

# Call for papers

## Signal Processing for Communications (SPC)

IEEE ICNC 2023

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<http://www.conf-icnc.org/2023>

### Symposium Co-Chairs

Rui Dini, Universidade NOVA de Lisboa, Portugal ([rdinis@fct.unl.pt](mailto:rdinis@fct.unl.pt))

Chong Han, Shanghai Jiaotong University, China ([chong.han@sjtu.edu.cn](mailto:chong.han@sjtu.edu.cn))

### Scope

The Signal Processing for Communications Symposium focuses on topics related to methodologies, theories, performance analysis and implementations of signal processing for communication systems. Of special interests are signal processing of communication systems and applications to new frontiers including ultra-massive MIMO, Terahertz communications, and 6G communications. To ensure complete coverage of the advances in this field, the symposium solicits original contributions in, but not limited to, the following topical areas:

- Channel modeling, estimation, and equalization
- Adaptive antennas and beamforming
- Signal detection and synchronization
- Faster-than-Nyquist signaling
- Compressive sensing techniques
- Millimeter-wave and Terahertz communications
- Cognitive radio and software defined radio
- Modulation, coding, and diversity techniques
- Underwater, underground, and space communications
- Massive MIMO, Ultra-massive MIMO Systems
- Massive random access
- OFDM, OTFS and multi-carrier systems
- Non-Orthogonal Multiple Access (NOMA), Rate-splitting
- Resource allocation and cross-layer design
- Localization and position techniques
- Signal processing techniques for machine learning (ML) and artificial intelligence (AI)
- Signal processing techniques for green communications and energy harvesting
- Signal processing techniques for smart-grid communications
- Signal processing techniques for security and cryptography
- Signal Processing Techniques for 6G communications and beyond

### Submission Guidelines

Perspective authors should follow the instructions at <http://www.conf-icnc.org/2023/author.htm> to prepare their manuscripts. All papers should be submitted via EDAS. Submission information can be found at <http://www.conf-icnc.org/2023/cfp.htm>.

## Short Biographies of Co-Chairs

**Rui Dini** (to be updated)

**Chong Han** is with Shanghai Jiao Tong University, Shanghai, China, where he is currently an Associate Professor and the Director of the Terahertz Wireless Communications (TWC) Laboratory. He obtained the Master of Science and the Ph.D. degrees in Electrical and Computer Engineering from Georgia Institute of Technology, Atlanta, GA, USA, in 2012 and 2016, respectively. He received 2019–2021 Distinguished TPC Member Award, IEEE International Conference on Computer Communications (INFOCOM) and 2018 Elsevier Nano Communication Network Journal Young Investigator Award, 2018 Shanghai Chenguang Funding Award, and 2017 Shanghai Yangfan Funding Award. He is a guest editor with IEEE Journal on Selected Topics in Signal Processing (JSTSP) and IEEE Transactions on Nanotechnology, an editor with IEEE Open Journal of Vehicular Technology since 2020, and an editor with Elsevier Nano Communication Network journal since 2016. He has published 6 book chapters, 50+ journal articles, and 60+ conference papers. He is a TPC Co-Chair or General Co-Chair or Steering Committee Member for the 1st–6th International Workshop on Terahertz Communications, in conjunction with IEEE ICC 2019, Globecom 2019, ICC 2020, ICC 2021, ICC 2022, and Globecom 2022. Furthermore, he is serving as a Vice Chair of IEEE ComSoc RCC Special Interest Group (SIG) on THz Communications.