



SPAWC

LUCCA.ITALY.2021

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

September 27 -30, 2021

www.spawc2021.com

SPAWC 2021

Lucca, Italy
September 27 -30, 2021

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

Organizing committee

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*

The 22nd IEEE International Workshop on Signal Processing Advances in Wireless Communications (SPAWC), will be held in Lucca, Tuscany, Italy, on September 27-30, 2021. A flagship workshop of the IEEE SP Society SPCOM technical committee, SPAWC 2021 will combine cutting edge research in the fields of signal processing, communication theory, information theory, statistical learning, wireless networking and more.

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 | March 21, 2021 |
| • Decisions for Special Sessions | March 28, 2021 |
| • Paper Submissions Due | April 11, 2021 |
| • Acceptance Notification | July 5, 2021 |
| • Revised Paper Upload Deadline | July 11, 2021 |
| • Author Registration Deadline | July 11, 2021 |
| • Travel Grant Application Deadline | July 11, 2021 |

