German Aerospace Center (DLR); Reinhard Kulke, IMST GmbH; Leah Strand, Venkatnarayanan Lakshminarasimhan, Technical University of Munich; Tobias Ulrich, Andreas Becker, Dortmund University of Applied Sciences and Arts; Stephan Sand, German Aerospace Center (DLR); Alois Knoll, Technische Universität München

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2I: Autonomous Driving

1 **Relationship-Based Factor Estimation for Remote Monitoring Degradation in Autonomous Driving**
Seiya Komatsu, NTT; Taichi Kawano, NTT Network Service Systems Laboratories; Takuma Tsubaki, NTT, Inc.; Takuya Tojo, NTT Network Service Systems Laboratories

2 **AI-Assisted Maneuver Coordination for Connected and Automated Vehicles**
Diego Gasco, Politecnico di Torino; Rafael Molina-Masegosa, Miguel Sepulcre, Universidad Miguel Hernandez de Elche (UMH); Claudio Casetti, Politecnico di Torino; Javier Gozálvez, Universidad Miguel Hernandez de Elche (UMH)

3 **When Cooperation Should End: Maneuver Coordination Cancellation for Connected Automated Driving**
Rafael Molina-Masegosa, Universidad Miguel Hernandez de Elche (UMH); Sergei S. Avedisov, Toyota North America R&D - InfoTech Labs; Miguel Sepulcre, Universidad Miguel Hernandez de Elche (UMH); Onur Altintas, Toyota Motor North America R&D; Javier Gozálvez, Universidad Miguel Hernandez de Elche (UMH)

4 **DRIVE: Dynamic Residual Information Exchange for Communication-Efficient Collaborative Perception in Autonomous Driving**
Vardan Vardanyan, Zhisheng Niu, Sheng Zhou, Tan Chen, Tsinghua University

5 **Semantic Communication Empowered Asynchronous Collaborative Perception**
Chengli Yu, Guowei Liu, Southeast University; Chongtao Guo, Shenzhen University; Le Liang, Southeast University; Shi Jin, Southern University

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3A: Encoder & Decoder Techniques 1

1 **Subband Variable Step-size LMS based Nonlinear Digital Interference Canceller**
Zhongpu Cui, Yedi Xin, Naval University of Engineering

2 **Sparse Precoding Codebook Design for Limited Feedback Uplink Scenarios**
Joe Asano, Yokohama National University; Yuto Hama, Hiroki Iimori, Chandan Pradhan, Szabolcs Malomsoky, Ericsson Research; Naoki Ishikawa, Yokohama National University

3 **Secure Dynamic Directional Modulation via Antenna Partitioning and Symbol-Level Precoding**
Jules Burgat, Jean-Baptiste Doré, Université Grenoble Alpes (CEA-LETI); Joumana Farah, INSA Rennes; Matthieu Crussière, Institute of Electronics and Telecommunications of Rennes

4 **Sparse Nonlinear Digital Self-Interference Cancellation for Full-Duplex Radios**
M. Hossein Attar, Technische Universität Berlin; Ramez Askar, Jochen Fink, Slawomir Stanczak, Fraunhofer Heinrich Hertz Institute

5 **Sparse Neural Network-Based Nonlinear Distortion Compensation with Bandwidth-Limited Training for Satellite Communication Receivers**
Osamu Hasegawa, Masaaki Tanio, Masayuki Ariyoshi, NEC Corporation

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3B: MIMO 3

1 **Grassmann Quantization for Time-Domain Precoding in Multi-User MIMO-OFDM Communications**
Kazuki Tanaka, Yokohama National University; Hiroki Iimori, Yuto Hama, Chandan Pradhan, Szabolcs Malomsoky, Ericsson Research; Naoki Ishikawa, Yokohama National University

2 **Repeater-Aided Over-the-Air Phase Synchronization in Distributed MIMO**
Unnikrishnan Kunnath Ganesan, Ericsson AB; Sai Subramanyam Thoota, Nokia Standards; Erik G. Larsson, Linköping University

3 **Joint Precoding and Folding-Angle Optimization for Foldable Antenna Arrays in Massive MIMO**
Ziran Wang, Southeast University, China; Chen Sun, Southeast University; Xiqi Gao, Southeast University, China

4 **Frequency-Aware Tensor Learning for Statistical Channel Fingerprint Construction in Massive MIMO**
Zhenzhou Jin, Li You, Southeast University; Xiang-Gen Xia, University of Delaware; Xiqi Gao, Southeast University

5 **Physically constrained unfolded multi-dimensional OMP for large MIMO systems**
Nay Klaimi, Luc Le Magoarou, Philippe Mary, INSA Rennes; Clément Elvira, Centrale Supelec

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3C: UAV Communications 3

1 **Communication-Driven Exploration and Decentralized Coordination for UAV-Assisted 6G Networks**
Han Zeng, Zongyuan Li, Luhao Fan, Haibo Wang, Zaichen Zhang, Southeast University

2 **Evaluating Deep Reinforcement Learning Robustness for Fixed-Wing Attitude Control under Adversarial Perturbations**
Samin Yasar, University of Alabama; Ahmad Alsharif, The University of Alabama; Siddhartha Bhattacharyya, Florida Institute of Technology; Mahmoud Mahmoud, The University of Alabama, Tuscaloosa

3 **Geometry-Based Drift Compensation for Distributed Channel Sounding Measurements in Dynamic Drone Scenarios**
Lorenz Mohr, Marc Miranda, Sebastian Semper, Julia Beuster, Carsten Andrich, Sebastian Giehl, Christian Schneider, Reiner Thomä, Technische Universität Ilmenau

4 **Enhancing Security for UAV Communications in LAWNs via Flexible-Duplex Cell-Free Design**
Wei Shi, Purple Mountain Laboratories; Wei Xu, Yongming Huang, Jiacheng Yao, Wenhao Hu, Dongming Wang, Southeast University

5 **Performance Enhancement of Downlink UAV-Assisted FSO Communication Systems Using HARQ Protocols**
Dushyant Bhaskar, Aashish Mathur, Indian Institute of Technology Jodhpur

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3D: Security and Resilience

1 **Resilience of Visible Light Communication: Manchester Encoding Effects Under Laser Jamming**
Yorman Munoz, Lucresse Dongfack Tsakeng, Ihab Alzalam, Annika Tjabben, Deutsches Forschungszentrum für Künstliche Intelligenz GmbH; Christoph Lipps, German Research Center for Artificial Intelligence; Hans D. Schotten, Deutsches Forschungszentrum für Künstliche Intelligenz GmbH

2 **Blind Source Separation Driven Covariance Matrix Reconstruction for Main-lobe Jamming Suppression in Cell-free MIMO Communication Systems**
Junsheng Luo, Cheng Zhang, Southeast University; Changwei Zhang, Purple Mountain Laboratories; Yongming Huang, Southeast University

3 **Angular-Domain Correlation Based One-Bit Jamming Detection in mmWave Cell-Free Massive MIMO**
Pengguang Du, Cheng Zhang, Southeast University; Changwei Zhang, Purple Mountain Laboratories; Yongming Huang, Southeast University

4 **Effects of an unsynchronized RTS attack on a hardware 802.11ah test bed**
Ignacio Dasso, Sebastien Maudet, Nantes Université; Renzo Navas, IMT Atlantique; Guillaume Andrieux, Nantes Université

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3E: Channel Estimation 1

1 **Tensor-Based Channel Estimation for RIS-Assisted Mobile Communication Systems**
Jiawei Ma, Hao Liu, Yuxing Lin, Xiao Li, Shi Jin, Southeast Uni

2 **Code-Aided Channel Estimation for Metasurface-Based Holographic MIMO**
Roberto Câmara Gentil Porto, Pontifícia Universidade Católica do Rio de Janeiro; Rodrigo C. de Lamare, Pontifical Catholic University of Rio de Janeiro, Brazil

3 **A General EM-Based Channel Model for Reconfigurable Antenna Systems**
Chen Xu, Xianghao Yu, City University of Hong Kong

4 **Pervasively Correlated Channel Model for RIS-Assisted MIMO Systems**
Ziang Wang, Jian Sang, Chenhong Yang, Xiao Li, Wankai Tang, Southeast University; Shi Jin, Southern University; Haiming Wang, Southeast University

5 **OpenPathNet: An Open-Source RF Multipath Data Generator for AI-Driven Wireless Systems**
Lizhou Liu, Xiaohui Chen, Wenyi Zhang, University of Science and Technology of China

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3F: Non-terrestrial Channels

1 **Aerial-to-Ground Communications Under Correlated Shadowing: An Analytical Investigation with ML Prediction**
Nektarios Moraitis, National Technical University of Athens; Petros Bithas, National and Kapodistrian University of Athens; George Efthymoglou, Demosthenes Vouyioukas, Athanasios Kanatas, University of Piraeus

2 **Joint Statistics and Outage Analysis of Time-Correlated Shadowed Rician Channels in LEO Satellite Downlinks**
Jung Min Suh, Young-Chai Ko, Korea University

3 **Field Trials of Beamforming-Based Coverage Fixation Scheme for Multi-Cell Aerial Platforms**
Koji Tashiro, Koichi Maki, Wataru Takabatake, Tsutomu Ishikawa, Kenji Hoshino, SoftBank Corp.

4 **Joint Line-of-Sight Probability Analysis for Air-to-Ground Communication in Grid-Based Urban Environments**
Arisa Iwamoto, Tatsuaki Kimura, Doshisha University

5 **Inverse Synchronization Scheme for Mitigating Beam Interference between Adjacent HAPS Systems in TDD Service Links**
Yuki Hokazono, Hirofumi Nakajo, Kenji Fukasawa, Hisayoshi Kano, NTT DOCOMO INC.; Yuto Muroki, Yoshihisa Kishiyama, Space Compass Corporation; Munehiro Matsui, NTT Corporation

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3G: Energy Efficiency

1 **Graph-Based Search for Energy-Efficient Clustering in User-Centric Cell-Free Massive MIMO**
Julio Tesolin, PUC-Rio; Rodrigo C. de Lamare, Pontifical Catholic University of Rio de Janeiro, Brazil

2 **GNN-Based Base Station Energy Saving for 5G Networks**
Chia-Chi Yu, National Central University; Sheng-Shih Wang, Lunghwa University of Science and Technology; Shiann-Tsong Sheu, National Central University

3 **Distributed DQN-Based Frequency Block-Dependent Sleep Control of Base Stations for Improving Energy Efficiency under FTP Traffic Model**
Ryo Tanaka, Tokyo University of Science; Takanori Hara, Tohoku University; Satoshi Suyama, Satoshi Nagata, NTT DOCOMO INC.; Kenichi Higuchi, Tokyo University of Science

4 **Energy Efficient Routing in Software-Defined In-Vehicle Networks**
Yu-Hao Chen, Chin-Ya Huang, Shan-Hsiang Shen, Tai-Lin Chin, National Taiwan University of Science and Technology

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3H: Scheduling 1

1 **Scalable Multi-UAV Computation Offloading and Resource Scheduling via Transformer-Based Multi-Agent Reinforcement**
Tianhao Ma, Yulu Yang, Tiecheng Song, Southeast University; Xiaoqin Song, Nanjing University of Aeronautics and Astronautics

2 **A Hybrid Fuzzy Logic and Game-Theoretic Relay Selection Approach for Enhancing Communication Stability in Uplink Vehicle-to-HAPS Networks**
Sicheng Wang, Taishin Maeda, Zhenni Pan, Shigeru Shimamoto, Waseda University; Tu Dac ho, Norwegian University of Science and Technology

3 **Satellite Deployment Strategies to Prevent Temporary Capacity Degradation in MIMO Feeder-Link Constellations**
Masaru Sakai, Takaaki Owaki, Hiraku Okada, Takaya Yamazato, Nagoya University; Koyo Tategami, Daisuke Goto, Kiyohiko Itokawa, Tomohiro Tokuyasu, Fumihiro Yamashita, NTT Corporation

4 **Mobility-Aware Feeder Link Management: A Signal-Quality and Direction-Weighted Approach**
Chen-Ching Nieh, National Taiwan University; Kuang-Hsun Lin, National Yang Ming Chiao Tung University; Hung-Yu Wei, National Taiwan University

5 **User-Driven Scheduling Strategy for LEO Satellite Communication Systems**
Yunseo Lee, Hyunwoo Lee, Daesik Hong, Yonsei University

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3I: Collaborative Perception

1 **VALISENS: A Validated Innovative Multi-Sensor System for Cooperative Automated Driving**
Lei Wan, XITASO GmbH & Karlsruhe Institute of Technology; Hannan Ejaz Keen, XITASO GmbH; Prabesh Gupta, Andreas Eich, LiangDao GmbH; Michael Klöppel-Gersdorf, Marcel Kettelgerdes, Maximilian Bialdyga, Fraunhofer IVI; Alexey Vinel, Karlsruhe Intitute of Techology

2 **Aligning What Matters: Object-Centric and Structure-Aware Feature Alignment for Heterogeneous Collaborative Perception**
Donghui Li, Ehsan Javanmardi, Manabu Tsukada, The University of Tokyo

3 **RIC-MAE: Self-Supervised Masked Pretraining for Intermediate Collaboration in V2X Perception**
Benwu Wang, Xu Li, Wenkai Zhu, Zihang Wang, Qimin Xu, Xiang He, Southeast University

4 **Robust Fusion of Object-Level V2X for Learned 3D Object Detection**
Lukas Ostendorf, Lennart Reiher, RWTH Aachen University; Onn Haran, Qualcomm Technologies, Inc.; Lutz Eckstein, Institut für Kraftfahrzeuge RWTH Aachen University

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4A: Encoder & Decoder Techniques 2

1 **Adaptive-Stage DASIC in OFDM-IBFD Systems for Wireless IoT**
Yuya Kasai, Shinsuke Ibi, Hisato Iwai, Doshisha University

2 **OAM Wireless Communication in Sparse Multipath Environments: Modeling, Crosstalk Analysis and Capacity Enhancement**
Shengmin Dai, Fangmin He, Ze Wang, Naval University of Engineering

3 **Near-Optimal LDPC Decoder Using Gradient-Based Gibbs Sampling**
Yixiao Cao, Southeast University; Xingyu Zhou, National Mobile Communications Research Laboratory; Jing Zhang, Hengtao He, Le Liang, Southeast University; Yong Li, CETC-54; Xiao Li, Southeast University; Shi Jin, Southern University

4 **Duplex Mode Selection and Transceiver Design for URLLC in a Cell-Free RAN System with Network-Assisted Free-Duplex**
Xinjiang Xia, Hao Guo, Aike Tao, Southeast University; Chen Huang, Zening Liu, Purple Mountain Laboratories; Dongming Wang, Southeast University; Junhui Zhao, Beijing Jiaotong University; Zhi Zhang, Beijing University of Posts and Telecommunications

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4B: MIMO 4

1 **Energy-Efficient RIS-aided Uplink Cell-Free Massive MIMO-NOMA**
Mohamad Ousseily, Joumana Farah, INSA Rennes; Matthieu Crussière, Institute of Electronics and Telecommunications of Rennes; Joseph Doumit, IMT Atlantique Bretagne-Pays de la Loire; Charbel Abdel Nour, IMT Atlantique; Eric Pierre Simon, University of Lille

2 **Antenna-Port Adaptation with One-Shot CSI Reporting for 6G MIMO Energy Saving**
Fan Wang, Xiaolin Hou, Xiang Li, Chen Lan, DOCOMO Beijing Communications Laboratories Co., Ltd.

3 **Spectral Efficiency Analysis of Repeater-Assisted Massive MIMO Systems**
Pengzhe Xin, Dongming Wang, Wanqing Cao, Pengcheng Zhu, Yongming Huang, Southeast University

4 **NF-TrackLLM: Joint Prediction of UAV Trajectory and Near-Field Beam for LAE XL-MIMO Systems**
Qianfan Lu, Mengyuan Li, Jiachen Tian, Yu Han, Xiao Li, Southeast University; Shi Jin, Southern University

5 **Entropy-Based Symbol Scheduling Considering CSI Aging in MIMO DeepJSCC**
Goki Sawada, Shion Inokuma, Tokyo University of Science; Daisuke Hisano, Osaka University; Kazuki Maruta, Tokyo University of Science

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4C: Radio Access Technology 1

1 **Priority-Based Uplink Resource Allocation for Private 5G Cybernetic Avatar Teleoperation**
Arif Dataesatu, Takeshi Matsumura, National Institute of Information and Communications Technology

2 **SURA: Secure Unsourced Random Access**
Mohammad Javad Ahmadi, Rafael F. Schaefer, Technische Universität Dresden; H. Vincent Poor, Princeton Universtiy

3 **Scalable Channel-Aware User Scheduling for Cell-Free MIMO Networks with User-Centric TRP Clustering**
Hiroto Kikuchi, Tokyo University of Science; Yasuaki Yuda, Panasonic Corporation; Kenichi Higuchi, Tokyo University of Science

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4D: Heterogeneous & Mesh Networks

1 **QoS-Constrained Downlink Power Allocation in 6G Heterogeneous Networks: A Multi-Agent Reinforcement Learning Approach**
Kexuan Wang, An Liu, Zhejiang University

2 **Multi-Reference and History-Enhanced Whale Optimization for Joint Delay-Aware Resource Allocation in Hierarchical Federated Edge Caching**
Yu-Ting Li, Po-Chen Wu, Tsung-Yu Lin, Kai-Ten Feng, National Yang Ming Chiao Tung University; Lie-Liang Yang, University of Southampton; Jen-Ming Wu, Hon Hai Research Institute

3 **Performance Analysis of Shared AP Selection in Multiple Multi-Access Point Coordinated Transmission Groups**
Sota Kuwahara, Hiroaki Hashida, Yuichi Kawamoto, Nei Kato, Tohoku University; Yoshio Urabe, Panasonic Intellectual Property Management Co., Ltd.; Hiroyuki Motozuka, Panasonic Corporation

4 **Broad-Range Null-Steering for Dense mmWave NCR Multi-hop Mesh Networks**
Yuta Tsunoda, Yuki Sasaki, Tokyo University of Science; Go Itami, Visban Corporation, Tokyo, Japan; Yuki Tanaka, None; Arokia Nathan, Cambridge University; Jin Nakazato, Kazuki Maruta, Tokyo University of Science

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4E: Channel Estimation 2

1 Vision-aided Contrastive Pre-training Framework for WiFi CSI Sensing
Daichi Sakai, Institute of Science Tokyo; Kahoko Takahashi, Takahiro Yamazaki, NTT Corporation; Hisashi Nagata, NTT; Takayuki Yamada, NTT DOCOMO, INC.; Takayuki Nishio, Institute of Science Tokyo

