

IEEE ICNSC 2023

October 25-27, 2023, Marseille, France



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Systems, Man, and Cybernetics Society



Theme: Which technologies for green, efficient, responsive, and resilient networks in a crisis context?

Sustainable economic development while preserving the environment is a major challenge of the 21st century. Thus, the main theme of the conference is “Which technologies for green, efficient, responsive and resilient networks in a crisis context?”.

The 2023 IEEE International Conference on Networking, Sensing and Control will be held in Marseille France's third-largest city and home to the country's largest port. It will feature plenary speeches (Prof. Alexandre Dolgui, Prof. Duc Truong Pham & Prof. Mengchu Zhou), panel sessions, tutorials, workshops, and invited/special sessions. Contributions are expected from academia, industry, and management agencies.

Conference website: <https://icnsc2023.lis-lab.fr/>



Technical topics of the conference include but are not limited to:

- Adaptive systems
- Autonomous agents and multi-agent systems
- Automobile control and sensor systems
- Big Data analytics
- Causal learning & Interpretability
- Collaborative systems
- Complex system management
- Continual learning
- Control of networks
- Cyber-physical systems
- Discrete event systems
- Distributed intelligent systems
- Digital twin
- Edge computing
- Emergency planning
- Fuzzy and neural systems
- Federated Learning
- Heterogeneity and decision making
- Heterogeneous wireless networks
- Human/computer interface
- Imbalanced classification
- Intelligent vehicle highway systems
- Internet of things
- Large-scale global optimization
- Medical and patient monitoring
- Meta learning
- Micro/nano, electro-mechanical sensor systems
- Multi-network integration
- Multi-objective optimization
- Multi-task optimization
- Model predictive control
- Network security
- Network-based computing systems
- Networked control systems
- Objective detection
- Quantum cybernetics
- Quantum machine learning
- Resilient control systems
- Reinforcement Learning
- Sensor design, integration and fusion
- Sensor networks
- Smart car and vehicle control
- Smart and green building
- Smart grids
- Smart civil aviation and aerospace
- Smart vision and image processing
- Social networking
- Soft sensing
- Space-based networking
- Swarm intelligence
- Transfer learning
- Wearable computing
- Wireless communications
- Wireless sensor networks

Call for invited sessions and workshops:

Invited sessions consist of 5-6 papers of the regular format focusing on targeted subjects and presenting a unifying theme. Invited session organizers should submit an abstract that summarizes the aim and the content of the invited session. The invited author should submit their papers to the respective accepted sessions. If at least 5 papers are accepted, the session is included in the conference program as an invited session. If an invited session is not accepted, accepted papers submitted to this session will be included in regular sessions. Invited sessions, grouped together in a track must be submitted independently. The track chairs are asked to contact the organizers prior to session proposal submissions.



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Call for contributed papers:

Authors are invited to submit papers (6 pages in IEEE two-column format, including figures, tables, and references.) reporting original research of theoretical or applied nature. They can submit a contribution either to an invited session, if it fits with the session, or as regular one. All paper submissions as well as Invited Session Proposals must be electronically submitted using the templates at Manuscript Templates for IEEE Conference proceedings from the conference website to prepare your paper. All submissions MUST be in PDF format. Special issues are planned in IJPR and several other prestigious International Journals for extended version of selected papers

Please notice that each topic corresponds to one session, so you must choose one and only one appropriate topic to clearly show which session your submission belongs to.

Key dates:

Workshop and Special session proposals deadline: March 15th, 2023

Submission deadline: April 15th, 2023

Results of peer review: June 15th, 2023

Camera-ready (Final version): July 15th, 2023

Early registration deadline: July 15th, 2023

Registration deadline: September 15th, 2023 (Only by credit card)

Conference: 25, 26 & 27 October 2023

Committees:

Honorary Chair: Eric Berton, President of Aix Marseille University, France

General Chair: Lyes Benyoucef, Aix Marseille University, France

General Co-Chair: Feng Chu, Évry Val-d'Essonne University, France

Program Chair: Jerry Chun-Wei Lin, Western Norway University of Applied Sciences, Norway

Program Co-Chair: Abdelhakim Khatab, Lorraine University, France

Organizing committee Chair: Hichem Haddou Benderbal, Aix Marseille University, France

Program committee members: Please visit the website <https://icnsc2023.lis-lab.fr>

Steering Committee:

Mengchu Zhou (Chair), New Jersey Institute of Technology, USA

Tsu-Tian Lee (Co-Chair), Tamkang University, Taiwan

Francesco Basile, University of Salerno, Italy

Ni-Bin Chang, University of Central Florida, USA

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