<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Welcome</td>
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| 09:10 | Processed 5G Signals Mathematical Models for Positioning considering a Non-Constant Propagation Channel  
      Anne-Marie Tobie, TéSA - French National Civil Aviation; Axel Garcia-Pena, Paul Thevenon, French National Civil Aviation |
| 09:30 | Physical-Layer Abstraction for Hybrid GNSS and 5G Positioning Evaluations  
      José A. del Peral-Rosado, Universitat Autònoma de Barcelona (UAB); Olivier Renaudin, Universitat Autònoma de Barcelona;  
      Christian Gentner, German Aerospace Center (DLR); Ronald Raulefs, German Aerospace Center; Enrique Domínguez-Tijero,  
      Alejandro Fernández-Cabezas, Fernando Blázquez-Luengo, Gema Cueto-Felgueroso, GMV; Alexander Chassaigne, Telefónica I+D;  
      David Bartlett, u-blox AG; Florin Grec, Lionel Ries, Roberto Prieto-Cerdeira, European Space Agency (ESA); José A. López-Salcedo, Gonzalo Seco-Granados, Universitat Autònoma de Barcelona (UAB) |
| 09:50 | Evaluation of Feedback and Feedforward Coupling of Synthetic Aperture Navigation with LTE Signals  
      Zaher Kassas, Ali Abdallah, University of California, Irvine |
| 10:10 | Data Association among Physical and Virtual Radio Transmitters with Visibility Regions  
      Markus Ulmschneider, Christian Gentner, Armin Dammann, German Aerospace Center (DLR) |
| 10:30 | Refreshments break                                                       |
| 11:00 | Keynote: The Quest for Precise Indoor Location  
      Stan Chesnutt, Google |
| 11:45 | Multipath-Optimal UAV Trajectory Planning for Urban UAV Navigation with Cellular Signals  
      Sonya Ragothaman, University of California Riverside; Mahdi Maaref, Zaher Kassas, University of California, Irvine |
| 12:05 | UAV Trajectory Design for Obstacle Avoidance Based on Cell-varying JPS in Smart Cities  
      Yixue Feng, Jianjun Hao, Beijing university of posts and telecommunications; Yijun Guo, Beijing University of Posts and Telecommunications; Yi Zhang, Beijing university of posts and telecommunications |
| 12:25 | Lunch break (on your own)                                               |
| 13:45 | Keynote: Realizing Ubiquitous Indoor Positioning for First Responders  
      Jeb Benson, NIST |
| 14:30 | Enabling High-Integrity Vehicular Satellite Navigation Operations via Automatic Gain Control  
      Nathan Levigne, Dennis Akos, Charles Puskar, University of Colorado Boulder |
| 14:50 | On the Trade-off Between Computational Complexity and Collaborative GNSS Hybridization  
      Alex Minetto, Politecnico di Torino; Gianluca Falco, LINKS Foundation; Fabio Dovis, Politecnico di Torino |
| 15:10 | A Vehicular GPS Error Prediction Model Based on Data Smoothing Preprocessed LSTM  
      Sheng Liu, University of Michigan, Dearborn; Vivekanandh Elangovan, Weidong Xiang, University of Michigan-Dearborn |
| 15:30 | Refreshments break                                                       |
| 16:00 | On the Cooperative Ranging between Android Smartphones Sharing Raw GNSS Measurements  
      Neil Gogoi, Alex Minetto, Fabio Dovis, Politecnico di Torino |
| 16:20 | Precise Point Positioning with Kepler  
      Patrick Henkel, German Aerospace Center (DLR) |
| 16:40 | Panel discussion with the Workshop Organizers and Keynote Speakers       |