### SUNDAY, 21 APRIL

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00</td>
<td><strong>Grand Ballroom C&amp;D Level 2</strong> 8:00–17:00 Registration</td>
<td>Grand Ballroom C&amp;D Level 2</td>
</tr>
<tr>
<td>13:30–13:45</td>
<td><strong>Networking Break, Level 2</strong></td>
<td>Level 2</td>
</tr>
<tr>
<td>13:45–15:45</td>
<td><strong>Welcome Reception</strong></td>
<td>Level 2</td>
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</tbody>
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### MONDAY, 22 APRIL

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Location</th>
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<tbody>
<tr>
<td>09:00</td>
<td><strong>Grand Ballroom C&amp;D Level 2</strong> 9:00–17:00 Registration</td>
<td>Grand Ballroom C&amp;D Level 2</td>
</tr>
<tr>
<td>13:30–13:45</td>
<td><strong>Networking Break, Level 2</strong></td>
<td>Level 2</td>
</tr>
<tr>
<td>13:45–15:45</td>
<td><strong>10:00–17:15 Exhibition</strong></td>
<td>Level 2</td>
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</tbody>
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### Keynotes
- **Keynote 1** Theodore (Ted) S. Rappaport, New York University, USA
- **Keynote 2** Tommaso Melodia, Northeastern University, USA

### Poster Session
- **Poster Session Track 1** Challenges in Vehicular Communication
- **Poster Session Track 2** Positioning, Tracking and Sensing
- **Poster Session Track 3** Blockchain and Cryptography
- **Poster Session Track 4** Reconfigurable Holographic Surfaces

### Technical Sessions
- **Tech Session Track 1-1** Federated Learning I
- **Tech Session Track 1-2** Federated Learning II
- **Tech Session Track 1-3** Intelligent Reflecting Surfaces I
- **Tech Session Track 2-1** Mobile and Wireless Networks
- **Tech Session Track 2-2** AI in Mobile and Wireless Networks
- **Tech Session Track 2-3** Resource Management
- **Tech Session Track 2-4** Semantic and Goal-Oriented Communications
- **Tech Session Track 3-1** Integrated Sensing and Communication I
- **Tech Session Track 3-2** Wireless Power Transfer and Energy Harvesting
- **Tech Session Track 3-3** Connected Vehicles I
- **Tech Session Track 4-1** Intelligent Transportation and Connectivity I

### Panels
- **Panel Session Track 1** AI in Mobile and Wireless Networks
- **Panel Session Track 2** Blockchain and Cryptography
- **Panel Session Track 3** Reconfigurable Holographic Surfaces

### Workshops
- **Workshop Session Track 1** Machine Learning in Wireless Networks
- **Workshop Session Track 2** Reconfigurable Holographic Surfaces
- **Workshop Session Track 3** Security

### Special Events
- **8:00–17:00 Registration**
- **10:00–17:15 Exhibition**
### TUESDAY, 23 APRIL

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00–15:00</td>
<td>Registration</td>
</tr>
<tr>
<td>15:00–16:00</td>
<td>Lunch in Grand Ballroom C&amp;D, Level 2</td>
</tr>
<tr>
<td>16:00–17:00</td>
<td>Keynote 3: Dr. Wen Tong, Huawei</td>
</tr>
<tr>
<td>17:00–18:00</td>
<td>Keynote 4: Tara Javid, University of California San Diego, USA</td>
</tr>
<tr>
<td>18:30–22:00</td>
<td>Banquet 19.30–22:00</td>
</tr>
</tbody>
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#### Tech Session Tracks

**Tech Session Track 1-19**
- Antennas and Antenna Arrays
- Communication Systems V
- UAV Communications and Control
- Advanced Beamforming and Antenna Technologies
- Integrated Sensing and Communications I
- Communication Systems IV
- System III
- Delay Aware and Reliable Communications and Networks
- Energy Efficient and Green Networking
- WICE/WIE Program
- PN-02: Energy Efficiency in Wireless Communications Networks, 5G to 6G Challenges and Opportunities
- Wireless Channel Modeling
- Machine Learning for Communications
- Cell-Free Massive MIMO

**Tech Session Track 1-27**
- Wireless Security II
- Integrated Sensing and Communication IV

**Tech Session Track 1-24**
- Beamforming and Beamforming

**Tech Session Track 1-23**
- Estimation and Detection

#### Special Sessions

- WCNC Steering Committee Meeting (Closed)
- AV Trajectory Tracking and Design
- Advanced Beamforming and Antenna Technologies 2
- Optical and Visible Light Systems
- Networks II
- Satellite Communications and Networks
- Aerial and Satellite Communications and Networks
- IoT

