

ETFA 2025

Porto Portugal

9-12 September

30th IEEE International Conference on Emerging Technologies and Factory Automation

Call for Papers - WS07

Human-Centric IoE Solutions Driving the Transition to Industry 5.0

Organizers and Chairs
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FOCUS The rapid evolution of Industry 4.0 has driven widespread adoption of smart automation, AI-driven systems, and IoT-based solutions in manufacturing. However, the emergence of Industry 5.0 highlights the necessity of reintroducing human intelligence, collaboration, and well-being at the core of industrial operations. This transition requires frameworks that facilitate seamless integration of humans and digital technologies, ensuring ethical, sustainable, and efficient manufacturing practices. The primary focus of this workshop is to explore how IoE-based solutions can enhance productivity, safety, and well-being in Industry 5.0 environments.

TOPICS

- ❖ Introduction to Industry 5.0 and the Role of IoE
- ❖ Human-Centric Automation and AI Integration
- ❖ AI-based solution for self-healing and autonomous IoT
- ❖ Ethical and Sustainable Manufacturing
- ❖ Case Studies and Practical Implementations
- ❖ Interactive Panel Discussion
- ❖ Hands-on Demonstration or Simulation (if applicable)

- ❖ **AIM** The aim of the conference is to bring together the international community to present the latest research results, share new ideas and engineering breakthroughs, and discuss state-of-the-art challenges and future directions in technology and innovation in the broad domain of Automation with a focus on Industrial and Factory Automation.

WORKSHOP FORMAT

Half-day Workshop, based on solicited research papers.

These papers must report significant and innovative research and development results that will have a long-term impact on the field of research, with the potential for implementation. The final manuscripts must comply with the formatting requirements for ETFA 2025, with a page limit of 6-8 pages. The working language of the conference is English. For submission rules, please refer to the Author's Instruction on the conference website.

Accepted, registered, and presented papers will be copyrighted by IEEE and published in the conference proceedings. The proceedings will be available in the IEEE Xplore Digital Library. The final manuscript must be accompanied by a Workshop registration fee payment proof and it is mandatory that at least one author attends and presents the paper at the Workshop. Failure to adhere to these guidelines may result in paper exclusion from post-conference distribution via IEEE Xplore by the ETFA 2025 Organizing Committee.

For any detail regarding registration to the Workshop, please refer to the ETFA 2025 website.

AUTHOR'S SCHEDULE (2025)

- ❖ Solicites Workshop papers

May 30 Submission deadline

June 20 Acceptance notification

July 4 Deadline for final manuscripts

Workshop Program Committee

- ❖ Simone Bianco, University of Milano-Bicocca
- ❖ Jalil Piran, Sejong University, Seoul
- ❖ Matteo Anedda, University of Cagliari
- ❖ Serena Nicolazzo, University of Milan
- ❖ Ionel Eduard Stan, University of Milano-Bicocca
- ❖ Marco Arazzi, University of Pavia
- ❖ Mert Cihangiroglu, University of Pavia
- ❖ Vignesh Kumar Kembu, University of Pavia
- ❖ Claudio Cusano, University of Pavia
- ❖ Tullio Facchinetti, University of Pavia
- ❖ Vinod P., Cochin University
- ❖ Paola Pierleoni, Università Politecnica delle Marche
- ❖ Alex Mircoli, Università Politecnica delle Marche
- ❖ Marco Esposito, Università Politecnica delle Marche
- ❖ Monica Marconi Sciarroni, Università Politecnica delle Marche
- ❖ Stefanos Koffas, Delft University of Technology
- ❖ Marina Krček, Radboud University
- ❖ Gorka Abad, Radboud University
- ❖ Rafidha Rehiman, Cochin University of Science and Technology
- ❖ Dincy Arikkat, Cochin University of Science and Technology
- ❖ Muhammed Shafi K. P., Cochin University of Science and Technology
- ❖ Sameera K. M., Cochin University of Science and Technology