2 Wideband holographic channel estimation: Enabling RF-domain signal processing
Jindiao Huang, Haifan Yin, Huazhong University of Science and Technology

3 Fully Asynchronous Unsourced Random Access over Fading Channels
Mert Ozates, IHP; Mohammad Kazemi, Imperial College London; Gianluigi Liva, DLR (German Aerospace Center); Deniz Gunduz, Imperial College of London

4 Online Minibatch Size Assignment for Federated Learning with Heterogeneous and Uncertain Delay
Linglin Kong, Hong Kong Metropolitan University; Chi Wan Sung, City University of Hong Kong; Ho Yuet Kwan, Hong Kong Metropolitan University,

5 A Fast Partition Optimization for Magnitude-Selective Affine Function-Based Digital Predistortion
Daeyoung Kim, Samsung electronics; Hyunseok Yu, Joohyun Do, Hui Won Je, Jungwon Lee, Samsung Electronics

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4F: Non-terrestrial Networks 1

1 Adaptive Control of Reverse Use of TDD Frame Structure to Maximize System Throughput in Co-existing Networks with HAPS and Terrestrial BSs
Takane Nakazawa, Kenichi Higuchi, Tokyo University of Science

2 A DRL-Based Task Offloading and Service Migration Scheme for LEO Satellite Networks
Yi-Huai Hsu, Yi-Hsuan Hsu, Wei-Fan Zhan, Cho-Hung Lu, Yuan Ze University

3 AP in the sky: a scalable integrated LEO-Cell-free Massive MIMO network
Felip Riera-Palou, Guillem Femenias, University of the Balearic Islands; Màrius Caus, Musbah Shaat, Centre Tecnològic de Telecomunicacions de Catalunya (CTTC); Victor P Gil Jimenez, M. Julia Fernández-Getino García, Universidad Carlos III de Madrid

4 Self-Sustainable LEO Satellite Communications via Energy-Harvesting Stacked Intelligent Metasurfaces and Mamba-Driven Long-Term Resource Allocation
Yu-Han Ma, Po-Chen Wu, Kai-Ten Feng, National Yang Ming Chiao Tung University; Zhi Ding, University of California at Davis; Jen-Ming Wu, Hon Hai Research Institute

5 Spatial-Temporal Aware Multipath Routing for Load Balancing in LEO Satellite Networks
Yanpeng Zheng, Feng Yan, Southeast University; Ruijing Zhao, Zhongtian Radio Frequency Cable Co. LTD; Fei Shen, Chinese Academy of Sciences; Weiwei Xia, Lianfeng Shen, Tiecheng Song, Southeast University

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4G: Applications & Security

1 Adaptive Multi-UAV 360-degree Video Transmission
Soya Iimura, The University of Electro-Communications; Takuya Fujihashi, Osaka University; Shunsuke Saruwatari, University of Osaka; Zhi Liu, The University of Electro-Communications

2 An Internet of Flying Things Prototype for the Localization of Gas Emission Sources
Davide Scazzoli, Alessandro Andrea Vogrig, Federico Nigro, Vineeth Teeda, Politecnico di Milano

3 Hierarchical Edge-Cloud Task Offloading in NTN for Remote Healthcare
Alejandro Flores, SnT, University of Luxembourg; Danial Shafaie, Barcelona Supercomputing Center; Konstantinos Ntontin, University of Luxembourg; Elli Kartsakli, Barcelona Supercomputing Center; Symeon Chatzinotas, SnT, University of Luxembourg

4 Resilience Through Escalation: A Graph-Based PACE Architecture for Satellite Threat Response
Anouar Boumeftah, Polytechnique Montréal; Sarah McKenzie-Picot, Peter Klimas, Northstar Earth & Space; Gunes Karabulut Kurt, Polytechnique de Montreal

5 Secret Key Distillation in Fractional-Doppler LEO Satellite Channels using OTFS
Johannes Voichtleitner, Luis Torres Figueroa, Swadeesh Srivatsa Mysore Ramesha, Ullrich J. Mönich, Moritz Wiese, Technical University of Munich; Marc Geitz, Deutsche Telekom AG; Holger Boche, Technische Universität München

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4H: Scheduling 2

1 Downlink User Scheduling Optimization in Cell-Free Massive MIMO Networks
Qingqing Xie, Southeast University; Yue Wu, Purple Mountain Laboratories; Pengzhe Xin, Jiamin Li, Pengcheng Zhu, Southeast University; Chunguo Li, Southeast University, Nanjing, China; Xiaolong Ni, Yu Liu, Ticom Tech; Dongming Wang, Southeast University

2 Traffic-Aware Network Sharing: A Data-Driven Evaluation across Cluster Combinations
Alessandro Caramia, Maoquan Ni, Daniela Renga, Politecnico di Torino; Loutfi Nuaymi, IMT Atlantique; Michela Meo, Politecnico di Torino

3 LarS-Net: A Large-Scale Framework for Network-Level Spectrum Sensing
Hao Guo, Ruoyu Sun, CableLabs; Amir Hossein Fahim Raouf, North Carolina State University; Rahil Gandotra, CableLabs; Jiayu Mao, Ohio State University; Mark J. Poletti, CableLabs

4 Link-Specific AP Selection for Multi-Link Operation in Multi-AP Coordination Systems
Ryu Shoji, Hiroaki Hashida, Yuichi Kawamoto, Nei Kato, Tohoku University; Yoshio Urabe, Panasonic Intellectual Property Management Co., Ltd.; Hiroyuki Motozuka, Panasonic Corporation

5 WATARI: Water-Filling-Inspired Traffic-Aware Multi-Band Resource Allocation for Uplink-Downlink Asymmetry
Hirantha Abeysekera, Minoru Inomata, Yusuke Asai, Yoichi Taguchi, Kotaro Nagano, Takumi Hirosue, NTT, Inc.

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4I: Remote Driving

1 Feasibility Assessment of Remote Driving via Latency Analysis of ITS-G5 and Cellular Networks in the MASA Living Lab
Gaetano Orazio Cauchi, Antonio Solida, Salvatore Iandolo, Marco Savarese, Martin Klapez, Enrico Rossini, Marcello Pietri, Marco Picone, Marco Mamei, Maurizio Casoni, Carlo Augusto Grazia, University of Modena and Reggio Emilia

2 Context-aware Bandwidth Adaptation for Video Stream of Teleoperated Fleets of Vehicles
Domenico Zappalà, Claudia Campolo, Università Mediterranea di Reggio Calabria; Carlos M. Lentisco, Ignacio Soto, Universidad Politecnica de Madrid; Antonella Molinaro, University "Mediterranea" of Reggio Calabria

3 Tele-operability-estimation model for construction machinery
Nozomi Endo, Masanori Koike, Noritsugu Egi, Akihiro Shiozu, NTT, Inc.

4 Mobility-Aware Offline Reinforcement Learning for Optimizing ABR in Teleoperated Driving
Soto Anno, Takuma Tsubaki, Takashi Torii, Akito Suzuki, NTT, Inc.; Takuya Tojo, NTT Network Service Systems Laboratories

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5A: Encoder & Decoder Techniques 3

1 **Short girth-8 QC-LDPC codes constructed from highly structured exponent matrices defined by two integers**
Guohua Zhang, Xuejiao Hao, Jiayu She, Yongzhi Zhai, Xi'an University of Posts and Telecommunications; Yi Fang, Guangdong University of Technology

2 **Bussgang-based SIC decoder under non-linear power amplifier for two-user downlink NOMA**
Gaston Philippe, Arthur Louchart, Anne Savard, IMT Nord Europe; Eduard Jorswieck, Technische Universität Braunschweig

3 **Joint Precoding and User Scheduling for Cell-Free Networks**
Ruiding Hou, Jiaheng Wang, Southeast University; Sen Wang, China Mobile Research Institute; Yongming Huang, Southeast University; Liang Xia, Jing Jin, China Mobile Research Institute

4 **Secrecy Analysis of Correlated FSO Systems: An FGM Copula Based Approach**
Rina, Dushyant Bhaskar, Aashish Mathur, Indian Institute of Technology Jodhpur

5 **A Novel Time-Frequency Approach for Frequency-Hopping Signal Blind Estimation**
Ali Khalaf, MC2 Technologies; Arthur Louchart, IMT Nord Europe; Sébastien Houcke, IMT Atlantique; Ray Abdo, MC2 Technologies; Laurent Clavier, Institut Mines-Telecom, IMT Nord Europe, France

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5B: mmWave & ThHz 1

1 **Low-Complexity Near-Field Location Sensing Using Block Sparse Bayesian Learning in Extremely Large-Scale mmWave/Sub-THz Systems**
Qian Wan, University of Macau; Xiaopeng Huang, Eastcompeace Technology Co., Ltd; Xiaoguang Zhang, China Gezhouba Group NO.2 Engineering Co., Ltd; Xinping Li, Wuhan University of Technology; Yuan Wu, University of Macau

2 **End-to-End Gesture Recognition from Raw mmWave Radar Signals with Preprocessing Network**
WenboJi, Lingxiang Li, University of Electronic Science and Technology of China; Zhen Wang, Southwest Petroleum University; Zhi Chen, University of Electronic Science and Technology of China

3 **Ambient Backscatter Communication Assisted by Fluid Reconfigurable Intelligent Surfaces**
Masoud Kaveh, Aalto University; Farshad Rostami Ghadi, University of Granada; Riku Jantti, Alato University; Kai-Kit Wong, University College London; F. Javier Lopez-Martinez, Universidad de Granada

4 **Adaptive Design of mmWave Initial Access Codebooks using Reinforcement Learning**
Sabrine Aroua, Christos A. Bovolis, Bo Goransson, Anastasios Giovanidis, Mathieu Leconte, Apostolos Destounis, Ericsson

5 **On the Spatial Consistency of Sub-Terahertz Channel Characteristics for Beyond-6G Systems**
Hossein Amininasab, Huda Farooqui, Dmitri Moltchanov, Sergey Andreev, Tampere University; Michele Polese, Northeastern University; Mikko Valkama, Tampere University; Josep M. Jornet, Northeastern University

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5C: Radio Access Technology 2

1 **Stochastic Risk-Based Path Pruning for Spike-Resilient QoS in Multipath Wireless Networks**
Anan Sawabe, Kohei Egashira, Yasuaki Sumiyoshi, Yusuke Shinohara, Koichi Nihei, NEC Corporation

2 **H-Matrix Optimization via Angular Phase Shift for MIMO Capacity Enhancement**
Md Mohaiminul Haque, Mikko Heino, Jukka Lempiäinen, Tampere University

3 **Predictive and Spatially Aware Scheduling in Flexible Duplexing for Deterministic Communications**
Syed Morsleen Riaz, Baldomero Coll-Perales, Mª Carmen Lucas Estañ, Javier Gozálvez, Miguel Sepulcre, Universidad Miguel Hernandez de Elche (UMH)

4 **Determinantal Point Process-Based User Selection for Uplink Multi-Cell NOMA Networks**
Haruka Sakagawa, Tatsuaki Kimura, Doshisha University

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5D: Multi-Hop Networks

1 **Optimization of Power, Computation Offloading, and Route Selection in Multi-Hop Networks**
Muhammad Zubair Khaliq, Zdenek Becvar, Pavel Mach, Czech Technical University in Prague

2 **Coordinated Learning for Route Selection in Cache-enabled Multi-Hop Networks**
Emre Gures, Pavel Mach, Zdenek Becvar, Czech Technical University in Prague

3 **Delay Performance of a Multi-hop Network with Direct Links and Battery-Assisted Energy Harvesting Nodes**
Amar Kumar Mishra, Indian Institute of Technology Delhi; Shankar Prakriya, Indian Institute of Technology, Delhi

4 **Relay Selection and Power Allocation in IBFD Relay under Residual Self-Interference for Industrial URLLC**
Nann Win Moe Thet, Kenichi Takizawa, NICT

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5E: Channel Estimation 3

1 **Imaging-based spectral estimation for multi-target DoA with a single Rydberg receiver**
Liangcheng Han, Haifan Yin, Huazhong University of Science and Technology; M'erouane Debbah, KU 6G Research Center, Khalifa University of Science and Technology

2 **The Impact of Directional Strong Electromagnetic Pulse Attacks on Cellular Networks**
Jiaxin Du, Yangbin Jiang, Feng Yan, Zhi Hao Jiang, Southeast University; Weiwei Xia, Lianfeng Shen, Southeast University, P.R. China

3 **Data-Free Collaborative Training Methods for Channel State Information Compression**
Yoonseong Kang, Samsung Electronics

4 **Backscatter Devices Assisted Channel Charting**
Norshahida Saba, Pere Garau Burguera, Jingyi Liao, Hanan Al-Tous, Olav Tirkkonen, Aalto University; Riku Jäntti, Department of Communications and Networking, Aalto University

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5F: Non-terrestrial Networks 2

1 **LEO Network Quality Prediction Using Satellite Geometry and 3D Map-Based Visibility Features**
Masaki Okada, Takashi Torii, Nobuhiro Azuma, NTT, Inc.; Takuya Tojo, NTT Network Service Systems Laboratories

2 **Intelligent Handover Management for Hybrid TN-NTN Mobility in 6G Architectures**
Ons Aouedi, Tedros Salih, Hung Nguyen-Kha, Eva Lagunas, Jorge Querol, University of Luxembourg; Joel Grotz, SES. S.A.

3 **Learning-Based Backoff Indicator Optimization for Random Access in 5G NR Non-Terrestrial Networks**
Husnain Shahid, Musbah Shaat, Màrius Caus, Centre Tecnològic de Telecomunicacions de Catalunya (CTTC)

4 **Machine Learning-Based Terrestrial-Satellite Vertical Handover for 6G and Beyond Networks**
Małgorzata Wasilewska, Michal Sybis, Poznań University of Technology

5 **Impact of Terrestrial Blockage on the Coverage of Integrated Satellite-Terrestrial Networks**
Joon-Young Park, Korea University; Byungju Lim, Pukyong National University, Busan, South Korea; Young-Chai Ko, Korea University

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5G: Positioning & Localization 1

1 **Learning Invariant Representations for Large-Scale Indoor Positioning: A Robust 5G Fingerprint Encoder via Contrastive Learning**
Yuchen Ma, Jiyu Jiao, Jianping Zhu, Rui Deng, Xiaojun Wang, Southeast University; Peng Liu, Yuqing Li, Purple Mountain Laboratories

2 **Large-Scale Indoor Positioning in Commercial 5G Networks: A Meta-Learning-Based cross-domain Generalization Approach**
Jiyu Jiao, Rui Deng, Jianping Zhu, Yuchen Ma, Xiaojun Wang, Southeast University; Aimin Li, China Tower Co., Ltd; Peng Liu, Yuqing Li, Purple Mountain Laboratories

3 **Robust Channel Charting for Large-Scale Indoor Localization: A Weakly Supervised Framework with Sparse Anchors**
Jianping Zhu, Jiyu Jiao, Yuchen Ma, Rui Deng, Xiaojun Wang, Southeast University; Peng Liu, Yuqing Li, Purple Mountain Laboratories

4 **Cooperative Localization, Velocity Estimation and Synchronization in DISAC Systems**
Bingqing Li, Jie Yang, Hua Zhang, Le Liang, Haotian Wang, Southeast University; Shi Jin, Southern University

5 **From Ranging to Sensing: Toward Robust Human Detection with UWB Measurements**
anthony bouery, Université de toulouse; François Aïssaoui, Orange Research; Réjane Dalce, Institut de Recherche en Informatique de Toulouse; Loig Le Meliner, Orange Innovation; Thierry Val, Université de Toulouse - IRIT; Adrien van den Bossche, University of Toulouse II - Jean Jaures

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5H: Autonomous Vehicles

1 **Fail-Operational Safety Trajectory Generation for Autonomous Vehicles in Public Environments**
Mehmet Kaya, Elif Toy Aziziaghdam, Otokar Automotive and Defense Ind.

2 **OtonoMonitor: A Heterogeneous FuSa-Aware Safety Monitoring System for Autonomous Vehicles**
Batuhan Yılmaz, Berke Miraç, Burak Bahtın Saltık, Elif Toy Aziziaghdam, Otokar Automotive and Defense Ind.

3 **Voxel-Based Online Extrinsic Calibration Monitoring for Multi-LiDAR Systems using PCA**
Sanem Uytan, Onur Acun, Elif Toy Aziziaghdam, Otokar Automotive and Defense Ind.

