

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
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

The AMEST/IMS 2027 joint workshop is fully supported and sponsored by the IFAC Technical Committee TC 5.1 Manufacturing Plant Control. The workshop is co-sponsored by the following IFAC Technical Committees: TC 3.2, 4.1, 4.2, 4.3, 5.2, 5.3, 5.4, 6.4 and 9.2. This workshop is also supported by the International Federation for Information Processing (IFIP) WG 5.7, the European Safety Reliability & Data Association (ESReDa - Project DMAD) and the Digest Project (Spain).

ORGANISATION

NOC Chair: Adolfo Crespo Márquez • University of Seville

IPC Chair: Marco Macchi • Politecnico di Milano

NOC Co-Chair: Antonio Sánchez Herguedas • University of Seville

IPC Co-Chair: Christos Emmanouilidis • University of Groningen

IFAC Conference Board Liaison: Xiaofan Wang • Shanghai Institute of Technology

IPC MEMBERS

Almeida, N., Portugal	Gładysz, B., Poland	Ordieres-Meré, J., Spain
Andrews, J., UK	González-Prida, V., Spain	Ortega Mier, M., Spain
Ansari, F., Austria	Guelton, K., France	Ortiz, P., Spain
Apple, S., Germany	Guevara, F. J., Colombia	Papadopoulos, Y., UK
Arena, S., Italy	Guillén, A. J., Spain	Parlikad, A. K., UK
Banaszak, Z., Poland	Haber, R., Spain	Patalas-Maliszewska, J., Poland
Barari, A., Canada	Hohmann, S., Germany	Pereira, C. E., Brazil
Barata, J., Portugal	Iung, B., France	Pérès, F., France
Batchkova, I., Bulgaria	Kemmetmüller, W., Austria	Pirola, F., Italy
Bérengruer, C., France	Kong, K., South Korea	Polenghi, A., Italy
Bocewicz, G., Poland	Kristjanpoller, F., Chile	Roda, I., Italy
Bokrantz, J., Sweden	Kusiak, A., USA	Romero, D., Mexico
Bousdekis, A., Greece	Lee, J., USA	Ruppert, I., Hungary
Bril El Haouzi, H., France	Legat, C., Germany	Sala, R., Italy
Cardin, O., France	Leitão, P., Portugal	Schattke, L., Germany
Carnero, C., Spain	Levrat, E., France	Scrimieri, D., UK
Cavalieri, S., Italy	Liyanage, J. P., Norway	Serra, J., Spain
Chen, L., China	Makris, S., Greece	Sgarbossa, F., Norway
Cholette, M., Australia	Marcos, J. A., Spain	Shariff, S., Saudi Arabia
Cohen, Y., Israel	Martha de Souza, G. F., Brazil	Skoogh, A., Sweden
Dolgui, A., France	Maté, D., Spain	Smirnov, A., Russia
Ejsmont, K., Poland	Mateos, E., Spain	Steinboeck, A., Austria
Erráez, M. C. C., Ecuador	McFarlane, D., UK	Szpytko, J., Poland
Faccio, M., Italy	Monostori, L., Hungary	Tsao, T.-C., USA
Fernández-Arenas, C., Spain	Mossa, G., Italy	Tsuzuki, T., Brazil
Franciosi, C., France	Negri, E., Italy	Voisin, A., France
Gallego, R., Spain	Netto, M., France	Wang, X., China
Gaspar, D., Portugal	Nitulescu, M., Romania	Yao, X., China
	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 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	
	SAVE €100 ON REGULAR FEE
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

