

ETFA 2025

Porto Portugal

9-12 September

30th IEEE International Conference on Emerging Technologies and Factory Automation

Call for Papers - Track 11 Vehicular Embedded Systems

Track chairs

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- ◆ **FOCUS.** The track targets the challenges related to modeling, development, timing analysis, reuse, certification, deployment and execution of embedded systems in contemporary vehicles, as well as in the next generation of automated and connected vehicles.
- ◆ **TOPICS**
 - ◆ Model- and component-based development of vehicular embedded systems
 - ◆ Models and languages for vehicle software development, e.g., EAST-ADL and AUTOSAR
 - ◆ In-vehicle communication protocols, e.g., CAN, CAN/FD, Automotive Ethernet, TSN
 - ◆ Advanced computing platforms for vehicular systems, e.g., multi-core, GPU
 - ◆ Support for timing predictability in vehicular embedded systems
 - ◆ Safety, security and certification (e.g., ISO 26262 and 39003) aspects in vehicular embedded systems
 - ◆ Performance assessment, fault-tolerance and reliability issues in vehicular embedded systems
 - ◆ Autonomous vehicles, advanced driver assistance systems, V2X communications
 - ◆ Blended wired and wireless predictable communication in vehicular embedded systems
 - ◆ Tool support, benchmarking and industrial case studies for vehicular embedded systems
 - ◆ Power/energy management for EVs and autonomous vehicles
- ◆ **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.
- ◆ **CONFERENCE FORMAT.** The conference will comprise multi-track sessions for regular papers, to present significant and novel research results with a prospect for a tangible impact on the research area and potential implementations, as well as work-in-progress (WiP) and industry practice sessions.
- ◆ **AUTHOR'S SCHEDULE (2025)**
 - ◆ **Regular and special sessions papers**
 - Submission deadline April 18
 - Acceptance notification May 23
 - Deadline for final manuscripts July 4
 - ◆ **Work-in-progress/Industry practice papers**
 - Submission deadline May 30
 - Acceptance notification June 20
 - Deadline for final manuscripts July 4

Track Program Committee

- ◆ Petru Eles, Linköping University, Sweden
- ◆ Mikael Sjödin, Mälardalen University, Sweden
- ◆ Julio Medina, Universidad de Cantabria, Spain
- ◆ Sara Afshar, ABB, Sweden
- ◆ Paulo Garcia, Carleton University, Canada
- ◆ Matthias Becker, KTH, Sweden
- ◆ Dakshina Dasari, Robert Bosch, Germany
- ◆ Roberto Cavicchioli, University of Modena and Reggio Emilia, Italy
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- ◆ Alessandro Biondi, Scuola Superiore Sant'Anna di Pisa, Italy
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- ◆ Hossein Fotouhi, Mälardalen University, Sweden
- ◆ Marina Gutierrez Lopez, TTTECH, Austria
- ◆ Adam Kostrzewa, Technical University of Braunschweig, Germany
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- ◆ Elena Lisova, Volvo CE, Sweden
- ◆ Dina Mahmoud, Ecole Polytechnique Federal de Lausanne, Switzerland
- ◆ Claudio Maya, CISTER - Porto, Portugal
- ◆ Mitra Nasri, TU Eindhoven, The Netherlands
- ◆ Alessandro Papadopoulos, Mälardalen University, Sweden
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- ◆ Ramez Daoud, American University in Cairo
- ◆ Mehrdad Saadatmand, RISE SICS, Sweden
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- ◆ Gehad Alkady, American University in Cairo
- ◆ Hassanein Amer, American University in Cairo
- ◆ Nandinbaatar Tsog, NeSTRA, Japan
- ◆ Fady Abouelgheit, American University in Cairo, Egypt
- ◆ Ihab Adly, British University in Egypt, Egypt
- ◆ Luxi Zhao, TU Munich, Germany
- ◆ Zenepe Satka, Mälardalen University, Sweden