

CALL FOR PAPERS

7th IFAC Workshop on Advanced Maintenance Engineering, Services and Technology (AMEST) & 16th IFAC Workshop on Intelligent Manufacturing Systems (IMS).

The IFAC Joint Workshops AMEST 2027 & IMS 2027 will bring together researchers, practitioners and industry leaders to discuss advances at the intersection of maintenance engineering, asset management, intelligent manufacturing and industrial digitalization.

FROM PREDICTIVE TO INTELLIGENT DECISION-MAKING

IFAC AMEST WORKING GROUP

The mission of the IFAC Working Group on Advanced Maintenance Engineering, Services and Technology (AMEST) is to create, share and promote new knowledge in maintenance. The WG integrates technology, engineering and management to advance proactive maintenance strategies that support business objectives while addressing technological, environmental and social challenges, contributing to growth, quality, safety and sustainability.

IFAC IMS WORKING GROUP

The mission of the IFAC Working Group on Intelligent Manufacturing Systems (IMS) is to investigate and develop novel solutions for manufacturing control systems in the digital era. The WG brings together control and systems engineering, computer science, and industrial and manufacturing engineering to advance complex adaptive and data-driven manufacturing systems, contributing to Smart Manufacturing and the Factory of the Future.

TOPICS OF INTEREST

The workshop is seeking original papers on the following topics (and related areas):

AMEST 2027

- Maintenance strategies, RCM and risk-based maintenance
- Condition monitoring, diagnostics and prognostics
- Predictive and prescriptive maintenance
- Deterioration, degradation and asset health modelling
- AI, machine learning, agentic AI and multi-agent systems
- Digital twins, CPS and IIoT for maintenance
- Maintenance planning, scheduling, simulation and optimization
- Integrated production and maintenance systems
- Asset performance and lifecycle management
- Asset investment planning, LCC, TCO and TOTEX
- Human-centered, sustainable and resilient maintenance
- Maintenance services, servitization and industrial case studies
- Industrial interoperability and knowledge systems for maintenance and Asset Management

IMS 2027

- Intelligent, adaptive and reconfigurable manufacturing systems
- Smart factories, Industry 5.0 and industrial digitalization
- AI, machine learning and intelligent decision support
- Human-centered manufacturing and Human-AI collaboration
- Robotics, autonomous systems and human-robot collaboration
- Agentic and multi-agent production systems
- Digital twins and cyber-physical production systems
- Intelligent production planning, scheduling and control
- Integrated production, maintenance and intelligent quality
- Data-driven manufacturing and industrial analytics
- Interoperability, ontologies and knowledge representation
- Resilient, sustainable manufacturing and industrial case studies
- Manufacturing services, servitization and smart product-service systems

JOINT AMEST-IMS THEMES

Human-centered & trustworthy AI • Agentic & multi-agent AI • Digital twins • Integrated production & maintenance • Industrial interoperability & knowledge systems • Asset & production intelligence • Servitization • Sustainability, circular economy & resilient industrial systems

USEFUL MANUSCRIPT INFORMATION

For WORD template and sample package:
<https://ifac.papercept.net/conferences/support/word.php>
For Manuscript Preparation please look at:
<https://www.ifac-control.org/events/author-guide>
For Manuscript submission please look at
<https://ifac.papercept.net/conferences/scripts/start.pl>

IMPORTANT DATES

Invited Session Proposal Deadline: 7 November 2026
Invited Paper Deadline: 15 December 2026
Contributed & Industry Paper Submission Deadline: 30 November 2026
Notification of acceptance / Final Submission opens: 1 February 2027
Final paper submission: 1 March 2027

Accepted and presented papers will be published in the open-access IFAC-PapersOnLine series on ScienceDirect

IFAC COPYRIGHT CONDITIONS

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/organizers-guide/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).

IFAC SPONSORSHIP AND COMMUNITY

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ORGANISATION

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	Nof, S. Y., USA	Zhao, F., Canada

KEYNOTE SPEAKERS: From academia and industry:

- **Ajith Kumar Parlikad** • University of Cambridge, UK
- **Anders Skoogh** • Chalmers University of Technology, Sweden
- **Rosa María Nieto** • Enagas, Spain
- **Gonzalo Santamaría Freire** • ISDEFE (Defence & Logistic Critical Systems), Spain

JOINT INDUSTRY & ACADEMIA PANEL

AI for Intelligent Industrial Systems: From Human-Centered Decision Support to Agentic AI

REGISTRATION PRICES:

info@amest-ims-2027.es

EARLY REGISTRATION Until 10 February 2027	
Registration category	Fee (VAT included)
Regular	600,00 €
Regular – IFAC Affiliate	590,00 €
Student	500,00 €
Student – IFAC Affiliate	490,00 €

NORMAL REGISTRATION Until 7 April 2027	
Registration category	Fee (VAT included)
Regular	700,00 €
Regular – IFAC Affiliate	690,00 €
Student	500,00 €
Student – IFAC Affiliate	490,00 €

VENUE: Hotel Ribera de Triana