4 **Improving Deep Reinforcement Learning-Based Autonomous Driving in Narrow Residential Lanes with Curriculum Learning**
Sarah Puspa Dewi, Universitas Gadjah Mada; Kadek Gemilang Santiyuda, Institut Bisnis dan Teknologi Indonesia; Kabul Kurniawan, Muhammad Alfian Amrizal, Moh Edi Wibowo, Nur Rokhman, Reza Pulungan, Universitas Gadjah Mada; Vincent F. Yu, National Taiwan University of Science and Technology

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5I: Security & Resilience

1 **Implementation and Impact Assessment of Quantum Safe Hybrid Signature In V2X Communications**
Ines ben Jemaa, IRT-SystemX; Zakaria Hebbal, Brigitte Lonc, IRT SystemX

2 **Dual-Path V2N/V2V OTA Update Distribution for SDVs: Design and Experimental Evaluation**
Khaoula Sghaier, EPITA; Arslane Hamza-Cherif, Pierre Merdrignac, VEDECOM Institute; Ghada Gharbi, EPITA; Chahrazed Ksouri, VEDECOM Institute; Badis Hammi, Télécom SudParis; Bechir Yengui, VEDECOM; Pierre Parrend, Didier Verna, EPITA

3 **Reliability Analysis of 5G Communications for Automated Urban Transportation Systems**
Santiago Rios-Guiral, Université de Lorraine, CNRS, Inria, LORIA; Abdelhak Hidouri, CEDRIC Laboratory, Conservatoire National des Arts et Métiers (CNAM); Abdelkader Lahmadi, LORIA - CNRS, Inria, Université de Lorraine, France; Ye-Qiong Song, University of Lorraine; Pedro B. Velloso, Samia Bouzefrane, CEDRIC Laboratory, Conservatoire National des Arts et Métiers (CNAM)

4 **Towards Formalizing Safety Monitoring in Vehicular Lane Changes using Temporal Logic**
Mariam Nour, Toyota InfoTech Labs; Mohamed Zaki, Western University

5 **TEV-IDS: CAN Intrusion Detection System via Spatial Temporal-Entropy-Variation Fingerprinting**
Shuo Peng, Zhihe Zhang, Go Tsuruoka, Waseda University; Tatsuya Mori, Waseda University/NICT/RIKEN AIP

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6A: Encoder & Decoder Techniques 4

1 **Graph Attention Network-Based Detection Scheme for Asynchronous SCMA Systems**
Keli Zhu, Liyan Li, Zhejiang University

2 **Frequency-Domain Piecewise Mixture-of-Experts Approach for Digital Predistortion of RF Power Amplifiers**
Nanxi Li, Yuan Jiang, Lei Zhao, Sun Yat-sen University; Jianming Lv, South China University of Technology

3 **Radio Map-to-Beamforming Weight Mapping via Conditional Invertible Neural Networks**
Shu Nozawa, Norisato Suga, Shibaura Institute of Technology

4 **Synchronized SS-CDMA on USRP Using Wi-Wi: Performance Evaluation Under Multiple Timing Offsets**
Toshiki Ouchi, Serena Akasaka, Masataka Miyake, Suguru Kameda, Hiroshima University

5 **Blind Parameter Estimation of Underwater Acoustic S2C Signals in Impulsive Noise**
Thomas Bureau, Francois-Xavier Socheleau, Sébastien Houcke, IMT Atlantique

Thursday, 11 June 2026 16:00 - 17:30 Lympia A-2

6B: mmWave & ThHz 2

1 **Low-Complexity Learning-Based Beamforming for Ultra-Massive MIMO THz Communications**
Sourabh Solanki, National Institute of Technology (NIT) Warangal, India; Abuzar B. M. Adam, Chandan Kumar Sheemar, Zaid Abdullah, Eva Lagunas, University of Luxembourg; George Alexandropoulos, National and Kapodistrian University of Athens; Symeon Chatzinotas, SnT, University of Luxembourg

2 **OTFS Receiver with Dual-Branch Processing for Fractional Doppler Mitigation in V2X Counter-Approaching Scenarios**
Keiichi Mizutani, Nagoya University; Kiminobu Makino, Toyota Motor Corporation

3 **Distributed Multi-point Channel Charting for Cell-Free Massive MIMO Systems**
Pere Garau Burguera, Hanan Al-Tous, Olav Tirkkonen, Aalto University

4 **CSIT-Free Multi-Group Multicast for Overloaded mmWave Systems**
Wonseok Choi, Jeongjae Lee, Songnam Hong, Hanyang University

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6C: Integrated Sensing and Communication 1

1 **Scheduling Approaches for Wireless D2D Networks with Integrated Sensing and Communication**
Shih-Hsien Chen, Chun-Yi Kuo, Ming-Chun Lee, Yu-Chih Huang, National Yang Ming Chiao Tung University

2 **Geometry-Dependent Sensing Outage Analysis for Bistatic ISAC With Spatial Leakage and RCS Fluctuations**
Chun-Yi Wei, National Taipei University; Yu-Sin Liu, Jiun-Hung Yu, National Yang Ming Chiao Tung University

3 **A Novel Waveform for Multi-Target Detection in ISAC Scenarios**
Sijie Wang, Jie Huang, Cheng-Xiang Wang, Southeast University

4 **Designing 3GPP-Compliant Zadoff-Chu Waveforms for Joint Radar and Communication Systems**
Mann Maru, Naveen Mysore Balasubramanya, Indian Institute of Technology Dharwad

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6D: Channel & Interference Estimation 1

1 **FACE: A Feature-Aware Channel Estimator for SRS-Based Channel Estimation in 5G NR**
Kakyeom Jeon, Hyebin Cho, Jee-Hyeon Na, Nam-I Kim, Electronics and Telecommunications Research Institute

2 **Attention-Driven SIC for Massive MIMO Detection Under Imperfect CSI**
Toluwaleke Olutayo, Benoit Champagne, McGill University

3 **Deep Reinforcement Learning Based Link Adaptation With Wideband CQI Feedback**
Shamsa Kanwal, Hanan Al-Tous, Aalto University; Mario Costa, Pekka A Ranta, Nokia; Olav Tirkkonen, Aalto University

4 **Precoding-Oriented CSI Feedback Design with Mutual Information Regularized VQ-VAE**
Xi Chen, Rutgers University; Homa Esfahanizadeh, Foad Sohrabi, Nokia Bell Labs

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6E: Antennas

1 **A Novel 3D GBSM for STAR-RIS Assisted Integrated Sensing and Communication Systems**
Zayyad Haleed, Qun Wu, Jie Huang, Cheng-Xiang Wang, Southeast University

2 **A D-band CMOS Beamforming Receiver Module with Linearly Arranged Antenna**
Sunwoo Kong, ETRI; Seunghun Wang, SEOULTECH; Hui-Dong Lee, Seunghyun Jang, Bonghyuk Park, Dongphil Jang, ETRI

3 **A Low-Profile Circularly Polarized Filtering Folded Transmitarray Antenna for Vehicular Communication Based on Metasurface**
Qingsong Jia, Linman Zhang, Xi Ran, Tingting Wang, Qianyuan Laboratory

4 **Integrated Antenna Performance Design by Utilizing Born Iteration Method**
Xi Ran, Tingting Wang, Cun Wang, Qingsong Jia, Jiaqi Xing, Qianyuan Laboratory

5 **Optimization of Metasurface-Based Reconfigurable Antenna in Cellular Network Uplink**
Yaser Dorrazehi, Anna Valeria Guglielmi, University of Padova; Stefano Tomasin, University of Padua

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6F: Ad-Hoc Networks

1 **GeoOpt: Mitigating the Geographic Routing Memory Effect in Sparse LDACS Air-to-Air Networks**
Musab Ahmed, Konrad Fuger, Koojana Kuladinithi, Andreas Timm-Giel, Hamburg University of Technology

2 **Toward Robust Routing in UAV Networks: The HRC-QMIX Framework for Cooperative Multi-Agent Forwarding**
Wenjing Wei, Harbin Institute of Technology; Tianyu Wang, QiYuan Lab; Hanze Liu, Hu Wang, Xinran Zhou, Zhutian Yang, Harbin Institute of Technology

3 **Data-Driven and Energy-Aware Federated Learning Design with Highly Mobile Clients**
Selman Sezgin, Orange; Kahina Mokrani, Orange Labs; Julien Jacques, Université Lumière Lyon 2; Sylvain Allio, Orange Labs

4 **Robust Hybrid Graph Filtering for Wireless Traffic Prediction in V2X Networks**
Jiayin Zhang, Tingting Zhang, Haoyang Li, Nan Wu, Beijing Institute of Technology; Mehul Motani, National University of Singapore

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6G: Positioning & Localization 2

1 **Low-Complexity Efficient Estimators for Multi-band 6G Carrier Phase Positioning**
Ehsan Shourezari, Ossi Kaltiokallio, Jukka Talvitie, Mehmet C. Ilter, Tampere University; Gonzalo Seco-Granados, Universitat Autònoma de Barcelona (UAB); Henk Wymeersch, Chalmers University of Technology; Mikko Valkama, Tampere University

2 **Impact of Preprocessing on Neural Network-Based RSS/AoA Positioning**
Omid Abbassi Aghda, NOVA University of Lisbon; Slavisa Tomic, Coplabs; Oussama Ben Haj Belkacem, Instituto de Telecomunicacoes; João Guerreiro, FCT-Universidade Nova de Lisboa, Instituto de Telecomunicações; Nuno Souto, Instituto de Telecomunicações/ISCTE-IUL; Michal Szczachor, NOKIA; Rui Dinis, Universidade Nova de Lisboa

3 **Quality-Aware Denoising of Ultra-Short TDoA Measurements for 5G-NR UAV Localization**
Zexin Fang, Bin Han, Anjie Qiu, RPTU Kaiserslautern-Landau; Zhuojun Tian, KTH Royal Institute of Technology; Hans D. Schotten, RPTU Kaiserslautern-Landau

4 **Target Sensing with mmWave 5G NR Signals Using a Deep Image Prior Neural Network**
Yin Li, Xinyang Li, Ullrich J. Mönich, Holger Boche, Technische Universität München

5 **Joint Pilot and Unknown Data-based Localization for OFDM Opportunistic Radar Systems**
Mathieu Reniers, Martin Willame, Jerome Louveaux, Luc Vandendorpe, Université cathoique de Louvain

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6H: Driver Behaviour

1 **CARLA-Round: A Multi-Factor Simulation Dataset for Roundabout Trajectory Prediction**
Xiaotong Zhou, Zhenghui Yuan, University of Warwick; Yi Han, Wuhan University of Technology; Tianhua Xu, University of Warwick; Laurence. T. Yang, Zhengzhou University

2 **A Semi-supervised Approach for Car-following Driver Behavior Recognition**
Nastaran Khoshnood Sarabi, Graz University of Technology; Cornelia Lex, University of Graz

3 **Leveraging Real Perception Data in V2X Simulation for Misbehavior Detection Assessment**
Jiahao Zhang, Ines Ben Jemaa, Zakaria Hebbal, IRT-SystemX

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6I: Vehicular Technologies & Autonomous Driving

1 **Mind the Noise: Sensitivity of Transformer-based Interaction-Aware Trajectory Prediction Models to Noisy Data**
Shahab Salehi, Luca Lusvarghi, Miguel Sepulcre, Javier Gozálvez, Universidad Miguel Hernandez de Elche (UMH)

2 **Multi-Target Maneuver Coordinations: Unlocking Coordination Opportunities in Connected Automated Driving**
Rafael Molina-Masegosa, Universidad Miguel Hernandez de Elche (UMH); Sergei S. Avedisov, Toyota North America R&D - InfoTech Labs; Miguel Sepulcre, Universidad Miguel Hernandez de Elche (UMH); Takayuki Shimizu, Toyota Motor North America; Javier Gozálvez, Universidad Miguel Hernandez de Elche (UMH); Onur Altintas, Toyota Motor North America R&D

3 **Benchmarking of Signal-Strength Prediction Tools on the Vienna Drive-Test Dataset**
Philip Schwarzinger, Wilfried Wiedner, Technical University of Vienna; Philipp Svoboda, TU Wien

4 **Demand- and Priority-Aware Adaptive Congestion Control for Heterogeneous V2X Service Requirements**
Miguel Sepulcre, Javier Tortosa-Garcia, Javier Gozálvez, Universidad Miguel Hernandez de Elche (UMH)

3 **Demystifying VEINS: A Reality Check Against Living Lab Experiments**
Antonio Solida, Giovanni Gambigliani Zoccoli, Gaetano Orazio Cauchi, Filip Valgimigli, Salvatore Iandolo, Martin Klapez, Maurizio Casoni, Mirco Marchetti, Carlo Augusto Grazia, University of Modena and Reggio Emilia

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7A: Mobile Edge Computing

1 **Fairness-Oriented Latency Optimization for Strictly Energy-Constrained Cell-Free Mobile Edge Computing Networks**
Qinlei Xu, Yuelin Zhong, Yu Qian, Pengcheng Zhu, Southeast University

2 **Sequential-MARL-based Joint Trajectory Design and Cooperative Task Offloading in UAV-Assisted MEC Networks**
Tian Xia, Weiwei Xia, Jianing Zhao, Yingying Xu, Feng Yan, Lianfeng Shen, Southeast University

3 **Joint Latency-Energy Aware Service Placement in Vehicular Edge Computing via Graph Neural Networks Predictions and Reinforcement Learning**
Kais Baccour, LaBRI and EFREI Research Lab; Youssef Ait El Mahjoub, Yessin Neggaz, Efrei Research Lab, Université Paris-Pantheon-Assas; Toufik Ahmed, CNRS-LaBRI UMR 5800, University Bordeaux, Bordeaux-INP

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7B: OpenRAN & AI-RAN & AI Agents

1 **DQN-Based LDPC Kernel Launch Mode Control for Resource Efficiency Enhancement in NVIDIA cuPHY PUSCH Receiver Processing**
Hyebin Cho, Kakyeom Jeon, Jee-Hyeon Na, Nam-I Kim, Electronics and Telecommunications Research Institute

2 **Intelligent Network System: Service Provisioning Using AI-Agents**
Chetna Singhal, Inria; Yassine Hadjadj Aoul, University of Rennes

3 **Implementation of an AI-RAN Integrated 28 GHz mmWave FPGA OFDM Transceiver: GPU Accelerated Channel and Phase Noise Estimation**
Suhyun Kim, Kaewon Choi, Sungkyunkwan University

4 **ProLaB xApp: Proactive Latency Bounds for Reliable and Self-Adapting Open RAN 6G Networks**
Andrea Nota, Niklas A. Wagner, Robin Wiebusch, Christian Wietfeld, Selma Saidi, Technische Universität Braunschweig

5 **Diffusion Model-based Pre-training and Fine-tuning for Federated Learning with Data Heterogeneity**
Konosuke Kido, Yi-Han Chiang, Osaka Metropolitan University; Tsung-Wei Chiang, National Chung Cheng University; Shi-Sheng Sun, National Chengchi University; Hai Lin, Osaka Metropolitan University; Yusheng Ji, National Institute of Informatics

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7C: Integrated Sensing and Communication 2

1 **A LoS-Suppressing Beam Sweeping and Tracking Method Based on Coordinate Descent Algorithm for mm-Wave ISAC System**
Geyang Hua, Shuo Shen, Zhifei Wang, Qingji Jiang, Xuandi Zhang, Dongming Wang, Southeast University

2 **Cell-free MIMO-Assisted ISAC: Joint AP Switching and Power Allocation**
Bin Yan, Zheng Wang, Southeast University; Amin Sakzad, Monash University; Yongming Huang, Southeast University; Michalis Matthaiou, Queen's University Belfast

3 **Joint Data-Aided Sensing and Background Clutter Mitigation in Bistatic SIMO-OFDM ISAC Systems: a MAP Turbo Receiver**
Zhen-Chang Chen, Jiun-Hung Yu, Ming-Chun Lee, National Yang Ming Chiao Tung University

4 **Precoding for Uplink Multi-User MIMO-OFDM ISAC Systems with Multistatic Sensing**
Chun-Yen Pan, Ming-Chun Lee, Ta-Sung Lee, National Yang Ming Chiao Tung University

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7D: Channel & Interference Estimation 2

1 **Sparse Radio Map-based Layout Tomographic Reconstruction**
Sora Watanabe, Norisato Suga, Shibaura Institute of Technology

2 **Transformer-Based Propagation Path Prediction for Wireless Channel Modeling Using 3D Point Clouds**
Siqi Xu, Guogang Su, Junling Li, Cheng-Xiang Wang, Southeast University

3 **Dual-Subcarrier Diversity and Sparsification for Stable Over-the-Air Federated Learning**
Jiwon Choi, Joonhyuk Kang, Korea Advanced Institute of Science and Technology

4 **One-shot Interference Classification in Communication Systems using a Relation Network**
Andreas Andersson, Erik Axell, Tryggve Svensson, Magnus Malmström, Kia Wiklundh, Swedish Defence Research Agency

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7E: Channel Modelling

1 **MIMO- and Bandwidth-Aware Path-Loss Modeling for 2.4, 5, and 6 GHz Indoor Wi-Fi**
Erma Perenda, Adtran Networks SE; Martin Kuipers, Adtran Network SE

2 **Adaptive Channel Estimation for Movable Antenna Systems Based on Bayesian Compressive Sensing**
TianQiu, Haihong Sheng, Pengcheng Zhu, Southeast University; Kui Xu, Lei Zhu, Army Engineering University of PLA

3 **Asymptotic Outage Performance of RIS-aided FAS Over Rayleigh Fading Channels**
Yi Zhang, Jinan University; Jintao Wang, University of Macau; Zheng Shi, Xu Wang, Di Wang, Jinan University; Guanghua Yang, JiNan University; Shaodan Ma, University of Macau

4 **Characterization of Near-field Effects in Reconfigurable Intelligent Surface Aided V2X Links using Infinitesimal Dipole Modelling**
Raju Malleboina, Atli Lemma Gebretsadik, Debdeep Sarkar, Indian Institute of Science Bangalore

5 **Measurement-Based Human Blockage Analysis and Modeling in Underground Parking Lots at 3.5 GHz**
Lei Yang, Beijing jiaotong University; Ke Guan, Beijing Jiaotong University; Danping He, Beijing Institute of Technology; Hao An, Beijing jiaotong University; Bei Zhang, MediaTek (Beijing) Inc.; Junyi Yu, Beijing Qianjing Technology Co., Ltd.; Zhangdui Zhong, Beijing Jiaotong University

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7F: Internet-of-Things

1 **Leveraging Cyclostationary Features and Continual Learning for Robust RF Fingerprinting in IoT and UAV Networks**
Nordine Quadar, Abdellah Chehri, Royal Military College of Canada; Benoit Debaque, Thales Digital Identity and Security

2 **Experimental Evaluation of LPWAN Technologies: mioty, LoRaWAN, Sigfox, NB-IoT, and LTE-M in Deep Indoor Environments**
Christof Roehrig, Benz Cramer, FH Dortmund

3 **Distributed Frame Deduplication Mechanism for Mobile LoRaWAN Network**
Gewu BU, University Clermont Auvergne; Nancy El Rachkidy, University Clermont-Auvergne

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7G: Satellite Systems

1 **Bessel Beam Codebook-Based Spiral Acquisition for Optical Inter-Satellite Links**
Muhammad Ramzan, Eva Lagunas, Mert Byraktar, SnT, University of Luxembourg

2 **Improving Radio SLAM via Information Sharing: Collaborative Performance Bounds**
Radovan Juran, Ossi Kaltiokallio, Tampere University; Julia Equi, Ericsson Research; Jukka Talvitie, Simona Lohan, Mikko Valkama, Tampere University

3 **Low-Complexity Beam Position Design for LEO Beam-Hopping Satellite Communications**
Yilin Liang, Yuan Jiang, Lei Zhao, Sun Yat-sen University

4 **Multi-Receiver Information Fusion for Passive LEO Satellite Tracking**
Zak (Zaher) Kassas, Joe Saroufim, Samer Hayek, The Ohio State University

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7H: ITS

1 **Dual-Branch Multi-Modal Learning-Based Vehicle Trajectory Prediction for Autonomous Driving**
Chia-Chen Chan, Bo-Heng Yeh, Jen-Ming Wu, National Tsing Hua University; Ronald Y. Chang, Academia Sinica

2 **eXplainable AI For Enhanced Trojan Detection In Autonomous Vehicle Steering Networks**
Isaac Adom, North Carolina Agricultural and Technical State University; Ashraful Milton, Universitat Autònoma de Barcelona; Sunil Gaire, North Carolina A&T State University; Mahmoud Mahmoud, The University of Alabama, Tuscaloosa

3 **Self-Supervised Relevance Modelling in Autonomous Driving via Counterfactual Analysis**
Luca Lusvarghi, Javier Gozálvez, Pablo Urbano Hidalgo, Universidad Miguel Hernandez de Elche (UMH)

4 **A Quantum Method for Constrained Vehicle Dynamics and Green-Wave Optimization**
Leonardo Lavagna, University of Rome 'La Sapienza'; Daniele Vignarca, Stefano Arrigoni, Edoardo Sabbioni, Politecnico di Milano; Antonello Rosato, Massimo Panella, University of Rome 'La Sapienza'

5 **Reinforcement Learning for Dynamic Clustering and Routing in Customized Transportation Systems**
Weisheng Zhang, Peng Sun, Duke Kunshan University

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7I: Vehicular & Edge Communication 1

1 **Towards Intelligent Computation Offloading in Dynamic Vehicular Networks: A Scalable Multilayer Pipeline**
Falk Dettinger, Matthias Weiß, Baran Gül, Sruthi Mangala Suresh, Nasser Jazdi, Michael Weyrich, University of Stuttgart

2 **Improving Misbehaviour Detection Through Infrastructure Support Without Raising Complexity**
Francesca Bassi, Jiahao Zhang, IRT Systemx; Ines Ben Jemaa, IRT SystemX; Frank Kargl, Benjamin Erb, Ulm University

3 **Real-world Latency Analysis of Vehicular Visible Light Communication with Multiple LED Transmitters and an Event-Based Camera**
Ryota Soga, Nagoya University; Tsukasa Shimizu, Toyota Motor Corporation; Shintaro Shiba, Quan Kong, Woven by Toyota, Inc.; Shan Lu, Takaya Yamazato, Nagoya University

4 **Consistently Low-Latency V2N2V Communications Using Multi-Band Redundant Radio Access and SRv6 MUP**
Manabu Mikami, SoftBank Corp.; Jin Nakazato, Tokyo University of Science; Satoru Matsushima, SoftBank Corp.

