

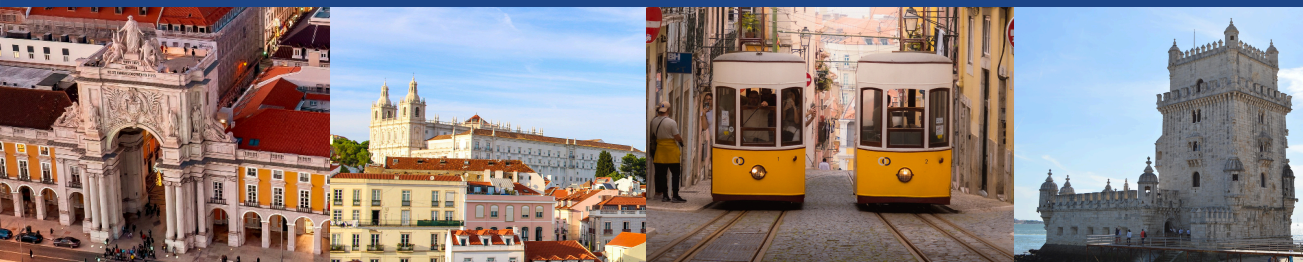


10th IEEE International Conference on Industrial Cyber-Physical Systems

ICPS 2027

May 10-14, 2027, Lisbon, Portugal

Website: icps2027.ieee-ies.org



CALL FOR PAPERS

The 10th IEEE International Conference on Industrial Cyber-Physical Systems (ICPS) will be held from Monday to Friday, **May 10-14, 2027**, in the beautiful city of Lisbon, Portugal.

Continuing with the success of the past ICPS-Editions held in [Russia \(2018\)](#), [Taiwan \(2019\)](#), [Finland \(2020\)](#), [Canada \(2021\)](#), [the UK \(2022\)](#), [China \(2023\)](#), [USA \(2024\)](#), [Germany \(2025\)](#), and the [Australia \(2026\)](#), **ICPS2027** aims to provide an international platform for cutting-edge research and professional interactions for the development of ICPS. Industry experts, researchers, and academics will share ideas and experiences surrounding frontier technologies, breakthroughs, innovative solutions, research and innovation results, as well as initiatives related to ICPS, AI-assisted Digital Transformation, and their applications. The conference program will feature a rich program, including research and innovation papers, as well as special sessions, tutorials, exhibitions, and an industry forum with thematic dedicated industry talks.

Topics within the scope of the conference (but not limited to):

- **ICPS Architectures & Engineering:** Industry Architectures, Industry ICPS Standards (RAMI 4.0, IIRA, etc.), Industrial IoT, Engineering Methods and Tools, ICPS Lifecycle Management, Integration, Humans and ICPS (H-CPS-I), Safety, Engineering Systems of ICPS, ICPS Standards, ICPS Development/Engineering Best Practices.
- **ICPS Theory and Technologies:** Core ICPS Technologies, Security & Trust, Communication Networks for ICPS, Connectivity OT/IT, Control, Information Processing, Security, IoT/IoS, Edge/Fog/Cloud Computing.
- **ICPS and Data Science:** Big/Smart Data, Analytics, Synthetic Data, Data Management Technologies, Data Models, Semantics, Ontologies, and Simulations.
- **ICPS Automation & Autonomy:** Automation within ICPS Context for Industries (Agriculture, Healthcare, Factory, Maintenance, Manufacturing, Retail, Service, Supply Chain, Infrastructures, ICPS-Based Autonomous Systems, Robotics).
- **ICPS Energy:** Cyber-Physical Energy System Design and Operation, Renewable Energy, Energy Storage, Power Trains, Electric Vehicles, Microgrid, Smart Grid.
- **ICPS Advanced Modeling, Control, and Optimization:** ICPS System Modeling, ICPS Control Theory and Applications, System Optimization and Control.
- **ICPS Emerging Applications:** Smart Manufacturing, Smart Cities, Smart Home and Living, Smart Farming, Mobility, Water & Waste Water Management, Mining, Oil & Gas, Intelligent Enterprise, Smart Transportation, Internet of Underwater Things, Smart Medical Systems.
- **ICPS Education, Management, and Society:** Digital Skills, Education Curricula, Lifelong Learning & Training, Digital Society, Future of Work, Industry 5.0, Innovation Management, Visions/Roadmaps, Strategic Impact, Societal Implications, Sustainability, Innovation Management, Innovation Ecosystems.
- **Artificial Intelligence in ICPS:** Machine Learning, Deep Learning, Generative AI, Large Language Models, AI Explainability, AI on Edge/Cloud, Neuromorphic Computing, Foundation Models, AI Industrial Experiences.
- **Digital Transformation, Paradigms, Methods and Tools:** Industrial Metaverse, Asset Administration Shell (AAS), Digital Twin (DT), Data Spaces, Digital Product Passport (DPP), Connectivity and Interoperability.

Special Sessions: Prospective participants of ICPS 2027 are encouraged to propose (and upon approval, organize) special sessions in the focus areas under the conference topics.

Exhibitions & Industry Forum: ICPS 2027 will be held as part of the 2027 IEEE Industrial Informatics and Cyber-Physical System Summit. It aims at bringing together the international community from industry and academia to present the latest research results and share new ideas.

Tutorials: Several tutorials are planned to discuss the latest trends in ICPS. Prospective speakers should apply asap.

Paper Submission: Prospective paper authors are requested to electronically submit full papers in English following the instructions available on the conference website. Accepted and presented papers will be copyrighted by IEEE and published in conference proceedings, which will be eligible for inclusion in the IEEE Xplore online Digital Library and EI Compendex database.

Important Dates (deadlines)

Special Session Proposal:	12-Dec-2026
Tutorial Proposal:	12-Dec-2026
Full Paper Submission:	19-Feb-2027
Work in Progress:	16-Feb-2027
Notification of Acceptance:	19-Mar-2027
Final Paper Submission:	02-Apr-2027

Honorary Chairs:

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Robert Harrison (UK)
Xinghuo Yu (AU)
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