



## International Symposium on Wireless Communication Systems 2024

14-17 July 2024,  
Rio de Janeiro, Brazil



### Call for Papers

#### General Chair

Rodrigo C. de Lamare,  
*PUC-Rio, Brazil and University of York,  
United Kingdom*

#### Technical Chairs

Lukas Landau,  
*PUC-Rio, Brazil*  
Martin Haardt,  
*TU Ilmenau, Germany*  
Bartolomeu Uchôa Filho  
*ITA, Brazil*

#### Special Sessions Chair

Amine Mezghani,  
*University of Manitoba, Canada*

#### Publicity Chair

Anke Schmeink,  
*RWTH Aachen University, Germany*

#### Tutorials Chair

Veronica Belmega, *ESIEE, France*

#### Steering Committee

Yuming Jiang, *NTNU, Norway*  
Rodrigo C. de Lamare, *PUC-Rio and  
University of York, UK*  
Didier Le Ruyet, *CNAM, France*  
Carlos Bader, *TII, UAE*  
Eduard Jorswieck, *TU Braunschweig,  
Germany*

#### Important Dates (tentative)

Special Session Proposals  
**7<sup>th</sup> February, 2024**

Submission of Papers  
**6<sup>th</sup> March, 2024**

Notification of Acceptance  
**1<sup>st</sup> May, 2024**

Final Manuscript Submission  
**22<sup>nd</sup> May, 2024**

Advance Registration  
**22<sup>nd</sup> May, 2024**

#### Technical Program

The International Symposium on Wireless Communication Systems 2024 (ISWCS 2024) is an event dedicated to wireless communication systems and its applications. The organizing committee invites the international community to contribute with state-of-the-art developments in the field. ISWCS 2024 will feature plenary talks by leading researchers in the field as well as poster and oral sessions with presentations by the participants.

**Welcome to Rio de Janeiro!** – The symposium will be held at the Pontifical Catholic University of Rio de Janeiro, located in Gávea, in a superb area surrounded by beaches, mountains, the Botanic Garden, the Jockey Club race course and the Tijuca National Forest, the world's largest urban forest. Rio de Janeiro is a world renowned city for its culture, beautiful landscapes, numerous tourist attractions and international cuisine. The event will take place in the middle of July in the beginning of the winter when Rio offers plenty of cultural activities, pleasant weather and winter festivities.

#### Research Topics

Authors are invited to submit papers on topics including, but not limited to:

- Multiple-antenna systems: XL, cell-free, multiuser and distributed MIMO
- Multiple access techniques: NOMA, RSMA and novel approaches
- Machine learning for wireless communications
- Integrated sensing and communications
- Cloud, fog and edge architectures
- Localization and positioning techniques
- Detection, synchronization and parameter estimation
- Interference mitigation methods
- Integrated sensing and communications
- Channel coding and iterative processing
- Intelligent reflective surfaces
- Resource allocation
- Adaptive and array signal processing
- Distributed and federated learning techniques
- Physical-layer security
- Communication protocols
- MmWave and Terahertz communications

#### Application areas

- Cellular networks
- Data science
- Internet of things and sensor networks
- Local area networks
- Satellite networks
- Underwater networks
- Social networks
- Vehicular and UAV networks

**Submission of papers** – Prospective authors are invited to submit full papers, with up to six (6) pages of technical content.

**Special sessions proposals** – They should be submitted by e-mail to the Technical Program Chairs and the Special Sessions Chair and include a topical title, rationale, session outline, contact information, and list of invited speakers.