#### Breaks

- Networking Break in Exhibit Hall, Level 2
- Networking Break in Exhibit Hall, Level 2

### WEDNESDAY, 24 APRIL

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</thead>
<tbody>
<tr>
<td>09:00–15:00</td>
<td>Registration</td>
</tr>
<tr>
<td>15:00–16:00</td>
<td>Lunch in Grand Ballroom C&amp;D, Level 2</td>
</tr>
<tr>
<td>16:00–17:00</td>
<td>Keynote 5: Moeness Amin, Villanova University, USA</td>
</tr>
<tr>
<td>17:00–18:00</td>
<td>Keynote 6: Mehdi Bennis, University of Oulu, Finland</td>
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#### Tech Session Tracks

**Tech Session Track 4-37**
- Advanced Wireless Communication Systems
- Network Optimization and Resource Allocation
- Optimization and Security Protocols in IoT Networks
- Learning in Communication Networks and Optimization
- Channel Estimation and Modeling
- MIMO II
- MIMO I
- Networks III
- Scheduling and Performance Analyses of Networks
- Vehicular Networks
- Cognitive Radio Networks
- Estimation and Localization
- Vehicular and UAW Communications
- Beamforming and Beamforming

**Tech Session Track 4-38**
- 5G NR and Beyond
- 6G for Connected and Immersive Intelligence
- Optical Wireless Communications
- Recent Advances in Communication Theory
- Quantum Communications and Advanced Wireless Technologies
- Edge Computing and Microservice Management
- Satellite and Space Communications
- 802.11 and Next-Generation Wi-Fi Technologies
- Federated Learning in Wireless Networks
- Towards Autonomous 6G Networks: Requirements, Standards, and Challenges
- 600 Hz and 60-GHz, and 6G Technologies
- UAV I
- UAW II
- 802.11 and Next-Generation Wi-Fi Technologies II
- Standardization and Industrialization for RIS: The Story for the Second Half
- Modulation/Demodulation, MIMO/Massive MIMO, mmWave and VLCC
- Intelligent Reflecting Surfaces III
- Intelligent Reflecting Surfaces II

#### Special Sessions

- Seminar on 5G NR and Beyond
- Seminar on 6G for Connected and Immersive Intelligence
- Seminar on Optical Wireless Communications
- Seminar on Wireless Security II
- Seminar on Integrated Sensing and Communication IV

#### Breaks

- Networking Break in Exhibit Hall, Level 2
- Networking Break in Exhibit Hall, Level 2

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**Note:** The above schedule assumes a typical conference format with keynotes, technical sessions, breaks, and special sessions. Actual conference formats may vary.
ABOUT IEEE COMMUNICATIONS SOCIETY
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To learn more, visit our website https://wcnc2024.ieee-wcnc.org

Keynotes
All keynotes will take place in Grand Ballroom C&D, Level 2.

Monday 22 April • 11:00–12:30
Theodore (Ted) S. Rappaport
New York University, USA

Tuesday 23 April • 11:00–12:30
Dr. Wen Tong
Huawei Wireless, CAN

Wednesday 24 April • 11:00–12:30
Moeness Amin
Villanova University, USA

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General Vice Chair
Manwa Chafii, NYU Abu Dhabi, UAE

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Eesa Bastaki, University of Dubai, UAE

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Leyre Azpilicueta, Public University of Navarre (UPNA), ESP
Swades De, Indian Institute of Technology Delhi, IND
Osvaldo Simeone, King’s College London, GBR

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Jalel Ben Othman, CentraleSupélec & USC, FRA
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Ali Waqar Azim, University of Engineering and Technology, Taxila, PAK
Shuping Dang, University of Bristol, GBR
Nour El Madhoun, Institut Supérieur d’Electronique de Paris, FRA

Wafa Njima, Institut Supérieur d’Electronique de Paris, FRA

Track Co-Chairs (continued)
Giovanni Geraci, Universitat Pompeu Fabra, Barcelona, ESP
Maurice Khambaz, American University of Beirut, LBN
Fan Liu, Southern University of Science and Technology, CHN
Valeria Loscri, Inria Lille, FRA
Pierluigi Salvo Rossi, Norwegian University of Science and Technology, NOR

Vincenzo Sciancalepore, NEC Laboratories Europe, DEU
Miaowen Wen, South China University of Technology, CHN
Chau Yuen, Nanyang Technological University, SGP

Alexio Zappone, University of Cassino and Southern Lazio, ITA

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