5 **Distributed Digital Twin-Driven Deep Reinforcement Learning for Energy-Efficient Task Offloading in Vehicular Edge Networks**
Takhona Mbingo, Shruti Lall, Sunil Maharaj, University of Pretoria

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8A: RIS 1

1 **Shadowing-based Sensing of Mobile Blockers via Dual-Beam RIS Scanning of Ambient mmWave Radio Sources**
Tan-Tho LUC, University of Grenoble Alpes, CEA-Leti; Francesca Costanzo, Antonio Clemente, CEA-Leti; Benoît Denis, CEA-Leti Minatec

2 **Meta-Learning-Enabled Multi-Agent Reinforcement Learning for Joint Deployment, Orientation, and Resource Optimization in Hardware-Impaired Multi-RIS Systems**
Po-Chen Wu, Chih-Yuan Kao, Yu-Ting Li, Kai-Ten Feng, National Yang Ming Chiao Tung University; Zhi Ding, University of California at Davis; Jen-Ming Wu, Hon Hai Research Institute

3 **Practical RIS-Assisted RF Energy Harvesting via Hierarchical Beam Search and Tracking**
Liuqun ZHAI, Junyi Wang, Hongyao Liu, City University of Hong Kong

4 **Energy-Efficient Uplink Power Design in RIS-Enabled Mobile User Communication Systems with Learning-Based Channel Prediction**
Seungcheol Oh, Taewoo Park, Korea University; Arman Ahmadian, Yonsei University; Sean Seok-Chul Kwon, California State University Long Beach; Seong-Lyun Kim, Yonsei University; Joongheon Kim, Korea University

5 **RIS-Assisted Cell-Free Massive MIMO: RIS-MS Selection in FR1 and FR3**
Alejandro de la Fuente, Fernando Galindo, Uriel García-Bárbulo, Sandra-Noemy Arana-Alegre, Jan García Morales, Universidad Rey Juan Carlos

Friday, 12 June 2026 14:00 - 15:30 Lympia A-2

8B: Localization

1 **Hybrid TRP-UE Sensing for Enhanced Target Localization**
Necati Kagan Erkek, Marco Di Renzo, King's College London; Arman Shojaeifard, Yasser Mestrah, Remun Koirala, Mohammad Heggo, Kunjan Shah, InterDigital

2 **Disentangled Representation Learning for User Localization in Dual-Polarized Systems**
Shuwen Yu, Wei Xu, Southeast University; Wei Shi, Purple Mountain Laboratories; Derrick Wing Kwan Ng, University of New South Wales; Naofal Al-Dhahir, University of Texas at Dallas

3 **GNN-Assisted Handover Measurement Reduction in 5G Networks Using Geolocation Information**
Wei-Han Zheng, National Central University; Sheng-Shih Wang, Lunghwa University of Science and Technology; Shiann-Tsong Sheu, National Central University

4 Lightweight Channel Chart Informed Transformer for Localization
Hanjun Park, Pohang University of Science and Technology; Pere Garau Burguera, Hanan Al-Tous, Aalto University

Friday, 12 June 2026 14:00 - 15:30 Lympia A-3

8C: Integrated Sensing and Communication 3

1 Relay-Assisted ISAC Networks: Secrecy, Reliability, and Detection Insights
Claire Naiga Serugunda, Angela Doufexi, Robert Piechocki, University of Bristol

2 Configuration Tuning for ISAC: Cost-Efficient Adaptation via RACE-CMA
Ashkan Jafari Fesharaki, University of Surrey; Yasser Mestrah, InterDigital; Ibrahim Hemadeh, InterDigital Europe, Ltd; Yi Ma, University of Surrey; Mohammad Heggo, Arman Shojaeifard, Ahmet Serdar Tan, InterDigital; Rahim Tafazolli, University of Surrey; Alain Mourad, InterDigital Communications

3 Noncoherent Bistatic Integrated Sensing and Communications-Part I: Decoding and Estimation
Husheng Li, Purdue University

4 Secrecy Optimization with ISAC-Enabled Cooperative Jamming for Vehicular URLLC
Emmanouel T. Michailidis, Ioannis Voyiatzis, Nikos Miridakis, University of West Attica

5 ISAC Performance Trade-off Through a Unified Information-Theoretic Metric
Jiebo Shuai, Xiping Wu, Cheng-Xiang Wang, Southeast University

Friday, 12 June 2026 14:00 - 15:30 Lympia B-1

8D: MIMO and Beamforming

1 Acceleration of MU-MIMO Proportional Fairness Scheduling using a Neural Network with Variable-User Support
Achille Jacquemond, Fujitsu Limited; Natsuki Morita, Fujitsu limited; Masatoshi Ogawa, Fujitsu Limited

2 Robust Hybrid Beamforming with Liquid Crystal Antennas and Liquid Neural Networks
Xinquan Wang, Mingjun Ying, New York University; Hongren Chen, Pennsylvania State University; Guanyue Qian, Xingchen Liu, Peijie Ma, Dipankar Shakya, New York University; Christos Argyropoulos, Pennsylvania State University; Theodore S. Rappaport, New York University

3 Sparse Newton Neural Detection for Massive MIMO Systems
Chia-Hsun Li, Mao-Hsu Yen, Hoang-Yang Lu, National Taiwan Ocean University; Jiann-Horng Chen, National Taipei University

Friday, 12 June 2026 14:00 - 15:30 Lympia B-2

8E: Edge Technologies & Offloading

1 Real-World Modeling of Computation Offloading for Neural Networks with Early Exits and Splits
Jan Daněk, Zdenek Becvar, Adam Janes, Czech Technical University in Prague

2 Decentralized Swarming Approach for Over-the-Air Phase Synchronization of Distributed Radio Nodes
Mahmoud Kabir, Mikko Valkama, Tampere University; Bo Tan, University College London

3 Energy-Efficient Cooperation in Multi-Connected Tethering Group for XR Applications
Muhammad Ahsen, Aalborg University; Stefano Paris, Nokia, Paris, France; Boyan Yanakiev, Claudio Rosa, Nokia; Ramoni Adeogun, Aalborg University

4 Quality-Aware Joint Computing and Communication Optimization in Wireless Edge Networks for AI Services with Slimmable Neural Networks
Chun-Hao Chang, Ming-Chun Lee, Bo-Hong Su, National Yang Ming Chiao Tung University

5 On Mobility Load Balancing Opportunities in Real 5G Scenarios
Martin Trullenque, i2CAT Foundation; Oriol Sallent, David Reiss, Universitat Politecnica de Catalunya; Daniel Camps-Mur, Jad Nasreddine, i2CAT Foundation

Friday, 12 June 2026 14:00 - 15:30 Lympia B-3

8F: M2M

1 To Update or Not: Adaptive Strategies for Time-Varying Update Delays in Edge Networks
Xiaohui Fan, Chenhui Tao, Wanlu Zhang, Jingjing Luo, Fu-Chun Zheng, Harbin Institute of Technology (Shenzhen); Lin Gao, Harbin Institute of Technology

2 Semantic-Aware Task Offloading for Embodied Agents in Edge-Enabled IoT Networks
Ernest Tan, Singapore Institute of Technology; A.S. Madhukumar, Nanyang Technological University

3 Performance of SCHC Compression in 5G Using Real-World Data
Amina, Alexander Pelov, Laurent Toutain, IMT Atlantique / IRISA; Xavier Lagrange, IMT Atlantique, IRISA; Yandi Liu, Romain Négrier, Fabien Courreges, XLIM / University of Limoges

Friday, 12 June 2026 14:00 - 15:30 Lympia C-1

8G: Integrated Networks (SAGIN, ISTN)

1 Load-Balanced Offloading in SAGIN with Civil Aircraft Edge Nodes: A Lyapunov-Primal-Dual Potential-Game Framework
Liu Feng, Du Bing, Guo Ziyang, University of Science and Technology Beijing

2 Spectrum Sharing in ISTNs: A Branching Deep Q-Network and Stackelberg Game Approach
Zhu Jincheng, Southeast University, Purple Mountain Laboratories; Li Fanzhe, Pan Zhiwen, Southeast University

Friday, 12 June 2026 14:00 - 15:30 Lympia C-2

8H: Power Systems

1 A Data-Driven Approach for Electric Vehicle Powertrain Modeling
Eymen Ipek, Virtual Vehicle Research Gmbh

2 Lorentz Force Induced Mechanical Deformation in High Current Automotive Electronics
Rao Morusupalli, Yuvam Kulkarni, Tuhin Sinha, Rivian and Volkswagen Group Technologies

3 Real-World Joint State Estimation of LiFePO4 Traction Batteries Using a Voltage-Clustered ECM and an Unscented Kalman-Bucy Filter
Johanna Orellana Iñiguez, Madson Cortes de Almeida, University of Campinas

Friday, 12 June 2026 14:00 - 15:30 Lympia D-1

8I: Vehicular & Edge Communication 2

1 Numerology-Persistence Coupling Performance in 5G NR-V2X Sidelink Communication
Alexey Rolich, Sapienza University of Rome; Mert Yildiz, University of Rome, La Sapienza; Asmad Bin Abdul Razzaque, Sapienza University of Rome; Ion Turcanu, Luxembourg Institute of Science and Technology - LIST; Alexey Vinel, Karlsruhe Intitute of Techology; Andrea Baiocchi, Sapienza University of Rome

2 Joint Broad-Range Null-Steering for Coordinated Multi-RSU MU-MIMO Transmission
Keishi Hijikata, Sojin Ozawa, Yuki Sasaki, Yuta Tsunoda, Jin Nakazato, Tokyo University of Science; Haruki Osaki, Tetsuya Iye, Kozo Keikaku Engineering Inc.; Kazuki Maruta, Tokyo University of Science

3 Cooperative Coded Matrix Multiplication in Secrecy-Constrained Vehicular Networks
Ahmad Tanha, Mohammad Reza Deylam Salehi, Monolina Dutta, Derya Malak, EURECOM

Friday, 12 June 2026 16:00 - 17:30 Lympia A-1

9A: RIS 2

1 **Hardware-Constrained RIS Optimization for MU-MIMO Systems with Nonlinear Power Amplifiers**
Bin Liu, Rafael F. Schaefer, Gerhard P. Fettweis, Barkhausen Institut, Technische Universität Dresden

2 **Joint Beamforming Design and ORIS Configuration for Optical RIS-based VLC Systems**
Zhiyi Zhu, Jianfei Hu, Ruiding Hou, Chen Sun, Jiaheng Wang, Southeast University

3 **RIS Control Framework for Coverage Enhancement in 5G/6G Networks**
Sergio Zapata, J. Joaquin Escudero-Garzas, Gradiant

4 **Defending Against Malicious Wi-Fi Activity Recognition via Signal Obfuscation using Intelligent Reflecting Surface**
Yi-Hung Chiang, Chun-Cheng Su, Hung-Yun Hsieh, National Taiwan University

5 **A Learning-driven Design for Weighted Sum Rate Maximization of MU-MISO Multi-RIS-aided Systems with Hardware Impairments**
Yi-Fan Liu, Jiun-Hung Yu, Ming-Chun Lee, National Yang Ming Chiao Tung University

Friday, 12 June 2026 16:00 - 17:30 Lympia A-2

9B: V2X & Robotics

1 **Bistatic Lane Detection in a Highway Entry Scenario using Maximum a Posteriori Estimation**
Jan-Steffen Gröneweg, Soheil Gherekhloo, Robert Bosch GmbH; Maximilian Lübke, Friedrich-Alexander-Universität Erlangen-Nürnberg; Norman Franchi, Friedrich-Alexander-University, Erlangen-Nurnberg (FAU)

2 **Exploring LLM in Semantic Communication for V2X Networks**
Sihem BAKRI, Navdeep Singh, Nicola Marchetti, Trinity College Dublin

3 **Network-Co-Designed Dynamic Sparsification for Dependable Distributed Robot Learning over 3GPP Networks**
Géza Szabó, Boldizsár Bunda, Ericsson Ltd.

4 **Energy-Efficient UAV-assisted LoRa Gateways: A Multi-Agent Optimization Approach**
Abdullahi Isa Ahmed, University Mohammed VI Polytechnic; Jamal Bentahar, Khalifa University; El Mehdi Amhoud, Mohammed VI Polytechnic University

5 **Joint Task Offloading and Resource Optimization for MIMO-OFDM Vehicular Networks with Integrated Sensing, Computing, and Communication**
Ming-Hsiang Ku, Ming-Chun Lee, Yu-Chih Huang, National Yang Ming Chiao Tung University

Friday, 12 June 2026 16:00 - 17:30 Lympia A-3

9C: Integrated Sensing and Communication 4

1 **Secure Multi-Device Edge Inference through MCR2-Based ISCC Optimization**
Jiacheng Yao, Southeast University; Guangxu Zhu, Shenzhen Research Institute of Big Data; Wei Xu, Southeast University; Wei Shi, Purple Mountain Laboratories

2 **Energy model for Integrated Sensing and Communication 5G NR Base Stations**
Esther Guerin, National Institute of Standards and Technology

3 **Joint Time Scheduling and Reflection Control for Secure and Fair Symbiotic Communication**
Chi Jin, University of Jyvaskyla; Mingan Luan, Northeast Normal University; Fengye Hu, College of Communication Engineering, Jilin University; Byungjin Cho, Korea University; Ilkka Pölönen, University of Jyvaskyla; Zheng Chang, University of Jyväskylä

4 **Intelligent Robust Integrated Sensing and Communications Precoding in Cell-Free with Team Style**
Ziyao Hong, Southeast University; Ting Li, Nanjing University of Posts and Telecommunications; Shu Xu, Southeast University; Chunguo Li, Southeast University, Nanjing, China; Dongming Wang, Southeast University

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9D: Resilience & Security

1 **Experimental Evaluation of Downlink Throughput Prediction Technology Utilizing Base Station Data in Public Cellular Systems**
Keisuke Wakao, NTT

2 **Lag-Aware Multi-Horizon PRB Load Forecasting for RAN Operations**
Hamza Abbar, CentraleSupélec, Paris-Saclay University; Imed Hadj-Kacem, Orange; Maroua Drissi, Orange Labs; Salah Eddine Elayoubi, CentraleSupélec

3 **RF Fingerprint Identification: Unveiling Device versus Manufacturer Signatures**
Juhani Sankari, Roman Klus, Simona Lohan, Mikko Valkama, Tampere University

4 **SiameseNet-WSN: Deep Learning for Wireless Sensor Network Topology Inference**
Jieyu Gao, Jie Li, Qihui Wu, Youbiao Wu, Haikuo Xu, Nanjing University of Aeronautics and Astronautics

Friday, 12 June 2026 16:00 - 17:30 Lympia B-2

9E: RF Techniques

1 **Log-Mu Fading Process: Second-Order Statistics for Diversity-Combining Techniques**
Godfred Kumi Tenkorang, Michel Yacoub, State University of Campinas

2 **Sparse Selection of Natural Modes from the Cross-Spectral Density Tensor of an RF Multiport System for Indoor Device-Free Multi-Human Counting**
Frank Ebong, Andrea Tonello, University of Klagenfurt

3 **Training-Free Constraint-Guided Diffusion for One-Shot Path Loss Map Estimation**
Yuuki Tachioka, Denso IT laboratory

4 **Hybrid Beamforming Design for Near-Field Integrated Sensing and Communications**
Hao Dong, Chenhao Qi, Kangjian Chen, Southeast University

Friday, 12 June 2026 16:00 - 17:30 Lympia B-3

9F: Underwater Communication

1 **Deep Learning Spectrum Sensing Under Correlated Snapping Shrimp Noise**
Luiz G. B. Guedes, Inatel; Pedro Marcio Raposo Pereira, Felipe Augusto Pereira de Figueiredo, Rausley Adriano Amaral de Souza, National Institute of Telecommunications (Inatel)

2 **Enhancing Single-Carrier DFE Performance in Underwater Acoustic Communications under Non-Gaussian Impulsive Noise**
Hiroyuki Fukumoto, Takumi Ishihara, Yosuke Fujino, NTT Inc.

