



12-14 June 2024 Cagliari, Italy

6th IFAC International Workshop on Advanced Maintenance Engineering, Services and Technology



CALL FOR PAPERS



amest2024@unica.it

sites.unica.it/amest2024/

Maintenance and Asset Lifecycle Management for Sustainable and Resilient Systems

The 6th IFAC Workshop on Advanced Maintenance Engineering, Services and Technologies (AMEST2024) will bring together international experts from academia and industry to present and debate the latest advances in Maintenance and Asset Lifecycle Management for the transition to **sustainable**, **human-centric** and **resilient** industrial systems, aligned with Industry 5.0 aims. We welcome high-quality contributions that investigate main research challenges, technology developments and business model advancements, as well as case studies and applications of new and emerging perspectives in Maintenance and Asset Lifecycle Management.

The AMEST 2024 is fully supported and sponsored by the **IFAC TC 5.1. Manufacturing Plant Control**. The workshop is co-sponsored by TC 5.2. Management and Control in Manufacturing and Logistics, TC 5.3. Integration and Interoperability of Enterprise Systems (I2ES) and TC 6.4. Fault Detection, Supervision&Safety of Technical Processes - SAFEPROCESS. This workshop is also supported by the International Federation for Information Processing (IFIP), the Prognostics and Health Management (PHM) Society, and the European Safety and Reliability Association (ESRA).

TOPICS

The 6th IFAC AMEST 2024 Workshop is seeking original papers on the following topics (and related areas):

- Industry 4.0 and Industry 5.0 oriented maintenance and asset lifecycle management
- Digital Twins & Cyber-Physical Systems for maintenance and asset lifecycle management
- · Reliability-centred maintenance
- End-of-life management strategies, methods, and tools
- · Assessment of maintenance impacts on sustainability
- Human-centric technologies for maintenance and asset lifecycle management
- Services and business models for maintenance and asset lifecycle management
- Maintenance and asset lifecycle management in highuncertainty environments

IMPORTANT DATES

Early bird & paper registration deadline

30/04/2024

- · Artificial Intelligence for maintenance solutions
- Prognostics and Health Management systems to support sustainable and resilient operations
- · Simulation and optimisation in maintenance
- Deterioration modelling, logistics and maintenance systems
- · Predictive maintenance
- Condition monitoring and condition-based maintenance
- Data and knowledge-driven maintenance and asset lifecycle management
- · Diagnostics of industrial systems
- Integrated maintenance and production systems management

IFAC AMEST WG

The objective of the IFAC Working Group (WG) on Advanced Maintenance Engineering, Services and Technologies (A-MEST) is to create, **share and promote new knowledge in the area of maintenance**. Advances in this area have a significant effect on businesses, fuelling the emergence of new business models. Blending technology, engineering, and management offers the means "to go beyond" established practices and drive the implementation of proactive strategies, focusing not only on maintenance but also on the enterprise strategic goal, taking into account business, technological, environmental and social issues and contributing to growth, quality, safety and sustainability.

Early Regular 30/09/2023 Invited session proposal deadline registration registration 31/01/2024 Draft paper submission deadline 600€ 700€ **Standard** 01/03/2024 Authors notification of acceptance Student 500€ 500€ 31/03/2024 Final paper submission deadline

The registration does already include one contribution (paper) to the workshop.

FEES

PAPER SUBMISSION

The working language of IFAC AMEST2024 is English. The material submitted must be original, not published or being considered elsewhere. Regular papers must be between 4 (minimum) and 6 (maximum) pages in the final version and formatted in the standard two-column IFAC proceedings format. All articles undergo a rigorous reviewing process by anonymous and independent reviewers. Have a look to the authors' quide for more information.

IFAC COPYRIGHT POLICY

All publication material submitted for presentation at an IFAC-sponsored meeting (Congress, Symposium, Conference, Workshop) must be original and hence cannot be already published, nor can it be under review

elsewhere. The authors take responsibility for the material that has been submitted. IFAC-sponsored conferences will abide by the highest standard of ethical behavior in the review process as explained on the Elsevier webpage (https://www.elsevier.com/authors/journal-authors/policies-and-ethics), and the authors will abide by the IFAC publication ethics guidelines (https://www.ifac-control.org/events/organizersguide/ PublicationEthicsGuidelines.pdf/view).

Accepted papers that have been presented at an IFAC meeting will be published in the proceedings of the event using the open-access IFAC-PapersOnLine series hosted on ScienceDirect (https://sciencedirect.com/). To this end, the author(s) must grant exclusive publishing rights to IFAC under a Creative Commons license when they submit the final version of the paper. The copyright belongs to the authors, who have the right to share the paper in the same terms allowed by the end user license, and retain all patent, trademark and other intellectual property rights (including research data).

JOURNALS

All papers presented by registered authors will be recorded as an IFAC Publication (IFAC-PapersOnLine). The presented papers will be further screened for possible publication as extended and revised papers in relevant journals. This follows the established practice from previous IFAC AMEST workshops, where extended and revised versions of presented AMEST papers were invited for publication in the following journals: Engineering Applications of Artificial Intelligence, Neural Computing and Applications, Computers in Industry, Smart Infrastructure and Construction, Reliability Engineering and Systems Safety, Journal of Risk and Reliability.

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