The 28th IEEE International Symposium On Real-Time Distributed Computing

IEEE ISORC 2025 (Hybrid Conference)

Toulouse, France
May 26-28, 2025
https://isorc.github.io/2025/
CALL FOR PAPERS

Organizing Committee

General Chairs
Thierry Gayraud
Univ of Toulouse, LAAS, France
Aniruddha Gokhale
Vanderbilt University, USA
Akram Hakiri
Univ Pau & Pays de l'Adour, France

Program Committee Chairs
Daniel Casini
Scuola Superiore Sant'Anna, Italy
Pascal Berthou
Univ of Toulouse, LAAS, France
Mustafa Al-Lail
Texas A&M Int University, USA

Steering Committee Chairs
Uwe Brinkschulte
Goethe Univ of Frankfurt, Germany
Robert G Pettit
George Mason University, USA

Local Management Chairs
Nicolas Riviere
Univ of Toulouse, LAAS, France

Industry Chair
Angelo Corsaro
ZettaScale Technology, France

Doctoral Symposium Chairs
Slim Abdellatif
INSA Toulouse, CNRS, LAAS, France

Dissertation Digest Chairs
Nicola Accettura
CNRS - LAAS, France

Tutorial Chairs
Mohamed Faten Zhani
University of Sousse, Tunisia

Panels Chairs
Christian ESPOSITO
University of Salerno, Italy

Posters and Demos Chairs
Nedra Mellouli
ESI Léonard de Vinci, Paris, France

Workshop Chairs
Jerome Hugues
Carnegie Mellon University, USA

Publicity Chairs
Maryline Laurent
Télécom Sud, Institut Polytechnique de Paris, France
Abdelouahed Gherbi
ETS, Montreal, Canada
Tang Yue
Northeastern Univ, Shenyang, China

Publication Chairs
Omar Alam
Trent University, Canada

Finance Chair
Hella Kaffel Ben Ayed
University Tunis El Manar, Tunisia

Web Chair
Akram Hakiri
Univ Pau & Pays de l'Adour, France

IEEE ISORC 2025

ISORC has been established as the leading event devoted to state-of-the-art research and state-of-the-practice applications in the field of real-time distributed computing. Celebrating the 28th anniversary since its foundation in 1998, ISORC continues the trend of providing an international forum for researchers and industry experts to exchange and share their experiences, ideas, latest research results on all aspects of Real-Time Distributed Computing technology.

Topics

IEEE ISORC 2025 invites high-quality papers on all aspects of Real-Time Distributed Computing technology, including, but not limited to:

- Software Architectures for Distributed and/or Real-Time Computing.
- Distributed and/or Real-Time Image, Video, and Stream Processing.
- Distributed and/or Real-Time Communication for Emerging and Future Networks.
- Blockchain and Distributed Ledger for Distributed and/or Real-time Computing.
- DevOps and CI/CD for Distributed and/or Real Time Computing
- AI/ML, LLM, ML on the Edge, Federated Learning for Distributed and/or Real-time Computing.
- Digital Twin for Distributed and/or Real-time Computing
- Cybersecurity, and Trust for Distributed and/or Real-Time IoT Systems.
- Optimization Approaches for Distributed and Real-Time Computing.
- Sustainable and Green Computing Transformation for Distributed and Real-Time Computing.
- Formal Verification and Model Checking for Distributed and Real-Time Computing.
- Ontology-Based Knowledge Modelling for Distributed and Real-Time Computing.
- Dependability, Fault Tolerance, and Resilience.
- Big Data, Algorithms, Models, and Techniques for Real-Time Analytics.
- Operating Systems, Middleware, and System Software.
- Distributed Management, Monitoring, Performance Evaluation.
- Distributed and/or Real-time Computing Applications in IoT, CPS, Edge-Cloud, etc.

Guidelines for Manuscripts

IEEE ISORC 2025 invites papers in the following categories:

- **Regular Research Papers:** Papers should describe original work and should **be 10 pages** maximum, **plus two extra purchased pages** for appendix and references.
- **Industrial Papers and Practitioner Reports:** Papers should be of **10 pages, plus 2 extra purchased pages** for appendix and references. Papers describing experiences of using ORC technology in application or tool development projects, are an integral part of the technical program of ISORC.
- **Short Papers:** Short research papers, **maximum 6 pages** are also invited, and should contain enough information for the program committee to understand the scope of the project and evaluate the novelty of the problem or approach.

All papers should be formatted in the standard **IEEE double-column format** using the published, and submitted through the **HotCRP** system: https://isorc25.hotcrp.com/

Important Dates

- Submission deadline extension: ~~January 08, 2025~~ -- **January 26, 2025**
- Acceptance notification: **March 05, 2025**
- Author registration deadline: **March 16, 2025**
- Camera-ready papers: **March 20, 2025**

Journal Publication Opportunity

The authors of selected papers from this symposium will be invited to submit an extended version of their work for the Special Issue on *AI-Driven Real-Time Distributed Computing for the Edge-Cloud Continuum* review and possible publication in the Elsevier Journal of Systems Architecture: Embedded Software Design (JSA).