3 **A Massive MIMO OFDM Transmission Scheme Robust to Doubly Selective Channels in Underwater Acoustic Communications**
Shuji Nonaka, Kota Koyano, Ayaka Saeki, Tokyo University of Science; Daisuke Hisano, The University of Osaka; Mitsuyasu Deguchi, Yukihiro Kida, Takuya Shimura, Japan Agency for Marine-Earth Science and Technology; Kazuki Maruta, Tokyo University of Science

Friday, 12 June 2026 16:00 - 17:30 Lympia C-1

9G: Vision Systems

1 **Automotive SAR Image Enhancement via Joint Autofocus and Sparse Optimization**
Kun Deng, Chenxiao Yin, Zhanye Chen, Southeast University; Jie Li, Nanjing University of Aeronautics and Astronautics; Yan Huang, Southeast University

2 **Reliable Identification of Visual Obstructions in Automotive Cameras**
Tim Dieter Eberhardt, Karlsruhe Institute of Technology; Matthias Klingler, HS Kempten; Tim Brühl, Tin Stribor Sohn, Tim Alexander Bader, Maximilian Dillitzer, Porsche AG; Stefan-Alexander

Schneider, HS Kempten; Wilhelm Stork, Karlsruhe Institute of Technology

3 Simulating the Invisible: Learning Realistic Opaque Soiling for Automotive Cameras
Tim Dieter Eberhardt, Karlsruhe Institute of Technology; Tim Brühl, Tin Stribor Sohn, Tim Alexander Bader, Maximilian Dillitzer, Porsche AG; Wilhelm Stork, Karlsruhe Institute of Technology

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9H: Vehicular Telematics

1 SDVDiag: Using Context-Aware Causality Mining for the Diagnosis of Connected Vehicle Functions
Matthias Weiß, Falk Dettinger, Elias Detrois, Nasser Jazdi, Michael Weyrich, University of Stuttgart

2 MILP-based Thermal-aware DNN Partitioning for In-Vehicle Embedded Systems
Takumi Endo, Hiroki Nishikawa, Ittetsu Taniguchi, Takao Onoye, Osaka University

3 White-Box Neural Ensemble for Vehicular Plasticity: Quantifying the Efficiency Cost of Symbolic Auditability in Adaptive NMPC
Enzo Nicolás Spotorno Bieger, Matheus Wagner, Antônio Augusto Medeiros Fröhlich, Federal University of Santa Catarina

Virtual Papers

Wednesday 10 June 2026

Wednesday, 10 June 2026 11:00 - 12:30 Online

1V: Machine Learning for Communications

1 Federated Meta-Learning-Driven AI Transceivers: Rapid Adaptation and Multi-User Collaboration
Donghang Liu, Dou Li, Chunhang Zheng, Peking University

2 Byzantine-Robust Vehicular Federated Learning via Directional Dual-Consistency
Yilei Xue, Jianhua Li, Shanghai Jiao Tong University; Heyi Zhang, Shanghai JiaoTong University

3 BLER-Oriented Deep Channel Estimation using LLR-MSE Loss
Yoshinobu Iimura, Masatoshi Ogawa, Takashi Seyama, Fujitsu; Nobukazu Fudaba, 1 Finity inc.

4 Unified Communication Anti-Interference Algorithm Employing Blind Source Separation Under Strong Adversarial Conditions
Yingxi Li, Yulong Gao, Xiaodong Li, Harbin Institute of Technology

5 Amortized Neural SVD for XL-MIMO: Structure-Guided Factor Prediction for Beamforming and Multi-Stream Utility
Yue Zhang, Xidian University; Yiyan Zhang, Xi'an Jiaotong University; Ruijin Sun, Honggang Jia, Chen Gong, Xidian University

6 Dual-Timescale Deep Reinforcement Learning for Service Caching and Offloading in AAV-Assisted MEC Networks
Qian Liu, Qimin Liu, Zhenggang Zhou, Qilie Liu, Chongqing University of Posts and Telecommunications

7 FSAE-MSC: A Fault-Specific Adaptive Ensemble Framework with Multi-Stage Correction for Wireless Base Station Diagnosis
Jiachen Wang, University of Chinese Academy of Sciences

8 AI-driven Measurement Analog Beamforming for Hybrid Extreme MIMO
Gregory Morozov, Alexei Davydov, Gregory Ermolaev, Seunghyun Lee, Sundo Kim, Samsung Research

9 Unsupervised Clustering of 5G Multi-User Resource Blocks via Hyperspherical Metric Learning
Wenjie Ma, Southeast University; Renjie Xie, Nanjing University of Posts and Telecommunications; Linning Peng, Aiqun Hu, Southeast University

10 Self-supervised Blind Detection in LTV-MIMO Channels
Iresha Amarasekara, Aveek Dutta, University at Albany SUNY

11 MoE-DIR: A Dynamic SNR-Adaptive Framework for Drone Individual Recognition from RF Signals
Junzheng Wang, Yao Shi, Harbin Institute of Technology (Shenzhen); Emad Al-Susa, Manchester University; Yiping Duan, Tsinghua University

12 Boundary-aware Outlier Synthesis and Detection for Open-set Modulation Recognition
Wenyu Wang, Ouqiao Ma, Lei Zhu, Army Engineering University of PLA; Yuantao Gu, Tsinghua University

13 A Dual-Branch Decoder Based Deep Learning Model for Cross Frequency Dynamic Channel Reconstruction in 6G
Ke Chen, Pan Tang, Peijie Liu, Gaofeng Nie, Tian Lei, Zhang Jianhua, Beijing University of Posts and Telecommunications

14 Attention-Guided Graph Neural Networks for RL based Resource Allocation in NR-V2X
Zidan Yang, Binjie Hu, South China University of Technology

15 Safe Reinforcement Learning for SD-WAN Traffic Engineering via Uncertainty-Aware Neural CBFs
Ghoshana Bista, Université Côte d'Azur; Kamal Singh, Universite de Saint-Etienne, Jean Monnet; Alain Pégatoquet, Université Côte d'Azur; Emmanuel Moulay, Université de Poitiers

16 PINN Based Measurement Calibration for Underwater Acoustic Channel Knowledge Maps
Zhaoyang Lin, Jintao Wang, Zhi Sun, Tsinghua University

17 Multi-Agent Reinforcement Learning for Autonomous Drone Coordination in Smart Manufacturing Environments
Nesrine Maatouk, Asma Ben Letaifa, SupCom; Abderrezak Rachedi, Computer Science Lab.(LIGM UMR8049) CNRS

Wednesday, 10 June 2026 14:00 - 15:30 Online

2V: Emerging Technologies, 6G and Beyond

1 Feedback-Free Jamming Cognition for ISAC
Zhenyao He, Ying Liu, Yusi Zhang, National University of Defense Technology; Hong Shen, Wei Xu, Southeast University

2 Fully Asynchronous Semi-Decentralized Federated Learning with Markov Chain Client Updates
Changheng Wang, Beijing University of Posts and Telecommunications; Xianchao Zhang, Jiaxing University; Zhiqing Wei, Beijing University of Posts of Telecommunications; Lingzhu Zhao, Northwestern Polytechnical University; Feng Zhiyong, Beijing University of Posts and Telecommunications

3 Joint Trajectory and Resource Optimization for Spectral Efficiency and Fairness in NOMA-UAV Networks via DRL
Benmeziane Imad-Ddine Ghomri, University of Tlemcen; Hmaied Shaiek, CNAM

4 Design and Prototype Validation of Multi-Node Cooperative Sensing for Target Trajectory Tracking
Jianzhi Li, Baolong Chen, Shengli Ding, Dajie Jiang, vivo Mobile Communication Co., Ltd.

5 **Conductor: A Job-driven and Network-Aware Scheduling Mechanism for Profit-Maximizing Geo-Distributed Training**
Hao Jiang, Shanghai Jiao Tong University; Meng Qin, Peng Cheng Laboratory; Yuqian Ren, Zhiguo Shi, Zhejiang University; Dandan Liang, Peng Cheng Laboratory

6 **Meta-Learned Routing in Dynamic LEO Satellite Networks: A Discovering Reinforcement Learning Approach**
Yuzheng Ren, Yangyang Hu, Haijun Zhang, Yuxin Luo, University of Science and Technology Beijing; Fei Richard Yu, Carleton University; Xueyan Cao, Inner Mongolia University

7 **Realization of a Fully Connected Neural Layer Over-the-Air through Multi-hop Amplify-and-Forward Relays**
Tolga Girici, TOBB University of Economics and Technology; Meng Hua, Deniz Gunduz, Imperial College of London

8 **Adaptive KVCache Compression and Streaming for Cross-WAN PD Disaggregated LLM Inference**
Jiaqian Man, Jia Chen, Beijing Jiaotong University; Chengxiao Yu, Peng Cheng Laboratory; Xu Huang, Chenxi Liao, Dongsheng Qian, Shang Liu, Beijing Jiaotong University; Bohua Xu, Dongyue Zhang, China Unicom

9 **Resource Optimization for Movable Antenna-Enabled Near-Field OFDM ISAC Systems**
Qingxia Feng, Southeast University; Meng Hua, Imperial College London; Chunguo Li, Yongming Huang, Luxi Yang, Southeast University

10 **Analysis and Optimization of PAoI and FCT Under MLFQ Scheduling in Data Center Networks**
Handa Xia, Wen Zhan, Xinghua Sun, Sun Yat-sen University; Pei Liu, Wuhan University of Technology; Zhiguo Zhan, ZTE Corporation

11 **Transceiver Design for Wideband MIMO-OFDM ISAC Systems**
Yating Chen, Southeast University; Cai Wen, Northwest University; Jie Li, Nanjing University of Aeronautics and Astronautics; Wenjin Wang, Yan Huang, Southeast University

12 **Transmit Precoder Optimization for Bistatic ISAC Scenario**
Pedro Victor Martins Castro, Federal University of Ceará; Walter Cruz, UFC; Francisco Rodrigo Porto Cavalcanti, Wireless Telecom Research Group (GTEL), Federal University of Ceara

13 **Proactive Compute-Memory Co-Orchestration for Robust Point Cloud Streaming on Mobile Devices**
Wentao Cui, Jia Chen, Beijing Jiaotong University; Chengxiao Yu, Peng Cheng Laboratory; Xu Huang, Chenxi Liao, Dongsheng Qian, Shang Liu, Beijing Jiaotong University; Qi Liu, China Unicom Company; Meng Song, Smart City Research Institute

14 **Representation Alignment via Reference Distributions for Non-IID Federated Learning**
Xiaodong Li, Yulong Gao, Yingxi Li, Harbin Institute of Technology

15 **Quantum-Regularized Hybrid Beamforming for Next-G Metasurfaces**
Shikhar Bhattarai, Dn Pokhrel, Hyuck M. Kwon, Wichita State University

16 **Adaptive and Robust Personalized Federated Learning with Knowledge-Driven Logits Interaction for Secure Edge Intelligence**
JiangJiang Zhang, Shanxi University; Muhammad Waqas, University of Greenwich; Shanshan Tu, Beijing University of Technology; Akhtar Badshah, University of Malakand; Muhammad Taimoor Khan, George Loukas, University of Greenwich

17 **Model-Alignment Personalized Federated Learning: Tackling Gradient Conflict for Fast Convergence**
Tingting Liu, Shaopeng Dong, Chenyang Yang, Beihang University

18 **RIS-Assisted Cooperative ISAC for Low-Altitude Economy**
Ying Zhang, Zeqi Hao, Xu Zhu, Tingting Zhang, Harbin Institute of Technology (Shenzhen)

19 **Joint Channel and Velocity Estimation for OTFS-Based CF-mMIMO ISAC Systems: A Robust Approach**
Wenbo Xiong, Ziheng Li, Tong Wang, Lin Gao, Harbin Institute of Technology; Yufei Jiang, Harbin Institute of Technology (Shenzhen)

20 **CARL: A CRB-Aware Rank-1 Leakage Algorithm for BFI-based Occupancy Sensing**
Zhiyuan He, Zhenyu Ruan, Shanyi Ke, Desheng Wang, Huazhong University of Science and Technology; Mahmoud M. Salim, King Fahd University of Petroleum and Minerals; Zhijun Wang, Zhiben Zhang, FiberHome Telecommunication Technologies Co., Ltd

21 **Dynamic Attention-Convolution Selection Module for YOLO-based Object Detection**
Ala Eddine Hsairi, University of Carthage

22 **Deep Learning-Based Fractional Time-Frequency Synchronization for OTFS Systems in Delay-Doppler Domain**
Meiwen Men, Tao Zhou, Kaifeng Bao, Beijing Jiaotong University; Zhiyang Guo, University of Science and Technology of China; LiuLiu, Beijing Jiaotong University

23 **Device Selection and AP Association for Scalable Cell-Free Federated Learning with Non-IID Data**
Zhihao Dong, Xu Zhu, Jie Cao, Harbin Institute of Technology, Shenzhen; Danny Huang, China Mobile Group Guangdong Co., Ltd.; Ziming Guo, Harbin Institute of Technology, Shenzhen; Vincent K. N. Lau, The Hong Kong University of Science and Technology

Wednesday, 10 June 2026 16:00 - 17:30 Online

3V: Signal Processing for Wireless Communications, Cooperative Communication

1 **Low-Complexity Bayesian Learning with Adaptive Matrix Optimization for OTFS Channel Estimation**
Xueping Lan, Xiaoxu Zhang, Southwest Jiaotong University; George Karagiannidis, Aristotle University of Thessaloniki; Ming Xiao, KTH; Jinfu Li, Zheng Ma, Southwest Jiaotong University

2 **Doppler Compensation and Tracking Techniques for OTFS Systems in LEO Satellite Channels**
Tzu-Yuan Liu, National Yang Ming Chiao Tung University; Shang-Ho Tsai, National Chiao Tung University; Jen-Ming Wu, Hon Hai Research Institute

3 **Three-Dimensional Azimuth Estimation Method Based on Cylindrical Uniform Circular Array**
Yuan Ning, Jingran Huang, Xiang Ji, Wanming Hao, Zhengzhou University

4 **Joint Channel Estimation and Signal Detection for OTFS Systems via U-Net-Assisted BiG-AMP**
Jie Huang, Qiuyang Hu, Chongbin Xu, Fudan University

5 **DiP-SD: Distributed Pipelined Speculative Decoding for Efficient LLM Inference at the Edge**
Yaodan Xu, Sheng Zhou, Tsinghua University; Zhisheng Niu, Tsinghua University, China

6 **Performance Analysis of Multi-IRS-Assisted Integrated Sensing, Communication, and Power Transfer Systems**
Fei Xu, Xueyan Cao, Gerile Ge, Shuqi Li, Inner Mongolia University

7 **Joint Beamforming Design for Trade-Off Metric Maximization in MF-RIS-Aided ISAC System**
Liyi Wang, Yuan Cao, Wei Peng, Huazhong University of Science and Technology

8 **Low-Complexity Signal Scrambling Aided ODMA for Unsourced Multiple Access**
Jianxiang Yan, Mengnan Hao, Ying Li, Guanghui Song, Xidian University

9 **Horseshoe-based VBI-SBL for Channel Estimation in Windowed LEO Satellite OTFS Systems**
Chaoqun Cao, Southeast University; Yuntao Hu, China Mobile (Hangzhou) Information Technology Co., Ltd.; Haifeng Wang, Shanghai Institute of Microsystem and Information Technology,

CAS; Yihan Cang, The University of Hong Kong; Jingwen Xu, Nanjing Normal University; Chen Ming, Southeast University

10 Short-Blocklength Convolutional Codes in RIS-Assisted Wireless Systems with a Direct Link
Monolina Dutta, IIT Bhubaneswar; Soumya P. Dash, IIT Bhubaneswar, India

11 Unrolled LDPC Decoder with Full Coderate Flexibility Achieving 1628 Gb/s in 28 nm CMOS
Lukasz Lopacinski, Yiyun Jian, Muhammad Nauman, Pukar Shakya, Goran Panic, Milos Krstic, IHP - Leibniz-Institut für innovative Mikroelektronik; Eckhard Grass, IHP, Germany and HU, Berlin

12 Double Linear Orthogonal AMP
Yufei Chen, Xidian University; Lei Liu, Zhejiang University; Yuhao Chi, Ying Li, Xidian University; Guan Yong Liang, Nanyang Technological University

13 Delay Analysis of User-Centric Cell-Free Networks with Queuing Dynamics
Ke Yue, Junyuan Wang, Tongji University

14 Sensing-Aware Water-Filling: Optimal Power Allocation for Parkinsonian Tremor Monitoring in OFDM-ISAC
Yitong Zhang, Beijing Institute of Technology; Xiao Liu, Beijing University of Posts and Telecommunications; Chenxuan Wu, Hongzhen Pan, Zhaolan He, Hongfei Xu, Zhaorong Huang, Yongyi Dou, Beijing Institute of Technology; Xiqing Liu, Beijing University of Posts and Telecommunications

15 Movable Antenna Array-Enabled Anti-Jamming Secure Wireless Communication
Zhihui Shang, Xiangjun Yan, Zhiqiang Xiao, Xiaoqiang Qiao, Hao Wu, Tao Zhang, National University of Defense Technology

16 Blind Turbo Demodulation for Differentially Encoded OFDM with 2D Trellis Decomposition
Chin-Hung Chen, Eindhoven University of Technology; Yan Wu, NXP Semiconductor; Wim van Houtum, Alex Alvarado, Eindhoven University of Technology

17 Practical Resource Allocation Based on SAB-semantic for Multi-User RIS-Aided Semantic Communications with Discrete Phase Shifts
Shih-Jung Hsu, Po-Yen Lin, National Tsing Hua University; Chih-Yu Wang, Academia Sinica; Wei-Ho Chung, National Tsing Hua University, Taiwan, R.O.C.

