

| Data and Time | Program – IEEE IoT Vertical Summit at RWW2023 |
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| <p>Session 1 Wednesday January 25, 2023</p> <p>Face to Face and Online</p> <p>01:00pm-03:00pm PST 04:00pm-06:00pm EST</p> | <p>Chair: Jasmin Grosinger</p> <ul style="list-style-type: none"> • Adam Drobot, Chairman, OpenTechWorks Inc. Wayne, PA USA Talk Title: Quantum Information Technology and the Internet of Things • Prof. Joseph Bardin, University of Massachusetts Amherst, Massachusetts, United States, and Research Scientist with Google Quantum AI Talk Title: A brief introduction to quantum computing for microwave engineers. • Benjamin Dixon, Technical Staff, MIT Lincoln Laboratory, Lexington, Massachusetts, United States Talk Title: Quantum Memory Module Development and Scalable Quantum Networking |
| <p>Session 2 Wednesday January 25, 2023</p> <p>Face to Face and Online</p> <p>03:00pm-05:00pm PST 06:00pm-08:00pm EST</p> | <p>Chair: Charlie Jackson</p> <ul style="list-style-type: none"> • Prof. Joseph Bardin, University of Massachusetts Amherst, Massachusetts, United States, and Research Scientist with Google Quantum AI Talk Title: Microwave-related challenges associated with the implementation of large-scale superconducting quantum computers. • Prof. Roland Nagy, Group of Applied Quantum Technologies at the Friedrich-Alexander-University Erlangen-Nürnberg, Erlangen, Germany Talk Title: Applications of Quantum Sensing Technology |
| <p>Session 3 Monday January 30, 2023</p> <p>Virtual – Live Online</p> <p>08:00am-11:00am PST 11:00am-01:00pm EST</p> | <p>Chair: Adam Drobot</p> <ul style="list-style-type: none"> • Kirk Bresniker, Hewlett Packard Labs Chief Architect, HPE Fellow/VP, Palo Alto, California, United States Talk Title: Extraordinary claims demand extraordinary engineering – the When and Where of Quantum Computing. • Dr. Robert McConnell, Technical Staff, MIT Lincoln Laboratory, Lexington, Massachusetts, United States Talk Title: Integrated Technologies for Trapped-Ion Quantum Information Processing and Metrology • Catherine Lee, Technical Staff, MIT Lincoln Laboratory, Lexington, Massachusetts, United States Talk Title: Free-space Quantum Networking and Synchronization |
| <p>Session 4 Tuesday January 31, 2023</p> <p>Virtual – Live Online</p> <p>08:00am-11:00am PST 11:00am-01:00pm EST</p> | <p>Chair: Mark Gouker</p> <ul style="list-style-type: none"> • Dr. Kevin Obenland, Senior Technical Staff, MIT Lincoln Laboratory, Lexington, Massachusetts, United States Talk Title: Software for Quantum Hardware and Algorithm Development in the NISQ Era and Beyond. • Luca Mazzarella and Henk Polinder, QuTech, The Netherlands Talk Title: Quantum Inspire: Quantum Inspire: QuTech’s platform for co-development and collaboration in Quantum Computing. • Matthew Keesan, IonQ, College Park, Maryland, United States Talk Title: Cloud Access to IonQ Computer |
| <p>Session 5 Wednesday February 1, 2023</p> <p>Virtual – Live Online</p> <p>08:00am-11:00am PST 11:00am-01:00pm EST</p> | <p>Chair: Charlie Jackson</p> <ul style="list-style-type: none"> • Prof. Vadim Issakov, Head of Institute for CMOS design, Braunschweig University of Technology, Braunschweig, Germany Talk Title: Circuit and System-Level Considerations towards Scalable Trapped Ion Quantum Computer. • Anastasia Marchenkova, Research Scientist, Bleximo Corp., Berkeley, CA United States Talk Title: Quantum Advantage with Application Specific Quantum Devices. • Dr. Advait Deshpande, Lecturer, The Open University, Milton Keynes, United Kingdom Talk Title: Quantum computing state-of-play and the future of the Internet of Things. |
| <p>Session 6 Thursday February 2, 2023</p> <p>Virtual – Live Online</p> <p>08:00am-11:00am PST 11:00am-01:00pm EST</p> | <p>Chair: Adam Drobot</p> <ul style="list-style-type: none"> • Dr. Alirio S. Boaventura, Senior Scientist, Maybell Quantum Industries, Denver, Colorado, United States Talk Title: Microwave Engineering the Next Generation of Quantum Processing Systems. • Dr. Robert I. Woodward, Researcher at Toshiba Europe Ltd., Cambridge, England, United Kingdom Talk Title: Quantum Communications and QKD Technology. • Dr. Ahmed Farouk, Assistant Professor, South Valley University, Quena, Egypt Talk Title: Quantum Computing: A Tool for IoT-Blockchain Networks. |
| <p>Session 7 Friday February 3, 2023</p> <p>Virtual – Live Online</p> <p>08:00am-11:00am PST 11:00am-01:00pm EST</p> | <p>Chairs: Jasmin Grosinger, Mark Gouker, Charlie Jackson, and Adam Drobot</p> <ul style="list-style-type: none"> • Niko Mohr, Partner, McKinsey, Düsseldorf, Germany Talk Title: The Quantum Information Technology Landscape, Quantum Sensing, and the Path to Maturity. • Dr. Joel Q. Grim, Research Physicist, US Naval Research Laboratory, Washington, D.C., United States Talk Title: Scalable integrated quantum dot networks and nanophotonic neuromorphic ‘brain-inspired’ computing. |
| <p>Session 8 Monday February 20, 2023</p> <p>Virtual – Live Online</p> <p>08:00am-11:00am PST 11:00am-01:00pm EST</p> | <p>Chairs: Jasmin Grosinger and Adam Drobot</p> <ul style="list-style-type: none"> • Astrid Böttcher, PhD., Political Scientist and Researcher, University of Jena, Jena, Germany Talk Title: Quantum Humanities – A Research Field. • Prof. Eli Yablonovitch, Electrical Engineering and Computer Sciences Dept., University of California, Berkeley, California USA Talk Title: Physics does Optimization (for Free); A New Approach Toward Computation. |