2022 5th IEEE 5G Workshop on First Responder and Tactical Networks

November 7, 2022, 8:30 AM–5:00 PM EST

In collaboration with the Department of Homeland Security, Science and Technology Directorate (DHS S&T) and the Office of Under Secretary of Defense for research and Engineering (OUSD R&E) - 5G

Visit bit.ly/5GFRTN-22 to view the workshop website and speaker bios.
WORKSHOP AGENDA

ON-SITE VENUE

Kossiakoff Conference Center, 11100 Johns Hopkins Road, Laurel, MD 20723 USA (Google Map). More information about the traveling to the center can be found on the Applied Physics Laboratory webpage.

REMOTE

https://jhuapl.zoomgov.com/j/1615766684?pwd=WktQZVlYaVAYT2FuTlZxcWhSMm11QT09
ID: 161 576 6684  Password: 608271

MORNING SESSION

Remote attendee can join here.

Session Chairs: Ashutosh Dutta, JHU/APL and IEEE Future Networks Initiative Co-Chair; and Julia Andrusenko, JHU/APL

08:30 AM - 08:40 AM EST   Introduction and IEEE Future Networks (Ashutosh Dutta, IEEE Future Networks Co-Chair and Brad Kloza, Program Direction, Future Networks)
08:40 AM - 08:50 AM EST   Welcome Remarks (Louis A. Colangelo, JHU/APL Mission Area Executive)
08:50 AM - 09:20 AM EST   Keynote Presentation: 5G – The Road Ahead, Accelerate Use: Tranche Prototyping and Experimentation (Debra K Stanislawski, OUSD)
09:20 AM - 09:40 AM EST   The Evolution of Priority Access in the 5G Environment and Beyond (Billy Bob Brown, Jr, DHS ECD)
09:40 AM - 10:00 AM EST   PAWR Platforms: Advancing Wireless Comms for Tactical Response (Mari Silbey, US Ignite)
10:00 AM - 10:20 AM EST   Network Reliability of 5G First Responder and Tactical Networks (Bob Stephens, KeySight Technologies)
10:20 AM - 10:40 AM EST   Gaps and Opportunities in Nascent 5G Tactical market (Salvadore D’Ittri, NSC)

10:40 AM - 10:50 AM EST   Morning Break

10:50 AM - 11:10 AM EST   How can we leverage 5G to enhance tactical communication capabilities? (Venkatesh Ramaswamy, MITRE)
11:10 AM - 11:30 AM EST   A simulation study of 5G New Radio Sidelink in Public Safety Communications (Chunmei Liu, NIST)
11:30 AM - 11:50 AM EST   5G Tactical Networks - Considerations (Brian Kassa, Ericsson)
11:50 AM -12:10 PM EST   5G non-terrestrial networks (Qiang Wu, Qualcomm)
12:10 PM - 12:30 PM EST   Features and Gaps in a Deployable Wireless Video & Sensor Network A Field Study Review (Gordon Beattie, Viavi Solutions)
12:30 PM - 01:00 PM EST   Lunch Break

Live Streaming https://ieeetv.ieee.org/5G-Workshop
# AFTERTNOON SESSION

Remote attendee can join [here](#).

**Session Chairs: Pamela Patto, JHU/APL and Don Herres, IEEE Region 2 South Area Chair**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>01:00 PM - 01:30 PM EST</td>
<td><strong>Keynote Presentation:</strong> Examining DHS 5G Mission Use Cases and other Interoperability &amp; Standards Conformance efforts (Sridhar Kowdley, DHS S&amp;T)</td>
</tr>
<tr>
<td>01:30 PM - 01:50 PM EST</td>
<td>The Connected First Responder (Mike Varney, FirstNet)</td>
</tr>
<tr>
<td>01:50 PM - 02:10 PM EST</td>
<td><strong>INDIGO: Intelligent 5G Networks Designed and Integrated for Globalized Operations</strong> (Tracy Van Brakle, AT&amp;T)</td>
</tr>
<tr>
<td>02:10 PM - 02:30 PM EST</td>
<td>Advanced communication (5G) and (AI/ML/DL) to meet Mission Objectives for Situational Awareness and Response (Stan Mo, Gretchen Stewart, Leland Brown, Intel)</td>
</tr>
<tr>
<td>02:30 PM - 02:50 PM EST</td>
<td>Open-RAN Enabling Homeland Secure Networks (Kamakshi Sridhar, Mavenir)</td>
</tr>
<tr>
<td>02:50 PM -03:10 PM EST</td>
<td>Information Trust Environment and possibilities in 5G (Gabriel A Martinez, DHS, CISA ECD)</td>
</tr>
<tr>
<td><strong>03:10 PM - 03:20 PM EST</strong></td>
<td><strong>Coffee Break</strong></td>
</tr>
<tr>
<td>03:20 PM - 03:40 PM EST</td>
<td>Experimentation with Urban Situational Awareness Related Services (Ivan Seskar, Rutgers WINLAB)</td>
</tr>
<tr>
<td>03:40 PM - 04:00 PM EST</td>
<td>5G on the Moon – and why it’s Important for Tactical and First Responder Networks (Oscar Somerlock, JHU/APL)</td>
</tr>
<tr>
<td>04:00 PM - 04:10 PM EST</td>
<td>Accelerating 5G Innovations in Tactical Networks (Raymond Shen, KeySight Technologies)</td>
</tr>
<tr>
<td>04:10 PM - 04:20 PM EST</td>
<td>5G Tactical Network Deployment Challenges (Andrew Bolka, Booz-Allen-Hamilton)</td>
</tr>
<tr>
<td>04:20 PM - 04:30 PM EST</td>
<td>QoS Nudging rApp for Critical Communication (Eugene Gomes and Deepak Kataria, Ericsson)</td>
</tr>
<tr>
<td>04:30 PM - 04:40 PM EST</td>
<td>NextG RAN-sharing for Disaster-Recovery and Tactical Mission Partners (Praveen Gupta, MITRE)</td>
</tr>
<tr>
<td>04:40 PM - 04:50 PM EST</td>
<td>Roadmap for a Digital-Twin Enabled Testbed for Public Safety Communication Technologies (Jian Tao, Texas A&amp;M)</td>
</tr>
<tr>
<td>04:50 PM - 05:00 PM EST</td>
<td>Closing Remarks (Robert Bartholet, JHU/APL)</td>
</tr>
<tr>
<td><strong>05:00 PM - 06:00 PM EST</strong></td>
<td><strong>Reception</strong></td>
</tr>
</tbody>
</table>
PATRONS

DIAMOND

KEYSIGHT
TECHNOLOGIES

PLATINUM

Qualcomm

EXHIBITORS

VIAVI Solutions

dualos

JOHNS HOPKINS
INSTITUTE for
ASSURED AUTONOMY

EVENT PARTNERS

MOVE
DISASTER
RELIANCE &
OUTREACH
AN IEEE INTERNATIONAL PROGRAM

IEEE★USA

IEEE.tv

IEEE Princeton/Central Jersey Section