

# EUROPEAN WIRELESS 2021

EW 2021


[Conference](#) » Program

## European Wireless 2021 Program

Time	Sala Accademia	Arena Casarini
<b>Wednesday, November 10</b>		
09:00-12:30	TUT-1: <i>Towards Global Connectivity Using Aerial and Space Networks</i>	
14:00-18:00	TUT-2: <i>AI-enabled Optimization in Virtualized Wireless Networks: An Open RAN Perspective</i>	
<b>Thursday, November 11</b>		
09:30-10:30		5GS-1: <i>5G Systems - Part 1</i>
10:50-11:30		5GS-2: <i>5G Systems - Part 2</i>
11:30-12:30		K1: <i>Keynote: 6G - The Journey Towards a New Breeze of Cloud-Native Mobile Networking</i>
14:00-15:00		K2: <i>Keynote: Post Shannon Communication for 6G and Quantum Communication</i>
15:00-16:00		5GW-1: <i>5G and Wireless Communications - Part 1</i>
16:20-18:00		5GN: <i>5G Networking</i>
<b>Friday, November 12</b>		
09:00-12:30		TUT-3: <i>Reconfigurable Intelligent Surfaces for Future Wireless Communications</i>
14:00-15:00		K3: <i>Keynote: Airborne and terrestrial towers shape future communication infrastructure</i>

15:00- 16:00		<b>5GW-2:</b> <i>5G and Wireless Communications - Part 2</i>
16:20- 18:00		<b>TI:</b> <i>Tactile Internet and IoT</i>

## Wednesday, November 10

Wednesday, November 10 9:00 - 12:30

TUT-1: Towards Global Connectivity Using Aerial and Space Networks

Wednesday, November 10 14:00 - 18:00

TUT-2: AI-enabled Optimization in Virtualized Wireless Networks: An Open RAN Perspective

## Thursday, November 11

Thursday, November 11 9:30 - 10:30

5GS-1: 5G Systems - Part 1

***Towards a Safer Smart Grid: Bayesian Prediction of Non Detectable Electrical Faults at the Edge***  

Abdelrahman Abdelkader (Nokia Bell Labs, Germany); Roberto Torre and Ilya Sychev (Technische Universität Dresden, Germany); Hani Salah (TU Dresden, Germany); Riccardo Bonetto (Athonet S. R. L, Germany); Frank H.P. Fitzek (Technische Universität Dresden & ComNets - Communication Networks Group, Germany)

***Performance of Generalized Deduplication Under Different Input Conditions***  

Prasad Talasila and Daniel E. Lucani (Aarhus University, Denmark)

***An Intrusion Detection System Implemented with Instance Selection Based on Locality Sensitive Hashing for Data Reduction***  

Gianmarco Baldini (Joint Research Centre - European Commission, Italy); José Luis Hernandez Ramos (European Commission - Joint Research Centre (JRC), Belgium)

Thursday, November 11 10:50 - 11:30

5GS-2: 5G Systems - Part 2

***An Optimization Approach to Energy-Efficient UAV Communications in Cellular Networks***  

Giovanni Iacovelli, Pietro Boccadoro and Luigi Alfredo Grieco (Politecnico di Bari, Italy)

***On the Design of the Drone Control Layer***  

Giovanni Grieco, Giovanni Iacovelli, Pietro Boccadoro and Luigi Alfredo Grieco  
(Politecnico di Bari, Italy)

**Thursday, November 11 11:30 - 12:30**

**K1: Keynote: 6G - The Journey Towards a New Breeze of Cloud-Native Mobile Networking**

**Thursday, November 11 14:00 - 15:00**

**K2: Keynote: Post Shannon Communication for 6G and Quantum Communication**

**Thursday, November 11 15:00 - 16:00**

**5GW-1: 5G and Wireless Communications - Part 1**

***A Half-Duplex Two-Way Relay Station Assisted Cellular Uplink and Downlink Communications***  

Erhan Yilmaz (ASELSAN, Turkey)

***Deep Learning Based Real-Time Spectrum Analysis for Wireless Networks***  

Jakob Wicht (Fraunhofer IIS EAS, Germany); Ulf Wetzker (Fraunhofer Institute for Integrated Circuits IIS, Germany); Andreas Frotzschler (Fraunhofer Institute for Integrated Circuits IIS & Design Automation Division EAS, Germany)

***Deep Learning Based Prediction of Channel Profile for LTE and 5G Systems***  

Thinh Ngo and Brian T Kelley (University of Texas at San Antonio, USA); Paul Rad (University of Texas at San Antonio, USA)