18 Constraint Programming Based Multi-Queue Time-Sensitive Frame Aggregation Scheduling
Xiayue Liu, Jiaqi Zuo, Xu Zhu, Yufei Jiang, Yuanqing Li, Harbin Institute of Technology (Shenzhen); Vincent K. N. Lau, The Hong Kong University of Science and Technology

19 Downlink Reference Signal Configuration for Massive MIMO by User Grouping
Hao Liu, Nokia; Yaqiong Zhao, Nokia Shanghai Bell; Fei Gao, Nokia

20 LO-Free Joint Communication and Sensing via Spatial Phase Manifold Communications
Hasan Atalay Gunel, TÜBİTAK BİLGEM; Mohaned Chraiti, Sabanci University; Ali Gorcin, Istanbul Technical University

21 Design of an Iterative Detection and Decoding Receiver for LDPC-Coded Visible Light Communication
Yu-Hao Kuo, National Tsing Hua University; Shan Lu, Takaya Yamazato, Nagoya University; Yeong-Luh Ueng, National Tsing Hua University

Thursday 11 June 2026

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4V: Transport Electrification, Vehicular Electronics, Intelligent Transport Systems

1 Improving End-to-End Autonomous Vehicle Steering Control Through Activation and Filtering Selection in DAVE-2 CNN Models
Mohamed Elshall, Jeremiah Neubert, University of North Dakota

2 BlockSecRT-DETR: Secure and Efficient Federated Transformers for Real-Time Object Detection in ITS
Mohoshin Ara Tahera, Sabbir Rahman, Shuvalaxmi Dass, University of Louisiana at Lafayette; Sharif Ullah, University of Central Arkansas; Mahmoud Abouyessef, North Carolina A&T State University,

3 CEEMDAN-Driven Deep Learning for High Temporal Resolution EV Charging Load Forecasting: A Comprehensive Benchmark Study
mamunur Rashid, Tennessee Tech university; Nan Chen, University of Ottawa; Syed Ali Asad Rizvi, Tennessee Technological University

4 BiMamba-GD: Integrating Graph Diffusion Convolution and Bidirectional Selective State Space Model for Vessel Traffic Flow Forecasting
Songming Liu, Tong Wang, Guangxin Yang, Min Ouyang, Tianfang Lv, Jiale Li, Shan Gao, Liwei Chen, Harbin Engineering University

5 Synthesizing Continuous-Curvature Road Geometry from Lane Markings and Navigation Maps
Yuheng Wang, Michael Rehme, Marc Necker, Mercedes-Benz AG; Volker Schwieger, University of Stuttgart

6 AFER: A Multi-View Radar Fusion Framework via Axial Feature Extraction and Reconstruction
Zongyuan Zhang, Yao Shi,; Yunxu Sun, Harbin Institute of Technology (Shenzhen); Jie Deng, PengCheng Laboratory; Nanchi Su, Harbin Institute of Technology (Shenzhen)

7 A Kaya-like identity for decomposing and assessing business models for workplace and public electric vehicle charging
Param Somane, Ryan Hanna, University of California San Diego

8 Sample-Efficient Multi-Agent Traffic Signal Control with Federated Global Consensus Prediction
Xiaoyang Zhang, Chen-Khong Tham, National University of Singapore

9 Enhancing Privacy-Preserving Capability of In-Vehicle LLM-Empowered Agents on Contrastive Instruction-Tuning
Yihang Wu, Junxiang Chang, Fudan University; Zhijun Yuan, Qin Su, Yang Zhang, Seres Automotive Co., Ltd.; Qiang Duan, The Pennsylvania State University; Xin Wang, Yang Chen, Fudan University

10 A Multi-Modal Fusion Framework for Vehicle-Infrastructure Cooperative 3D Object Detection
Cai Yang, Xin Huang, Yuanhang Zheng, Xuming Tian, Xinhong Wang, Chao Wang, Tongji University

11 SERA: A Scenario-Enhanced RAG Framework for In-Vehicle Intelligent Systems
Ye Cao, Ao Jiao, Fudan University; Zhijun Yuan, Erkang Xie, Yang Zhang, Seres Automotive Co., Ltd.; Qiang Duan, The Pennsylvania State University; Yang Chen, Fudan University

12 Efficient Time Series Transformer Architecture for Generalised Two-Wheeler Driving Event Recognition
Arihant Jain, Geethika Palla, Deepak Gangadharan, International Institute of Information Technology, Hyderabad

13 Joint Characterization of PWM Headlight and Event Camera Bias Parameters for Nighttime Object Detection
Leonard Haensel, HELLA GmbH & Co. KGaA; Torsten Bertram, TU Dortmund University

14 Energy-Aware Deep Reinforcement Learning for Adaptive Cruise Control under Communication Packet Loss
Shahriar Shahram, Yaser P. Fallah, University of Central Florida

Thursday, 11 June 2026 14:00 - 15:30 Online

5Va: Vehicular Communication, VehicularTelematics, Vehicular Cooperation, Autonomous Driving

1 Mixture-of-Experts Network for Edge-Cloud Autonomous Scene Detection
Aditya Viswakumar, P. Rajalakshmi, Indian Institute of Technology Hyderabad

2 Lightweight Geometric Foreground Perception for Roadside LiDAR with Unified Semantics
Yinkai Huang, Shanghai Institute of Microsystem and Information Technology; Jiahui Mao, Chong Tan, Hong Liu, Shanghai Institute of Microsystem and Information Technology CAS; Chunlei Zheng, Shanghai Institute of Microsystem and Information Technology; Min Zheng, Shanghai Institute of Microsystem and Information Technology CAS

3 Multi-Modal Sensor Fusion for Beam Prediction in RIS-Assisted Vehicular mmWave Systems
Ahmad Nazar, Iowa State University; Khalid Kanaan, Ahmed Nasser, King Abdullah University of Science and Technology; Mohamed Y. Selim, Iowa State University; Ahmed M. Eltawil, King Abdullah University of Science and Technology (KAUST)

4 Reliability-Constrained Dual-Path Scheduling of CAN-Ethernet Traffic in TSN Architectures
SwathigaVaishnave D, IIITDM Kancheepuram; Jaishree Mayank, Indian Institute of Technology (Indian School of Mines) Dhanbad; Sivaselvan B, IIITDM Kancheepuram

5 Secure Automotive Ethernet: Implementing and Benchmarking MACsec, IPsec, and TLS
Lukas Eugster, Technical University of Munich; Friedrich Wiemer, Robert Bosch GmbH; Mert D. Pesé, Clemson University; Mohammad Hamad, Sebastian Steinhorst, Technical University of Munich

6 Adaptive Compressed Sensing-Aided Channel and Motion Estimation in OTFS-ISAC Vehicular Systems
Pradeep Chennakesavula, Hon Hai Research Institute; Yan-Yun Chen, Jen-Ming Wu, National Tsing Hua University

7 Ergodic Capacity of Uncoordinated UAV-Backscatter Networks with Random Spectral Access
Hana Aljehani, University of Manchester; Abdelhamid Salem, University of Benghazi; Khairi Hamdi, University of Manchester; Khaled Rabie, KFUPM

8 Network-Level Bit-Flipping Attacks on Cooperative Adaptive Cruise Control in 5G Environment
Chengwei Duan, University of Florida; Joon Kim, University of California, Berkeley; Sandip Ray, University of Florida

9 Piecewise affine control with safety guarantees for railway virtual coupling
Mehdi Zangeneh, Peter Hubbard, Tim Harrison, James Fleming, Loughborough University

10 A Semantic-Communication-Aided Pillar-Voxel Feature Fusion Network for Vehicle-Infrastructure Cooperative 3D Object Detection
Xuming Tian, Yuanhang Zheng, Xin Huang, Cai Yang, Chao Wang, Tongji University

11 Latency-Aware Intelligent Handover Approach for Flying Vehicles in Low-Altitude Economy Networks
Sayantan Bose, National Institute of Technology Meghalaya, Sohra, India; Shikhar Verma, Kochi University of Technology; Mostafa Fouda, Idaho State University; Zubair MD Fadllulah, Western University Canada; Diptendu Sinha Roy, National Institute of Technology Meghalaya

12 SparseCoM: Fully Sparse Collaborative Perception via Mixture of BEV Experts
Chen Xia, Ziyi Song, Qianxin Qu, Tsinghua University; Guipeng Zhang, Chinese Academy of Sciences; Sheng Zhou, Zhisheng Niu, Tsinghua University

13 V2XState: Intent-aware Spatial Basis Attention for Cooperative End-to-end Driving
Dongyang Li, Ehsan Javanmardi, Manabu Tsukada, The University of Tokyo

14 TacitCollab: A Plug-and-Play V2X Safety Filter via Free-Form LLM Dialogue
Ye Tao, Manabu Tsukada, Hiroshi Esaki, The University of Tokyo

15 Occlusion-Aware Multimodal Beam Prediction and Pose Estimation for mmWave V2I
Abidemi Orimogunje, ACEIoT, University of Rwanda & Hanyang University; Hyunwoo Park, Kyeong-Ju Cha; Igbafe Orikumhi, Sunwoo Kim, Hanyang University; Dejan Vukobratovic, University of Novi Sad

16 RealSim-CP: A High-Fidelity Multimodal Cooperative Perception Dataset Bridging the Simulator-Real World Gap
Yuji Aizono, Ehsan Javanmardi, The University of Tokyo; Fardin Ayar, Mahdi Javanmardi, Amirkabir University of Technology; Manabu Tsukada, Hiroshi Esaki, The University of Tokyo

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5Vb: Vehicular and Wireless Testbeds and Proof-of-Concepts

1 Remote Assisted Driving in an Indoor 5G Testbed
Jakob Meißner, Johann Nikolai Hark, Bernd Schäufele, Daimler Center for Automotive IT Innovations (DCAITI); Ilja Radusch, Fraunhofer Institute for Open Communication Systems (FOKUS)

2 Scenario-Driven Evaluation of In-Vehicle Connectivity Using a Programmable Connectivity Controller
Victor Jarlow, Robert Brenick, Samuel Bach, Magnus Westling, AstaZero

3 Experimental Demonstration of an OFDM Physical Layer Secured by M-IDP and Assisted by a T-RIS
Khaled Tahkoubit, Jean-Baptiste Doré, Nicolas Cassiau, CEA-Leti

Thursday, 11 June 2026 16:00 - 17:30 Online

6Va: Space, Non-terrestrial, Airborne, and Maritime Mobile Systems and Services

1 Tracking-Free RAKE Receiver Based on Neural Networks for DSSS Signals over Shallow Water Acoustic Channels
Chenyu Zhang, Institute of Science Tokyo; Kazuhiko Fukawa, Tokyo Institute of Technology

2 Beam Scheduling for Multi-Connectivity NTN LEO D2C Satellite Networks
Junru Wang, Deyu Kong, Qing Guo, Harbin Institute of Technology; Giorgio Taricco, Politecnico di Torino

3 Joint Beam Hopping Pattern and Bandwidth Allocation for LEO : A Communication-Radio Map Sampling Trade-off
Songming Han, Zhaowei Wang, Nan Cheng, Ruijin Sun, Zhisheng Yin, Xidian University

4 Joint Optimization of Resource Allocation, Task Offloading and AAV Trajectory Planning in Hierarchical Aerial Computing Networks
Qian Liu, Guangyu Yang, Wenhan Jie, Qilie Liu, Chongqing University of Posts and Telecommunications

5 Dual-Connectivity-Assisted Task Offloading and Resource Allocation in SAGIN
Maoyang Qiu, Yao Shi, Harbin Institute of Technology (Shenzhen); Yiping Duan, Tsinghua University; Zhang Qinyu, Harbin Institute of Tech.

6 Adaptive ISAC-Based Predictive Beamforming for High-Speed UAVs with Jittering Effects
Xi Tao, Lin Ma, Liang Ye, Harbin Institute of Technology; Danyang Qin, Heilongjiang University

7 GAT-Enhanced Hybrid DRL for Resource Allocation in RSMA-Based Satellite Networks
Lingyun Wang, Yao Shi, Harbin Institute of Technology (Shenzhen); Yiping Duan, Tsinghua University

8 **Resilient 6G Railway Communications via UAV-Enabled ISAC: Challenges And Future Scope**
Aamer Mohamed Huroon, Li-Chun Wang, National Yang Ming Chiao Tung University

9 **A Communication-Based MARL Approach with Adaptive Variable-Length Messages for AoI-Optimal Multi-UAV Data Collection**
Yifei Cao, Yifei Zhang, Fan Zhang, Chao Xu, Northwest A&F University; Tony Q.S. Quek, Singapore University of Technology and Design

Thursday, 11 June 2026 16:00 - 17:30 Online

6Vb: IoT, M2M, Sensor Networks, and Ad-Hoc Networking

1 **Joint Design of Content Placement and Update in D2D-assisted Caching Networks**
Xuewei Zhang, Zhe Chen, Yuan Ren, Xi'an University of Posts and Telecommunications

2 **Floating Wireless Sensor Node Design and Experimental Validation for Large Water Bodies**
Moeen Ahmad Azam, Talha Manzoor, Naveed Ul Hassan, Lahore University of Management Sciences

3 **A Blockchain based Audit System for Secure and Traceable Vehicle-to-Everything Communications**
Marwa Slimene, Amira Chriki, Centre Inria de l'Université de Lille; Nathalie Mitton, INRIA Lille Nord Europe; Patrick Sondi, Ahmed Meddahi, Center for Digital Systems IMT Nord Europe

4 **Decentralized Sequential Detection of an Unknown Target Using Level-Triggered Sampling**
Li Hu, National University of Defense Technology

5 **Resource Allocation for UAV-Assisted Vehicular Edge Computing: A Hybrid DDPG Framework**
Jun Cui, Shubin Wang, Gerile Ge, Xueyan Cao, Inner Mongolia University

6 **Reliable Time-Aware Flow Scheduling for TSN-5G Networks via Improved White Shark Optimizer**
Zhuohang Li, University of Chinese Academy of Sciences; Chong Tan, Jiahui Mao, Shanghai Institute of Microsystem and Information Technology CAS; Chunlei Zheng, Shanghai Institute of Microsystem and Information Technology; Hong Liu, Min Zheng, Shanghai Institute of Microsystem and Information Technology CAS

7 **CERBERUS: A Self-Sovereign Identity-based Authorization Framework for Autonomous Vehicle**
Calogero Turco, University of Pisa; Marco De Vincenzi, IIT CNR; Andrea De Salve, ISASI-CNR; Ilaria Matteucci, Paolo Mori, IIT-CNR; Laura Emilia Maria Ricci, University Of Pisa

8 **Multi-Sensor Multi-Target Tracking with Out-of-Sequence Measurements**
Yunxiao Peng, Chengping Ma, Dongxu Song, Xiaoxiao Zhuo, Liang Tang, Yu Zhao, Shanghai Institute of Microsystem and Information Technology, CAS

9 **Graph-based IoT Traffic Classification with Adaptive Sample Length**
Chikako Takasaki, Tomohiro Korikawa, Takaaki Moriya, Kyota Hattori, Daisuke Ikegami, NTT, Inc.

10 **MKES: A MEC-Enabled Proximity-Based Keyless Entry System**
Sukhminder Singh, Sudeepta Mishra, IIT Ropar

11 **A Dual-Stream Temporal Feature Fusion Network for Multi-Class Traffic Flow Prediction**
Abia Abraham, Saintgits College of Engineering (Autonomous), Kottayam, India; Rahul Biju, Deepak Gangadharan, International Institute of Information Technology, Hyderabad

12 **DWFL-net: Dynamic Weighted Federated Learning for Wireless Interference Recognition in Fading IoT Networks**
Xiao Liang, Songhu Ge, Yu Guo, Zhongpu Cui, Yedi Xin, Naval University of Engineering

Friday 12 June 2026

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7V: Radio Access Technology and Heterogeneous Networks

1 **Resource Allocation Based on Improved Sparrow Search for SWIPT-Assisted C-NOMA Systems**
Yang Liu, Hanyu Yu, Yuming Wei, Enqi Wu, Jialong Zeng, Inner Mongolia University

2 **Dynamic Handover via AI-assisted Signal Quality Prediction in 6G Multi-RAT Networks**
Maria Lamprini Bartsioka, Anastasios Giannopoulos, Sotirios T. Spantideas, Panagiotis Trakadas, Four Dot Infinity

3 **Cost-Aware AoI Scheduling under Heterogeneous Average and Probabilistic Constraints: To Sample or to Retransmit?**
Jiale Wu, Haoyuan Pan, Shenzhen University

4 **Receiver Processing Techniques for Zak-OTFS with Superimposed Spread Pilot: A Comparison**
Fathima Jesbin, A Chockalingam, Indian Institute of Science, Bangalore

5 **Analysis and Compensation of Receiver IQ Imbalance and Residual CFO Error for AFDM**
Nimesha Gunasekara, Ebrahim Bedeer, University of Saskatchewan

6 **Hybrid Waveform Multiple Access for Power-Efficient Transmission**
Haowu Li, Lilin Dan, Jingqi Ran, University of Electronic Science and Technology of China

7 **A Semi-Blind Receiver for Time-Selective Channels Using Transformer-Based In-Context Learning**
Rahul Rajesh Singh, Samsung R&D India, Bangalore; A Chockalingam, Indian Institute of Science; Khushboo Mawatwal, Samsung Research India, Bangalore

8 **Frequency-splitting Constant-Envelope OFDM for Simultaneous Wireless Information and Power Transfer**
MengJie Chen, Lilin Dan, Haowu Li, University of Electronic Science and Technology of China

9 **Non-Orthogonal Constant Envelope OFDMA: System Design and Performance Evaluation**
Jingqi Ran, Lilin Dan, Haowu Li, Yue Xiao, University of Electronic Science and Technology of China

10 **Oversampled Zak-OTFS receiver with superimposed spread pilot**
Vineetha Yogesh, A Chockalingam, Indian Institute of Science, Bengaluru

11 **Phase-Aware Code-Aided EM Algorithm for Blind Channel Estimation in PSK-Modulated OFDM**
Chin-Hung Chen, Ivana Nikoloska, Wim van Houtum, Eindhoven University of Technology; Yan Wu, NXP Semiconductor; Alex Alvarado, Eindhoven University of Technology

12 **Graph Neural Networks for Vectors Optimization in Cell-Free Massive MIMO Systems with Mobility**
Chen Xu, Jie Zeng, Yuanchi Yao, Yuting Zhang, Zhicong Ye, Beijing Institute of Technology

13 **Coordinated Multi-Cell power control in Grant-Free NOMA for mMTC**
Nasim Ravi, Nuno Lourenço, Marilia Curado, University of Coimbra

Friday, 12 June 2026 14:00 - 15:30 Online

8Va: Antenna Systems, Propagation, and RF Design

1 **A Port-efficient Array Manifold Design Enabling Maximal Full-space Spatial Multiplexing**
Guohao Liu, Tsinghua University; Jun Luo, Lin Peng, Min Fang, ZTE Corporation; Zhi Sun, Tsinghua University

2 **Passive 60 GHz Azimuth Beam Steering via Binary ON/OFF Spatial Masking**
Swarnagowri Shashidhar, Amod Ashtekar, Mohammed E. Eltayeb, California State University, Sacramento

3 **Refined Bayesian Optimization for Beam Alignment Based on Real-World 60 GHz Indoor Measurements**
Parth Ashokbhai Shiroya, Amod Ashtekar, Swarnagowri Shashidhar, Mohammed E. Eltayeb, California State University, Sacramento

4 **RF testbed based on channel emulation for evaluation of 5G Non-Public Networks in railways**
Fátima Fernández, Aitor Arriola, Aitor Sanchoyerto, IKERLAN S. COOP.; Vanesa Serrano, CAF Signalling

