

| | Kaimuki 1 (A) | Kaimuki 2 (B) | Kaimuki 3 (C) | Milo 1 (D) | Milo 2 (E) | Milo 3 (F) | Kou (G) | Honolulu (H) | Salon 1 (P) | Salon 2 (Industry Track) |
|-----------------|--|-------------------------------|---|---|--|----------------------------------|---------------------------------|---------------------------|----------------------|---|
| | SUNDAY 22 September | | | | | | | | | |
| 7:00–17:30 | Registration (Lania) | | | | | | | | | |
| 9:00–17:30 | TUTORIALS and WORKSHOPS (see separate program) | | | | | | | | | |
| 18:00–20:00 | Welcome Reception (Mohala Gardens, first floor) | | | | | | | | | |
| | MONDAY 23 September | | | | | | | | | |
| 7:00–17:30 | Registration (Lania) | | | | | | | | | |
| 8:30–9:00 | Welcome and opening (Gordon Stuber, VTC2019-Fall Chair, VTC2019 Co-Chair, CAVS2019 Co-Chair) (Kona Moku Ballroom) | | | | | | | | | |
| 9:30–9:45 | Keynote: Cognitive Dynamic System for Cyber Physical Systems and Cybersecurity (Simon Haykin, Distinguished University Professor, McMaster University, Canada) | | | | | | | | | |
| 9:45–10:30 | Keynote: Vehicular Communications – C-V2X is Driving it Forward (Edward G. Tiedemann, Jr., Senior VP Engineering and Qualcomm Fellow, Qualcomm Technologies, USA) | | | | | | | | | |
| 10:30–11:00 | Refreshments (Lania) | | | | | | | | | |
| 11:00–12:30 (1) | NOMA Systems | mmWave and 5G | AI and Machine Learning Approach | IoT Applications | Channel Measurements and Modeling I | Resource Management I | V2X Performance Analysis I | Positioning I | Radio Access | Topics in 5G Technology and Standards |
| 12:30–14:00 | Lunch (Kona Moku Ballroom) | | | | | | | | | |
| 14:00–15:30 (2) | Coding | MIMO I | NOMA | Fog and Edge Computing | Channel Measurements and Modeling II | Security I | V2X Performance Analysis II | Positioning and Satellite | Physical Layer I | Challenges and Technologies for Building the 5G Network Edge |
| 15:30–16:00 | Refreshments (Lania) | | | | | | | | | |
| 16:00–17:30 (3) | Massive MIMO I | Multiple Antennas | High-Density Networks and Large-Scale Antenna Systems | Multiple Access | mmWave I | Resource Management II | UAV Channel Models | Positioning II | Physical Layer II | Conquering New Application Frontiers with 5G |
| 18:00–20:00 | UAV to UAV Communications: Options, Challenges, and Standards (Kona Moku Ballroom Salon B) | | | | | | | | | |
| | TUESDAY 24 September | | | | | | | | | |
| 8:00–17:30 | Registration (Lania) | | | | | | | | | |
| 9:00–9:45 | Keynote: Delivering 5G Performance: mmWave Spectrum Opportunities and Challenges (Reinaldo A. Valenzuela, Director, Nokia Bell Labs) (Kona Moku Ballroom) | | | | | | | | | |
| 9:45–10:30 | Keynote: Keynote: Cooperative Automated Driving: Overview, Design, and Technical Challenges (Gaurav Bansal, Principle Engineer, Airbus A ³ Labs) | | | | | | | | | |
| 10:30–11:00 | Refreshments (Lania) | | | | | | | | | |
| 11:00–12:30 (4) | Fading and Diversity | Massive MIMO II | Ultra-Reliable Communications in Heterogeneous Networks | IoT Networks | Antenna Systems | Wireless Networks | Multi-UAV Networks | Positioning III | Network Layer | An intelligent 5G network for a Variety of Services |
| 12:30–14:00 | VTC2019-Fall and VTS Awards Luncheon (Kona Moku Ballroom) | | | | | | | | | |
| 14:00–15:30 (5) | Signal Processing I | Massive MIMO III | Fog-RAN and Virtualization | Resource Allocation for M2M & Sensor Networks | Channel Estimation and Evaluation | Security II | Machine Learning and Simulation | Physical Layer III | MIMO II | Artificial Intelligence Paradigms for Designing Wireless Systems |
| 15:30–16:00 | Refreshments (Lania) | | | | | | | | | |
| 16:00–17:30 (6) | Signal Processing II | Cooperative Communications I | State-of-the-Art WiFi Technologies | Wireless Sensor Networks | Localization | Deployment and Relay | Vehicular Applications | Physical Layer IV | Vehicular Networks I | Challenges and Opportunities in Industrial Networks |
| 18:00–21:30 | VTC2019-Fall Banquet (Waikiki Aquarium) | | | | | | | | | |
| | WEDNESDAY 25 September | | | | | | | | | |
| 8:00–17:30 | Registration (Lania) | | | | | | | | | |
| 9:00–9:45 | Keynote: Distributed Machine Learning in Automotive (Jim Brown, Chief Technology Officer, CloudMade, USA) (Kona Moku Ballroom) | | | | | | | | | |
| 9:45–10:30 | Keynote: Communications Perspective in Vehicular Cooperation (Onur Altintas, InfoLabs Fellow, Toyota Info Tech Labs, USA) | | | | | | | | | |
| 10:30–11:00 | Refreshments (Lania) | | | | | | | | | |
| 11:00–12:30 (7) | Multicarrier Transmission | Cooperative Communications II | Resource Management for mmWave & 5G Systems | Communication and Machine Learning in ITS | Cognitive Radio and Novel Channel Access | Energy Harvesting Communications | Channel Estimation | Channel Modelling | IoT | Challenges and Opportunities in Industrial Networks |
| 12:30–14:00 | Lunch (Kona Moku Ballroom) | | | | | | | | | |
| 14:00–15:30 (8) | MIMO and Beamforming Techniques | Radio Resource Management | MIMO III | Navigation, Tracking and Simulation | Spectrum Management and Sensing Techniques | Energy-Efficient Communications | Emerging Technology I | mmWave II | | Opportunities and Challenges in Drones, HAPS and Non-terrestrial Networks |
| 15:30–16:00 | Refreshments (Lania) | | | | | | | | | |
| 16:00–17:30 (9) | Industry 4.0 and Low-Latency | Edge Cloud and Computing | Vehicular to Everything Communications | Vehicle Electronics, Batteries and Service Efficiency | Mobility | Emerging Technology II | Vehicular Networks II | Aerial Networks | | AI for Autonomous Vehicles |