



# ISWCS 2021

## 17<sup>th</sup> International Symposium on Wireless Communications Systems

6 to 9 September,  
2021  
Berlin, Germany

Virtual Conference

### General Chairs:

Slawomir Stańczak, TU Berlin & Fraunhofer HHI, Germany  
Eduard A. Jorswieck, TU Braunschweig, Germany

### General Co-Chairs:

Hirley Alves, 6G Flagship, University of Oulu, Finland  
Faouzi Bader, CentraleSupélec, Rennes, France

### Steering Committee:

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Petar Popovski, Aalborg University, Denmark

### Technical Program Co-Chairs:

Anke Schmeink, RWTH Aachen, Germany  
Paul Patras, University of Edinburgh, United Kingdom  
Xavier Costa-Pérez, i2cat and ICREA, Barcelona, Spain

### Special Sessions Chairs:

Tobias Öchtering, KTH Stockholm, Sweden  
James Gross, KTH Stockholm, Sweden

### Tutorials Chairs:

Peter Jung, TU Berlin, Germany  
Masahiro Yukawa, Keio University, Japan  
Renato L. G. Cavalcante, Fraunhofer HHI, Germany

### Workshops Chairs:

Leonardo Badia, Università degli Studi di Padova, Italy  
Gerhard Wunder, FU Berlin, Germany

### Publications Chairs:

Pin-Hsun Lin, TU Braunschweig, Germany  
Bho Matthiesen, University of Bremen, Germany

### Website and Publicity Chairs:

Navneet Agrawal, TU Berlin, Germany  
Matthias Frey, TU Berlin, Germany

### Liaison Chairs:

*Asia:* Tadashi Matsumoto, JAIST, Japan  
*South America:* Lukas Landau, PUC Rio, Brazil

### Important Dates

Full paper submission: ~~April 12, 2021~~  
May 21, 2021

Acceptance notification: July 07, 2021

Camera-ready paper: July 30, 2021

Conference: September 06 to 09, 2021

### Submissions here:

<https://edas.info/N26715>

## Call for Papers

The aim of this symposium is to provide a forum for researchers and technologists to present new ideas and contributions in the form of technical papers, panel discussions, as well as real-world evaluation in the field of wireless communications, networking and signal processing. This 17th symposium will bring together various wireless communication systems developers to discuss the current status, technical challenges, standards, fundamental issues, and future services and applications.

## Keynote Speakers

### Gerhard Kramer

Technical University of Munich

### Helmut Bölcskei

ETH Zürich

### Sergio Barbarossa

University of Rome "La Sapienza"

### H. Vincent Poor

Princeton University

## Topics of Interest

5G wireless systems and beyond, Information- and communication-theoretic analysis of wireless systems, Energy efficiency of wireless communications and networks, Backscatter communication, energy harvesting, and wirelessly powered communication, Smart-grid communications, Millimeter Wave Communication Theory, Sub-Terahertz Communication Theory, Spectrum sensing, sharing, learning and prediction, Duplexing, full-duplex and two-way wireless communication, Massive MIMO, holographic MIMO, very large aperture arrays, and cell-free network architectures, Non-orthogonal transmission methods for multi-user systems (NOMA, rate splitting), Visible light communication, Smart meta surfaces, Satellite and space communications, Quantum communications, Molecular communications, Physical layer security, Private communications and computations, UAV-communication and UAV-assisted wireless networks, Massive Internet of Things (IoT) communication, cellular and low-power wide area networks, smart cities, Ultra-reliable Low Latency Communication (URLLC), Vehicle-to-Everything (V2X) ecosystems, Network programmability and network slicing, Resource allocation, Machine Learning at the PHY and MAC Layer, Computing and machine learning for wireless network optimization, Wireless network architecture to support distributed learning, Cloud, fog, and edge network architectures, Positioning, localization, and radar, Testbeds, measurements, and analytics.

## Submission Guidelines

Prospective authors are invited to submit high-quality original technical papers (max 6 pages, 10 point font size) for presentation at the conference and publication in the ISWCS 2021 Proceedings and IEEE Xplore. All papers should be submitted via EDAS, using standard IEEE conference templates.

The conference will be held online via a virtual conference platform, ready with a new presentation format to foster more interactions.

The registration fee will not exceed 120 Euros for full registration.