5 **Channel Adaptive Digital Semantic Communications via Symbol Distortion Modeling**
Xunyang Zhan, Harbin Institute of Technology; Jie Cao, Harbin Institute of Technology, Shenzhen; Tianhao Guo, Shanxi University; Zhihao Dong, Xu Zhu, Harbin Institute of Technology (Shenzhen)

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8Vb: Protocol, Security and Services for Wireless Networks

1 **Exploiting DMRS Constellation Rotation for Low-Power Signal Overlay Attacks**
Shi Hu, Jian Wang, Shan Wang, PeiHao Song, Quan Peng, Junchao Feng, National University of Defense Technology

2 **Federated Transfer Learning for Behavioral Continuous Authentication in Connected Vehicles**
Okba Ben Atia, University of Technology of Belfort-Montbéliard; Mustafa Al Samara, Joaan Bin Jassim Academy for Defence Studies; Ismail Bennis, University of Haute Alsace

3 **Repairing Reed-Solomon Codes with Multiple Helper-Group Degrees**
Tao Wang, Zhiping Shi, Li Deng, University of Electronic Science and Technology of China; Juan Yang, Guilin University of Aerospace Technology

4 **Feature Extraction of Communication Jamming Signals Based on Quantum Density Matrix**
Jianyu Liu, Chengzhao Shan, Heng Dong, Zhuoming Li, Harbin Institute of Technology

5 **ShadowAuth: Uncovering 5G-AKA Vulnerabilities Using Signal Overshadowing**
PeiHao Song, Shan Wang, Junchao Feng, Quan Peng, Shi Hu, National University of Defense Technology

6 **Evaluating Lightweight IDS Models for CAN Bus Security on Embedded Platforms**
Naman Jain, Montclair State University; Inseo Hwang, University of Illinois Urbana-Champaign; Junggab Son, University of Nevada, Las Vegas; Daeyoung Kim, Montclair State University

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9Va: Satellite Systems, Positioning Technologies, Localization and Navigation

1 **A Secure and Dynamic Resource Allocation Framework in Multi-Service Satellite Communication System**
liu meiying, Ruohan Cao, Hui Gao, Beijing University of Posts and Telecommunications

2 **BeamSpaceNet: A Deep Learning Framework for RIS-Aided mmWave Indoor Localization with Continuous Orientation Estimation**
Varun Advani, Iowa State University; Ahmed Nasser, King Abdullah University for Science and Technology; Mohamed Y. Selim, Iowa State University; Ahmed M. Eltawil, King Abdullah University of Science and Technology (KAUST)

3 **A Constrained Weighted Least-Squares Algorithm for Hybrid 1-D Space-Angle and TDOA Localization**
Abdulellah Almalki, Huaping Liu, Oregon State University; Yanbin Zou, Shantou University

4 **Analysis of Out-of-Band Emissions in Sub-Band Full Duplex 5G-NTN operating at FR1**
Taha Ahmed Khan, Eva Lagunas, SnT, University of Luxembourg

5 **MUSIC-Based AoD and Advanced Filtering for UAV Localization in GNSS-Denied Environments**
Akash Rajasekaran, Mehari Meles, Reino Virrankoski, Riku Jäntti, Aalto University

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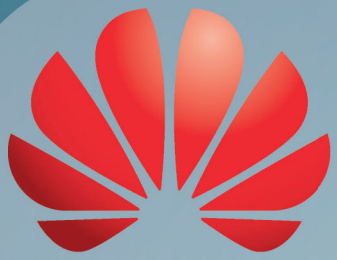
9Vb: Spectrum Management, Spectrum Sharing and Green Communication

1 **WideBand Spectrum Compressed Sensing via a BERT-Inspired Transformer Encoder**
haipeng ji, Tao Zhang, Zhiqiang Xiao, Hao Wu, Xiaoqiang Qiao, National University of Defense Technology

2 **Distributed Spectrum Resource Allocation for Cell-Free Radio Access Network**
Xiaopeng Guo, Southeast University; Yue Wu, Purple Mountain Laboratories; Pengzhe Xin, Jiamin Li, Pengcheng Zhu, Xiangyang Wang, Dongming Wang, Southeast University



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- Antennas
- Channel Modelling
- RF Techniques
- Antenna Systems, Propagation, and RF Design
- Advanced Coding & Transmission 1
- Advanced Coding & Transmission 2
- Channel Estimation 1
- Channel Estimation 2
- Channel Estimation 3
- Digital Twins
- Edge Technologies & Offloading
- Integrated Sensing and Communication 3
- Integrated Sensing and Communication 4

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- Localization
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- OpenRAN & AI-RAN & AI Agents
- V2X & Robotics
- Emerging Technologies, 6G and Beyond
- Ad-Hoc Networks
- Internet-of-Things
- M2M
- Sensor Networks
- IoT, M2M, Sensor Networks, and Ad-Hoc Networking
- Channel & Interference Estimation 1
- Channel & Interference Estimation 2

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- MIMO and Beamforming
- Resilience & Security
- Transceiver & Receiver Techniques
- Machine Learning for Communications
- Authentication
- Security and Privacy
- Security and Resilience
- Protocol, Security and Services for Wireless Networks
- Heterogeneous & Mesh Networks
- Multi-Hop Networks
- Radio Access Technology 1
- Radio Access Technology 2
- Radio Access Technology and Heterogeneous Networks
- Positioning & Localization 1

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VTC2026-Spring Sessions

- Positioning & Localization 2
- Satellite Systems
- Satellite Systems, Positioning Technologies, Localization and Navigation
- Beam Forming
- Channel Modeling & Estimation
- Encoder & Decoder Techniques 1
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- Encoder & Decoder Techniques 4
- Integrated Sensing and Communication 1
- Integrated Sensing and Communication 2
- MIMO 1
- MIMO 2

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- MIMO 3
- Mobile Edge Computing
- RIS 1
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- Signal Processing for Wireless Communications, Cooperative Communication
- Applications & Security
- Integrated Networks (SAGIN, ISTN)
- Non-Terrestrial Channels
- Non-Terrestrial Networks 1
- Non-Terrestrial Networks 2
- Satellite Networks 1
- Satellite Networks 2
- Scheduling 1

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- UAV Communications 1
- UAV Communications 2
- UAV Communications 3
- Underwater Communication
- Space, Non-Terrestrial, Airborne, and Maritime Mobile Systems and Services
- Energy Efficiency
- Scheduling 2
- Spectrum Management, Spectrum Sharing and Green Communication
- Autonomous Vehicles
- Driver Behaviour
- ITS
- Power Systems
- Vision Systems

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- Transport Electrification, Vehicular Electronics, Intelligent Transport Systems
- Testbeds and Proof-of-Concepts 1
- Testbeds and Proof-of-Concepts 2
- Vehicular and Wireless Testbeds and Proof-of-Concepts
- Autonomous Driving
- Collaborative Perception
- Remote Driving
- Security & Resilience
- Vehicular & Edge Communication 1
- Vehicular & Edge Communication 2
- Vehicular Technologies & Autonomous Driving
- Vehicular Telematics

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VTC2026-Spring Sessions

- Vehicular Communication, VehicularTelematics, Vehicular Cooperation, Autonomous Driving



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Papers by Session

Antennas

- A Novel 3D GBSM for STAR-RIS Assisted Integrated Sensing and Communication Systems
  Zayyad Haleed, Qun Wu, Jie Huang, and Cheng-Xiang Wang
- A D-Band CMOS Beamforming Receiver Module with Linearly Arranged Antenna
  Sunwoo Kong, Seunghun Wang, Hui-Dong Lee, Seunghyun Jang, Bonghyuk Park, and Dongphil Jang
- A Low-Profile Circularly Polarized Filtering Folded Transmitarray Antenna for Vehicular Communication Based on Metasurface
  Qing-Song Jia, Lin-Man Zhang, Xi Ran, and Ting-Ting Wang
- Integrated Antenna Performance Design by Utilizing Born Iteration Method
  Xi Ran, Ting-Ting Wang, Cun Wang, Qing-Song Jia, and Jia-Qi Xing
- Optimization of Metasurface-Based Reconfigurable Antenna in Cellular Network Uplink
  Yaser Dorrazehi, Anna V. Guglielmi, and Stefano Tomasin

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Papers by Session

Channel Modelling

- MIMO- and Bandwidth-Aware Path-Loss Modeling for 2.4, 5, and 6 GHz Indoor Wi-Fi
  Erma Perenda and Martin Kuipers
- Adaptive Channel Estimation for Movable Antenna Systems Based on Bayesian Compressive Sensing
  Tian Qiu, Haihong Sheng, Pengcheng Zhu, Kui Xu, and Lei Zhu
- Asymptotic Outage Performance of RIS-Aided FAS over Rayleigh Fading Channels
  Yi Zhang, Jintao Wang, Zheng Shi, Xu Wang, Di Wang, Guanghua Yang, and Shaodan Ma
- Characterization of Near-Field Effects in Reconfigurable Intelligent Surface Aided V2X Links using Infinitesimal Dipole Modelling
  Raju Malleboina, Atli Lemma Gebretsadik, and Debdeep Sarkar
- Measurement-Based Human Blockage Analysis and Modeling in Underground Parking Lots at 3.5 GHz
  Lei Yang, Ke Guan, Danping He, Hao An, Bei Zhang, Junyi Yu, and Zhangdui Zhong

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Papers by Session

RF Techniques

- Log-Mu Fading Process: Second-Order Statistics for Diversity-Combining Techniques
  Godfred Kumi Tenkorang and Michel Daoud Yacoub
- Sparse Selection of Natural Modes from the Cross-Spectral Density Tensor of an RF Multiport System for Indoor Device-Free Multi-Human Counting
  Frank E. Ebong and Andrea M. Tonello
- Training-Free Constraint-Guided Diffusion for One-Shot Path Loss Map Estimation
  Yuuki Tachioka
- Hybrid Beamforming Design for Near-Field Integrated Sensing and Communications
  Hao Dong, Chenhao Qi, and Kangjian Chen
- Designing 3GPP-Compliant Zadoff-Chu Waveforms for Joint Radar and Communication Systems
  Mann Maru and Naveen Mysore Balasubramanya

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Papers by Session

Antenna Systems, Propagation, and RF Design

- A Port-Efficient Array Manifold Design Enabling Maximal Full-Space Spatial Multiplexing
  Guohao Liu, Jun Luo, Lin Peng, Min Fang, and Zhi Sun
- Passive 60 GHz Azimuth Beam Steering via Binary ON/OFF Spatial Masking
  Swarnagowri Shashidhar, Amod Ashtekar, and Mohammed E. Eltayeb
- Refined Bayesian Optimization for Beam Alignment Based on Real-World 60 GHz Indoor Measurements
  Parth Ashokbhai Shiroya, Amod Ashtekar, Swarnagowri Shashidhar, and Mohammed E. Eltayeb
- RF Testbed Based on Channel Emulation for Evaluation of 5G Non-Public Networks in Railways
  Fátima Fernández, Aitor Arriola, Aitor Sanchoyerto, and Vanesa Serrano
- Channel Adaptive Digital Semantic Communications via Symbol Distortion Modeling
  Xunyang Zhan, Jie Cao, Tianhao Guo, Zhihao Dong, and Xu Zhu

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Papers by Session

Advanced Coding & Transmission 1

- Power Allocation for Short Blocklength Sparse Regression Codes over Non-Coherent Channels
  Sai Dinesh Kancharana, V. S. V. Sandeep, and Arun Pachai Kannu
- Efficient Hardware Implementations of Block Serial LDPC Decoders for 2x-LDPC Codes of Wi-Fi 8
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  Khaoula Sghaier, Arslane Hamza-Cherif, Pierre Merdrignac, Ghada Gharbi, Chahrazed Ksouri, Bechir Yengui, Badis Hammi, Pierre Parrend, and Didier Verna
- Reliability Analysis of 5G Communications for Automated Urban Transportation Systems
  Santiago Ríos-Guiral, Abdelhak Hidouri, Abdelkader Lahmadi, Ye-Qiong Song, Samia Bouzefrane, and Pedro B. Velloso
- Towards Formalizing Safety Monitoring in Vehicular Lane Changes using Temporal Logic
  Mariam Nour and Mohamed H. Zaki
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- Improving Misbehaviour Detection through Infrastructure Support without Raising Complexity
  Francesca Bassi, Jiahao Zhang, Ines Ben Jemaa, Frank Kargl, and Benjamin Erb
- Occlusion-Aware Multimodal Beam Prediction and Pose Estimation for mmWave V2I
  Abidemi Orimogunje, Hyunwoo Park, Kyeong-Ju Cha, Igbafe Orikumhi, Sunwoo Kim, and Dejan Vukobratovic
- Real-World Latency Analysis of Vehicular Visible Light Communication with Multiple LED Transmitters and an Event-Based Camera
  Ryota Soga, Tsukasa Shimizu, Shintaro Shiba, Quan Kong, Shan Lu, and Takaya Yamazato
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Vehicular & Edge Communication 2

- Distributed Digital Twin-Driven Deep Reinforcement Learning for Energy-Efficient Task Offloading in Vehicular Edge Networks
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- Numerology-Persistence Coupling Performance in 5G NR-V2X Sidelink Communication
  Alexey Rolich, Mert Yildiz, Asmad Bin Abdul Razzaque, Ion Turcanu, Alexey Vinel, and Andrea Baiocchi
- Demystifying VEINS: A Reality Check against Living Lab Experiments
  Antonio Solida, Giovanni Gambigliani Zoccoli, Gaetano Orazio Cauchi, Filip Valgimigli, Salvatore Iandolo, Martin Klapez, Maurizio Casoni, Mirco Marchetti, and Carlo Augusto Grazia
- Joint Broad-Range Null-Steering for Coordinated Multi-RSU MU-MIMO Transmission
  Keishi Hijikata, Sojin Ozawa, Yuta Tsunoda, Yuki Sasaki, Jin Nakazato, Haruki Osaki, Tetsuya Iye, and Kazuki Maruta
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- Mind the Noise: Sensitivity of Transformer-Based Interaction-Aware Trajectory Prediction Models to Noisy Data
  Shahab Salehi, Luca Lusvarghi, Miguel Sepulcre, and Javier Gozalvez
- Multi-Target Maneuver Coordinations: Unlocking Coordination Opportunities in Connected Automated Driving
  Rafael Molina-Masegosa, Sergei S. Avedisov, Miguel Sepulcre, Takayuki Shimizu, Javier Gozalvez, and Onur Altintas
- Benchmarking of Signal-Strength Prediction Tools on the Vienna Drive-Test Dataset
  Philip Schwarzinger, Wilfried Wiedner, and Philipp Svoboda
- Demand- and Priority-Aware Adaptive Congestion Control for Heterogeneous V2X Service Requirements
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- MILP-Based Thermal-Aware DNN Partitioning for In-Vehicle Embedded Systems
  Takumi Endo, Hiroki Nishikawa, Ittetsu Taniguchi, and Takao Onoye
- White-Box Neural Ensemble for Vehicular Plasticity: Quantifying the Efficiency Cost of Symbolic Auditability in Adaptive NMPC
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Vehicular Communication, VehicularTelematics, Vehicular Cooperation, Autonomous Driving

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- Lightweight Geometric Foreground Perception for Roadside LiDAR with Unified Semantics
  Yinkai Huang, Jiahui Mao, Chong Tan, Hong Liu, Chunlei Zheng, and Min Zheng
- Multi-Modal Sensor Fusion for Beam Prediction in RIS-Assisted Vehicular mmWave Systems
  Ahmad M. Nazar, Khalid Kanaan, Ahmed Nasser, Mohamed Y. Selim, and Ahmed M. Eltawil
- Reliability-Constrained Dual-Path Scheduling of CAN-Ethernet Traffic in TSN Architectures
  SwathigaVaishnave D., Jaishree Mayank, and Sivaselvan B.
- Secure Automotive Ethernet: Implementing and Benchmarking MACsec, IPsec, and TLS
  Lukas Eugster, Friedrich Wiemer, Mert D. Pesé, Mohammad Hamad, and Sebastian Steinhorst
- Adaptive Compressed Sensing-Aided Channel and Motion Estimation in OTFS-ISAC Vehicular Systems
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- Ergodic Capacity of Uncoordinated UAV-Backscatter Networks with Random Spectral Access
  Hanan Aljehani, Abdelhamid Salem, Khairi Hamdi, and Khaled Rabie
- Network-Level Bit-Flipping Attacks on Cooperative Adaptive Cruise Control in 5G Environment
  Chengwei Duan, Joon Kim, and Sandip Ray
- Piecewise Affine Control with Safety Guarantees for Railway Virtual Coupling
  Mehdi Zangeneh, Peter Hubbard, Tim Harrison, and James Fleming
- A Semantic-Communication-Aided Pillar-Voxel Feature Fusion Network for Vehicle-Infrastructure Cooperative 3D Object Detection
  Xuming Tian, Yuanhang Zheng, Xin Huang, Cai Yang, and Chao Wang
- Latency-Aware Intelligent Handover Approach for Flying Vehicles in Low-Altitude Economy Networks
  Sayantan Bose, Shikhar Verma, Mostafa M. Fouda, Zubair Md Fadlullah, and Diptendu Sinha Roy
- SparseCoM: Fully Sparse Collaborative Perception via Mixture of BEV Experts
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- W2 - 2nd International Workshop on Intelligent Aerial and Spaceborne Systems for 6G (6G SAGA): Communication, Sensing, and Autonomy for Mobility
- W3 - 2nd Workshop on AI-Driven Connectivity for Vehicular and Wireless Networks
- W4 - 2nd Workshop on Shaping the Future of Flight: Innovations in Advanced Air Mobility (AAM)
- W5 - 6-DCIoT: 6G-Driven Distributed Computing for IoT in Terrestrial- Non-Terrestrial and Vehicular Networks
- W6 - 6G-Empowered Robotic Vehicles for Sustainable Development (The Fourth VeSUS)
- W7 - 7th International Workshop on Decentralized Technologies and Applications for IoT (D'IoT) 2026
- W8 - 10th Workshop on Connected Intelligence for IoT and Industrial IoT Applications- C3IA

