# 

LUCCA.ITALY.2021

22nd IEEE INTERNATIONAL WORKSHOP ON SIGNAL PROCESSING ADVANCES IN WIRELESS COMMUNICATIONS

September 27 -30, 2021

www.spawc2021.com

# **SPAWC 2021** invites original contributions in the following (but not limited to) areas:

- MIMO systems (massive-, multi user-, cell-free, ...)
- Machine learning for wireless communications and networking
- Cooperative communication
- Resource allocation
- Sparse signal processing for wireless communications
- Millimeter wave and terahertz communications
- Full duplex systems
- Cognitive radio and networks
- Cooperative, compressed, and sparse sensing
- Machine-to-machine, device-to-device communications
- Modeling, estimation and equalization of wireless channels
- Acquisition, synchronization, localization and tracking
- Signal processing for optical, satellite, and underwater communications
- Energy efficiency and energy harvesting
- Distributed signal processing and uncoordinated access
- Internet of things
- Cache-aided communications
- Broadband, ultra-reliable, and low latency solutions for 5G and beyond
- Experimental setups

### **General Chair**

Luca Sanguinetti, University of Pisa, Italy

### **Technical Program Co-Chairs**

Emil Björnson, Linköping University, Sweden Osvaldo Simeone, King's College London, UK

### **Tutorial Chair**

Erik G. Larsson, Linköping University, Sweden

### **SPAWC Talks Chair**

Angel Lozano, Universitat Pompeu Fabra, Spain

### **Special Session Co-Chairs**

Martina Cardone, University of Minnesota, USA Mari Kobayashi, Technical University of Munich, Germany

### Data Competition Chair

Timothy O'Shea, DeepSig, USA

### Financial Chair

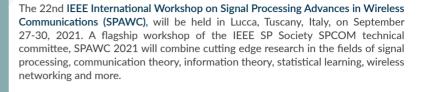
Maria Sabrina Greco, University of Pisa, Italy

### Industrial Liaison/Sponsoring

Onur Sahin, InterDigital, UK

### **Publicity Chair**

Shi Jin, Southeast University, China



All invited and regular papers, with up to 5 pages of technical content (including references), will be published through IEEE Xplore.

### Structure of the Technical Program

The technical program will follow the successful style of SPAWC, with morning and afternoon keynote talks, and poster sessions in between.

A Call-for-Special-Sessions on hot topics in the society will be published. In addition to the keynotes, the program will feature several SPAWC Talks given by leaders in both academia and industry. While each keynote will provide an introduction and overview of a topic, in a style that suits all the attendees, the SPAWC talks disseminate the latest developments in the same topic area as the keynotes.

### Tutorial and Special Session Proposals

Tutorials will be held on September 27, 2021. Brief tutorial proposals should include title, outline, contact information, biography and selected publications for the presenter(s), and a description of the tutorial and material to be distributed to participants. Special session proposals should include title, rationale, session outline, contact information, and a list of invited papers.

### Student Paper Contest Guidelines

The committee will select approximately 10 papers for the Student Paper Contest. Final selection of 3 winners will be made after the completion of Student Paper Contest on September 27, 2021.

### **Data Competition**

SPAWC 2021 will include a data competition to develop algorithms for a problem related to signal processing and communication theory.





## www.spawc2021.com

### Important Dates

- Special Session Proposals Due
- Decisions for Special Sessions
- Paper Submissions Due
- Acceptance Notification
- Revised Paper Upload Deadline
- Author Registration Deadline
- Travel Grant Application Deadline

March 21, 2021
March 28, 2021
April 11, 2021
July 5, 2021
July 11, 2021
July 11, 2021
July 11, 2021





