ETFA 2025 Porto Portugal 9-12 September

30th IEEE International Conference on Emerging Technologies and Factory Automation

Call for Participation - WS03
Advancing Industrial Automation
Best Practices & Innovations with IEC 61499

Organizers and Chairs

Alois Zoitl – Johannes Kepler University Linz, Austria
Valeriy Vyatkin - Luleå University of Technology & Aalto University, Sweden & Finland
Franco Cavadini - Gr3n, Switzerland
Inna Arkhipova - UniversalAutomation.org, Belgium

FOCUS

IEC 61499 is gaining significant traction in the industry, with organizations like UniversalAutomation.org, Eclipse 4diac™, along with various industrial and academic entities, actively expanding the content and driving discussions around this standard. Building on the success of the 2024 workshop in Padova, we aim to delve deeper into this topic and engage more industry professionals to share their use cases and best practices.

Our goal is to foster interaction between academia and industry, enhancing knowledge exchange on IEC 61499. This workshop will be pivotal in advancing collaboration in this field.

TOPICS

- Introduction of UniversalAutomation.org
- Use of IEC 61499 in Open Process Automation Systems Applications
- Eclipse 4diac™: open-source infrastructure for Research, technology evaluation and standard development
- Effective Engineering Practices for IEC 61499: Bridging Theory and Implementation
- Vendor-Agnostic Commissioning – CloViC
- Combining Event-Based Control with IEC 61499: A novel approach to industrial automation
- Cyberphysical Systems with the IEC 61499 standard: A modular framework for Plug & Produce production
- Enabling Plug & Produce and Low-Code Engineering with IEC 61499 and Schneider Electric's EcoStruxure Automation Expert Platform
- IEC 61499 at Kongsberg Maritime

Workshop Presenters

Bianca Wiesmayr, Johannes Kepler University Linz

Corrine Ralston, Kongsberg Maritime

Greg Boucaud, Universal Automation

Federico Fumagalli, J&W

Hilmo Dzafic, Schneider Electric

Merethe Gotaas, Kongsberg Maritime

Mikhail Kolesnikov, CloViC / Aalto University

Oscal Miguel Escrig, University of Jaume I

Pascal Pesendorfer, Schneider Electric

Pranay JhunJhunwala, Aalto University

- **AIM** The workshop aims to support participants in advancing their understanding and application of IEC 61499, showcasing its applications, methodologies, and future trends through expert-led sessions and interactive discussions. By providing a comprehensive and in-depth exploration of IEC 61499, the workshop seeks to empower participants to take the next step in their automation projects, driving innovation and efficiency in their respective fields.

- **WORKSHOP FORMAT**

Full day Workshop, based on invited presentations.
The day will be divided in modules with presentations and questions and answers.
For any detail regarding registration to the Workshop, please refer to the ETFA 2025 website.