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- W9 - AI-Driven Semantic Communications
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- W11 - Emerging LEO Satellite Constellation Communication and Network Technologies for 6G Ubiquitous Connectivity
- W12 - Emerging Metaverse and 6G Massive/Immersive Communications (6G Metaverse)
- W13 - Fluid Antenna System (FAS) for 6G
- W14 - The 3rd Workshop on Synergizing Digital Twins and Pervasive Intelligence for Next-Generation IoT/IoV
- W15 - Intelligent Synergy of Sensing and Communications for Green IoT
- W16 - LPWAN-Based Terrestrial-Non-Terrestrial Integration for Vehicular Networks: AI-Driven Hardware Platforms, Testbeds, and 6G Directions
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- W20 - Workshop on Communication-Computing Co-Design for Energy-Efficient 6G Cloud-Edge Intelligence
- W21 - Workshop on Mission Critical and Emergency Communications
- W23 - Distributed LLMs at the Edge: Communication, Computation, and Mobility Constraints
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  Sayantan Bose, Shikhar Verma, Mostafa M. Fouda, Zubair Md Fadlullah, and Diptendu Sinha Roy
- Learning Compact Terrain-Context Representations for Feasibility-Aware Offline Reinforcement Learning in UAV Relaying Networks
  Joseanne Viana, Viswak R. Balaji, Boris Galkin, Lester Ho, and Holger Claussen
- RL-Based Resource Allocation in NOMA-Enabled NTN for Massive Machine-Type Communications
  Ti Ti Nguyen, Duc Dung Tran, Vu Nguyen Ha, Hung Nguyen-Kha, Giorgio Taricco, Eva Lagunas, and Symeon Chatzinotas
- Terrain-Aware Joint Optimization of HAPS Position and Cell Configuration for Tunable Throughput–Coverage Trade-Off
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  Suneet Kumar Singh, Tu Dac Ho, Stanislav Lange, Thomas Zinner, Zhenni Pan, and Shigeru Shimamoto
- Capacity Analysis of Weibull Fading Channels for Satellite-Ground Integrated Communications
  Aiwei Lei, Di Zhang, Aimin Li, and Evgeny Khorov
- FT8-Based Ionospheric Condition Estimation for Aerial and Spaceborne Communications
  Yukiko Tanabe, Kazutoshi Yoshii, and Shigeru Shimamoto
- Game Theoretic Trajectory Planning with Sensing Based Intention Estimation for AMR
  Keigo Okano and Toru Namerikawa
- MMDRL—Based Adaptive Parameter Optimization in UAV Swarm Network
  Mingyuan Wang, Ming Lei, and Rongpeng Li
- AI-Driven Semantic Communication for Robust Perception Sharing in 6G Space-Air-Ground Integrated Mobility Systems
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W3 - 2nd Workshop on AI-Driven Connectivity for Vehicular and Wireless Networks

- Characterizing the Computational Feasibility of AI Video Analytics across Edge, Fog, and MEC in Urban Intelligent Transportation Systems
  Elena Mariolina Galdi, Marco Savarese, Gaetano Orazio Cauchi, Paolo Burgio, Davide Bertozzi, Andrea Marongiu, and Carlo Augusto Grazia
- Deep Reinforcement Learning-Based MLO Traffic Allocation for OFDMA Transmission in IEEE 802.11be Networks
  Lucas Foissey, Lila Boukhatem, and Megumi Kaneko
- Estimating Timing Advance for Sub-THz Distributed Systems from Sub-10 GHz Channel State Information
  Nishant Gupta, Muris Sarajlic, and Erik G. Larsson
- TinyML-Enabled Priority-Aware V2X Communication for Fog-Edge Emergency Vehicles
  S. Hemanth Durga Kumar, Ch Madhu Bhushan, Surayya A., Firoj Gazi, and Md Muzakkir Hussain
- UE Count Forecasting via Transformer-Based Mobility Decomposition and Cross-Cell Propagation Modeling
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  Satoshi Nishino, Masami Yoshida, and Taku Noguchi
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  Jialu Xing, Jin Nakazato, Maki Arai, Kensuke Inaba, Toshimori Honjo, Hiroki Takesue, Kazuyuki Aihara, and Mikio Hasegawa
- Diffusion-Based Covert Semantic Communication over Time-Varying Channels
  Riku Kurahashi, Goki Sawada, Shun Kojima, and Kazuki Maruta
- Dynamic Channel Prediction Method Based on Multi-Scale Transformer
  Rong Zhao, Liyan Li, and Rongpeng Li
- Experimental Evaluation of High-Frame-Rate OCC using Clock Offsets in Image Sensor Arrays
  Yuto Okada, Yuta Furukawa, Daisuke Hisano, Yu Nakayama, and Kazuki Maruta
- Fast Weight Derivation for Phase-Controlled Massive MIMO Null-Space Expansion with Analog Beamforming
  Masaya Ueda, Yuta Tsunoda, Chun-hsiang Huang, Koji Ikuta, and Kazuki Maruta
- Null-Space Expansion for OTFS-Based Downlink MU-MIMO Transmission
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- UAV Flight Trajectory Planning for Wireless Power Transfer using Cooperative Beamforming
  Yutaro Kimura, Hayato Taniguchi, Tomotaka Kimura, and Jun Cheng
- UAV Trajectory Planning Based on Centroids of Ground Device Positions for SAGIN
  Hiroyuki Nishikawa, Tomotaka Kimura, and Jun Cheng
- AI-Driven Multi-Layer Federated Split Learning for Hardware-Impaired Multi-Cell 6G Edge Networks with Dynamic zCDP
  Wenjie Wang, Jianxin Dai, Zhaohui Yang, Zhaoyang Zhang, Qianqian Yang, Xiangzheng Si, Yang Sun, and Kun Yang
- SNR-Adaptive Optimal Threshold Design for Energy Detection in Dynamic Spectrum Access
  Sushila Dhaka, Jane-Hwa Huang, Chih-Min Yu, and Li-Chun Wang

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Papers by Workshop

W4 - 2nd Workshop on Shaping the Future of Flight: Innovations in Advanced Air Mobility (AAM)

- Predictive GNSS Signal-Quality-Driven Receiver Adaptation for Robust UAV Navigation
  Akash Kumar Mandal, Krittika Choudhuri, Ashik Paul, Ajay K. Poddar, Ulrich L. Rohde, and Swades De
- Air Cells: Digital Building Blocks of Airspace for Advanced Air Mobility
  Mathias Feriew Kidane, Zachary McCorkendale, Logan McCorkendale, Kamesh Namuduri, and Ravi Subranmanian
- Ground Control Station for Managing Airspace Operations in Advanced Air Mobility
  Mathias Feriew Kidane, Zachary McCorkendale, Logan McCorkendale, Kamesh Namuduri, Pavan Sai Kumar Reddy Thummala, Syam Narayanan S., and Rajalakshmi P.
- A DRL-Based Communication Scheme for 6G UAV Systems
  Vu Khanh Quy, Abdellah Chehri, and Vi Hoai Nam
- FAS Mounted UAVs for 6G Networks Localization
  Nagla Abuzgaia, Naila Elmangosh, Abdelhamid Salem, Ahmed Elbarsha, and Khaled M. Rabie

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W5 - 6-DCIoT: 6G-Driven Distributed Computing for IoT in Terrestrial- Non-Terrestrial and Vehicular Networks

- Reliable Message Delivery in Direct-to-Satellite IoT: Some Preliminary Results
  Sonu Rathi and Siddhartha S. Borkotoky
- Rethinking NB-IoT Downlink Synchronization for LEO-NTN: A Novel Overhead Reduction Method and Measurement-Based Evaluation
  Ömer Lütfü Karakelle, Erhan Karakoca, Bengü Bilgiç Keskin, İbrahim Hökelek, Ali Görçin, and Halim Yanikomeroglu
- Optimized Relay-Based Quantum Key Distribution for Terrestrial/Non-Terrestrial Backhaul Networks
  Saurav Kumar Singh, Sumana Maiti, Ayan Mondal, and Atri Mukhopadhyay
- Hierarchical Deep Reinforcement Learning for Communication and Computation Resource Management in Heterogeneous Space-Air-Ground Integrated Networks
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- Trustless-by-Design Security Framework for Distributed IoT of 6G Non-Terrestrial Networks

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W6 - 6G-Empowered Robotic Vehicles for Sustainable Development (The Fourth VeSUS)

- EA-IGRL: Energy-Efficient Computation Offloading for 6G-Empowered Robotic Vehicles
  Yuxuan Xiao, Han Xiao, Chuxing Fang, and Changqiao Xu
- Reliability-Aware Multimodal Perception for 6G-Empowered Robotic Vehicles
  Xiangning Duan, Weijia Feng, Ruojia Zhang, Rui Lan, Chenyang Wang, Xiaoqiang Zhu, and Wenjuan Wu
- DS-Net: A Lightweight Defect Sensing Network for 6G MEC-Enabled Inspection Robots
  Guangmiao Kang, Yi Zhong, Tianren Ming, and Yi Han
- Knowledge Distillation Driven Semantic NOMA with GAN Refinement for 6G Robotic Vehicle Networks
  Qifei Wang, Zhen Gao, Li Qiao, Ziwei Wan, De Mi, Dapeng Li, and Ying Sun

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Papers by Workshop

W7 - 7th International Workshop on Decentralized Technologies and Applications for IoT (D'IoT) 2026

- Blockchain-Assisted Decentralized Federated Learning for Trustworthy Edge-IoT Systems
  Muhammad Irfan Younas Mughal, Ali Hassan Sodhro, Fatiha Djebbar, and Sandeep Pirbhulal
- Feasibility and Efficiency Analysis of Distributed Byzantine-Tolerant Consensus on Securing Internet of Things
  Yuwei Le, Rui Jiang, Yiheng Jiang, Jixing Wei, Haifeng Shan, Jiaheng Wang, and Yongming Huang
- HAPPO: Heuristic Assisted Proximal Policy Optimization for Dynamic Microservice Placement in Vehicular Edge Computing
  Surayya. A. and Md. Muzakkir Hussain
- Multi-Tier Edge Intelligence using Distributed Learning for Resilient 6G Non-Terrestrial Networks
  Bhagwan Das, Nawaz Ali, Gianluca Aloi, Pasquale Pace, Magnus Johnsson, and Ali Hassan Sodhro
- Securing AI-as-a-Service Platform through Blockchain and Smart-Contracts
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- Securing IoT with AI-Based Cyberattack Detection Models using Real-World Testbeds and Datasets
  Riku Lehkonen, Knut Selstad, Sandeep Pirbhulal, Habtamu Abie, and Ismail Ari
- TrustChain-FL: Lightweight Blockchain-Assisted Trust Aggregation for IoT-Enabled Decentralized Federated Learning
  Muhammad Babar, Sarah Kaleem, Basit Qureshi, and Wadii Boulila
- Zero-Knowledge Inspired Provenance for Trustless Federated Learning in Decentralized IoT Systems
  Mir Hassan, Sergio Arnoldo Jofre, Giedre Sabaliauskaite, Nawaz Ali, Ali Hassan Sodhro, and Nihan Kahraman
- LLM-Assisted Stateful Fuzzification of Electric Vehicle Charging Protocol
  Nima Valizadeh, Devki Nandan Jha, Tomasz Szydlo, Omer Rana, and Rajiv Ranjan
- Profiling-Driven Hybrid Scheduling for Energy-Efficient IoT Edge Acceleration on CPU-GPU-FPGA Platforms
  Rupinder Kaur, Arghavan Asad, Farah Mohammadi, and Yazan Otoum
- Unified Threat to Control Framework with NLP-Assisted Harmonization in IT, OT, and IoT Sectors
  Fatiha Djebbar, Ismaila Olatunde Sogbade, and Ali Hassaan Sodhro
- Adversarial Insight: A Visual Knowledge Graph of Maritime Cyber Threats
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- Explainable Fake News Detection using BERT with Advanced Stylometry and Robust Fusion
  Saqib Hussain, Biju Issac, and Muhammad Muzammal
- Green Energy-Aware Blockchain Integrated Edge Cloud for Public Transportation Applications
  Abdullah Lakhan, Tor-Morten Grønli, Magnus Johnsson, and Ali Hassan Sodhro

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W8 - 10th Workshop on Connected Intelligence for IoT and Industrial IoT Applications- C3IA

- Deep Reinforcement Learning for Beamforming and Resource Allocation in RIS-Assisted NOMA-ISAC 6G Systems
  Mahdi Nouri, Sima Sobhi-Givi, Zahra Mousavi, Hamid Behroozi, Zhiguo Ding, and Md. Jalil Piran
- Semi-Blind Detection in M-Ary Signaling Based Uplink Cell-Free mMIMO Industrial IoT Networks
  N. V. Divya Lakshmi and Adarsh Patel
- Federated Edge Learning Framework for UAV-Assisted IoV Services
  Vu Khanh Quy, Abdellah Chehri, Dao Manh Linh, Dang Nhat Minh, Nguyen Gia Ba, and Pham Anh Thu

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W9 - AI-Driven Semantic Communications

- Deep Reinforcement Learning for Intelligent UAV-Assisted Secured Semantic Communications
  Gaurav K. Pandey, Matúš Dopiriak, Devendra S. Gurjar, Suneel Yadav, and Juraj Gazda
- Large Language Model-Based Semantic Communication System for Image Transmission
  Soheyb Ribouh and Osama Saleem
- Secure-SFBL: Authenticating Generative Semantic Streams for Autonomous Agents
  Quazi Mamun and Manoranjan Paul
- Toward a Unified Semantic Loss Model for Deep JSCC-Based Transmission of EO Imagery
  Ti Ti Nguyen, Thanh-Dung Le, Vu Nguyen Ha, Duc-Dung Tran, Hung Nguyen-Kha, Dinh-Hieu Tran, Carlos L. Marcos-Rojas, Juan C. Merlano-Duncan, and Symeon Chatzinotas
- Computation Offloading Framework Based on Reconstruction-Free Semantic Communication
  Adam Janes, Zdenek Becvar, and Jan Danek
- Spatial-Frequential Adaptive Learned Image Transmission for Precoded MIMO Systems
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W10 - Edge Intelligence meets AI-Native RAN: Theory, Algorithm and Implementation

- Adaptive Swin Transformer Partitioning over AI-RAN Networks
  Tam Thanh Nguyen, Yong Hao Pua, Tuan Van Ngo, Mao V. Ngo, Jihong Park, Binbin Chen, and Tony Q. S. Quek
- Knowledge-Assisted Queue-Aware Spatio-Temporal 2-D Short-Packet Coding for URLLC
  Yi Jia, Yuxuan Li, Hongxin Lin, and Yongming Huang
- AoI-Aware Data Valuation for Closed-Loop Control in O-RAN
  Yajuan Qiao, Zexu Li, Xiaoyu Chi, and Yue Wang
- Model-Driven Hierarchical Graph Neural Networks for Partially-Connected Precoder Design
  Chenyang Yi, Wei Xu, Zhaocheng Wang, Derrick Wing Kwan Ng, Huahua Xiao, and Zhaohua Lu
- Joint Constellation Shaping and Deep Learning-Based Symbol Decision in OFDM Systems
  Jiayi Liu, Luhan Wang, Haozhe Jin, Anpei Li, Gangyu Bai, and Zhaoming Lu
- Transformer-Based Intelligent Receiver for Media-Based Modulation
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W11 - Emerging LEO Satellite Constellation Communication and Network Technologies for 6G Ubiquitous Connectivity

- Distributed Massive MIMO Ground Station with Small Multi-Beam Antennas for LEO Constellations
  Koyo Tategami, Daisuke Goto, Kiyohiko Itokawa, Tomohiro Tokuyasu, and Fumihiro Yamashita
- Handover Mechanisms for Integrated Terrestrial and LEO Satellite Networks: A 6G Survey and Research Roadmap
  Ainur Daurembekova and Hans D. Schotten
- Massive MIMO LEO Satellite Communications with FIMCC-Aided Pilot Reuse
  Yuanshuo Wang, Li You, Huibin Zhou, Wei Wang, Ke-Xin Li, Xiang-Gen Xia, and Xiqi Gao
- Reduced-Basis Constrained Tree Search for Large-Scale MIMO Detection
  Lanxin He, Zheng Wang, Jinming Wen, and Yongming Huang
- The WMMSE Algorithm Based on BFGS Quasi-Newton Method in Massive MIMO Systems
  Yuhuan Zhao, Bin Yan, Zheng Wang, Yongming Huang, and Qingjiang Shi

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- Fair Energy Efficient Semantic Communication for Satellite-Air-Ground Integrated Network

  Yichen Wu, Jianxin Dai, Zhaohui Yang, Chen Zhu, and Zhaoyang Zhang

- PT-KMS: A Polynomial Pool and Trust Chain-Based Distributed Key Management Scheme for LEO Satellite Networks

  Longyu Li, Shuang Tian, Tao Zhang, Xiangyun Tang, Jiacheng Wang, Zhenhui Yuan, Xuangou Wu, Jiawen Kang, Geng Sun, and Jiqiang Liu



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W12 - Emerging Metaverse and 6G Massive/Immersive Communications (6G Metaverse)

- Adaptive Fuzzy Logic-Driven Handover Framework for Ultra-Dense 6G Networks
  Akzhibek Amirova, Laura Aldasheva, Gulsaya Nurzhaubayeva, and Moldir Azim
- Bandwidth Limited Diffusion-Driven Semantic Communication
  Zhengjia Xu, Zhuangkun Wei, Hongjian Sun, and Julie A. McCann
- Data-Driven Path Loss Prediction for 28 GHz mmWave Communications in Dense 5G and beyond Networks for Immersive Metaverse Services
  Fatih Muhaciroglu, Ibraheem Shayea, Gulsaya Nurzhaubayeva, Akzhibek Amirova, Laura Aldasheva, and Didar Yedilkhan
- Multidimensional Resource Allocation for Proactive Immersive Communication with Feasible Learning
  Xing Wei and Yue Wang
- Multi-Sensory Attack Vectors in Immersive 6G Metaverse Environments: A STRIDE-Based Threat Categorization Attempt
  Wiktor Sędkowski
- Stability-Aware ATSSS for XR: Hysteresis-Guided and DRL-Based Multi-RAT Control in 5G/Wi-Fi Networks
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  Yingquan Zou, Yixiao Zhang, Jingfu Li, Chong Huang, Donggen Li, and Pei Xiao
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Papers by Workshop

W13 - Fluid Antenna System (FAS) for 6G

- Fluid Antenna System Combining Metasurfaces and Beamforming Antennas for Two by Two LOS-MIMO Mobile Communication Systems

  Dan Mohri, Keisuke Sato, Takayoshi Sasaki, Yoshiki Shirasawa, Satoshi Suyama, Daisuke Murayama, Shoko Shinohara, Takeru Fukushima, Yuyuan Chang, and Huiling Jiang

- Energy Efficient Wireless Agent Networks (WAN) with Fluid Antenna System

  Yiting Wang, Jianxin Dai, Zhaohui Yang, Chen Zhu, Zhouxiang Zhao, Siyun Liang, and Yang Sun

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