**Thursday, November 11 16:20 - 18:00**

**5GN: 5G Networking**

***Enhancing Vehicular Ad Hoc Network (VANET) Protocols***  

Osama AlQahtani (University of Idaho, USA)

***ML-Based Application Performance Modelling over a SDN Network Using End-To-End and Link Metrics***  

Lei Wang (University College Dublin (UCD), Ireland); Declan Delaney (University College Dublin, Ireland)

***Analytical Performance Investigation of CRLNC in Single Hop Communication*** 

[Paul Schwentek](#) and [Rico Radeke](#) (Technische Universität Dresden, Germany);  
[Frank H.P. Fitzek](#) (Technische Universität Dresden & ComNets -  
 Communication Networks Group, Germany)

**[A Stochastic Model for Age-Of-Information Efficiency in ARQ Systems with Energy Harvesting](#)**  

[Laura Crosara](#) and [Leonardo Badia](#) (Università degli Studi di Padova, Italy)

**[5G NSA and SA Campus Network Testbeds for Evaluating Industrial Automation](#)**  

[Stefan Senk](#) and [Sebastian A. W. Itting](#) (Technische Universität Dresden, Germany); [Jennifer Gabriel](#) (Technical University of Dresden, Germany);  
[Christopher Lehmann](#) (Technische Universität Dresden, Germany); [Thomas Höschele](#) (Technische Universität Dresden, Germany); [Frank H.P. Fitzek](#) (Technische Universität Dresden & ComNets - Communication Networks Group, Germany); [Martin Reisslein](#) (Arizona State University, USA)

## Friday, November 12

Friday, November 12 9:00 - 12:30

TUT-3: Reconfigurable Intelligent Surfaces for Future Wireless Communications

Friday, November 12 14:00 - 15:00

K3: Keynote: Airborne and terrestrial towers shape future communication infrastructure

Friday, November 12 15:00 - 16:00

5GW-2: 5G and Wireless Communications - Part 2

**[Energy Driven Transmission Schemes for Coexistence Between HTC and MTC](#)**



[Sergi Liesegang](#) and [Antonio Pascual-Iserte](#) (Universitat Politècnica de Catalunya, Spain); [Olga Muñoz-Medina](#) (Technical University of Catalonia, Spain)

**[Low Time-Complexity Learning-Aided Codebook-Based Beam Forming Selection in mmWave System](#)**  

[Zekai Liang](#), [Szu-jung Wu](#) and [Gerd H. Ascheid](#) (RWTH Aachen University, Germany)

**[Selection of Relays in Multi-Pair D2D Communication with Multicast](#)**  

Toha Ardi Nugraha, Zdenek Becvar and Pavel Mach (Czech Technical University in Prague, Czech Republic)

Friday, November 12 16:20 - 18:00

TI: Tactile Internet and IoT

***Designing a 60 GHz Sub-Milliwatt Transceiver for Wireless Body-Area-Networks***  

Helmuth Morath and Xin An (TU Dresden, Germany); Paolo Valerio Testa and Frank Ellinger (Technische Universität Dresden, Germany); Jens Wagner (Technische Universität Dresden & Chair for Circuit Design and Network Theory, Germany); Karlheinz Bock (Technische Universität Dresden, Germany)

***Emulation vs. Reality: Hardware and Software Co-Design in Emulated and Implemented Time-Sensitive Networks***  

Marian Ulbricht (TU Dresden & InnoRoute GmbH München, Germany); Javier Acevedo (Technical University of Dresden, Germany); Surik Krdoyan (TU Munich, Germany); Frank H.P. Fitzek (Technische Universität Dresden & ComNets - Communication Networks Group, Germany)

***Empirical Performance Evaluation of Enterprise Wi-Fi for IIoT Applications Requiring Mobility***  

Andreas Fink and Rasmus Mogensen (Aalborg University, Denmark); Ignacio Rodriguez (Aalborg University, Denmark); Troels E. Kolding (Nokia, Denmark); Anders Karstensen (Aalborg University, Denmark); Guillermo Pocovi (Nokia Bell Labs, Denmark)

***A Framework for Light-Weight Gesture Classification Based on IMU Data***  

Hans-Georg Engler, Axel Schmidt and Christiane Dehnbostel (TU Dresden, Germany); Anne Wolf (Dresden University of Technology, Germany); Christian Scheunert (TU Dresden, Germany)

***Hardware Accelerated Cryptography for Tactile Internet***  

Javier Acevedo (Technical University of Dresden, Germany); Marian Ulbricht (TU Dresden & InnoRoute GmbH München, Germany); Jennifer Gabriel (Technical University of Dresden, Germany); Frank H.P. Fitzek (Technische Universität Dresden & ComNets - Communication Networks Group, Germany)