

Maintenance in the Digital Era

AMEST2020 | 10-11 SEP | CAMBRIDGE UK

www.amest2020.eng.cam.ac.uk

CALL FOR PAPERS

We are living in a digital era. It is evident that the practice of maintenance and asset management has the potential to be one of the biggest beneficiaries of this digital revolution. Technologies and concepts such as Industrial Internet of Things, Cyber Physical Systems and Digital Twins are now seen as major opportunities for companies in the manufacturing and infrastructure sectors to improve their products, processes and services.

The objective of the 4th IFAC AMEST'20 Workshop is to bring together experts from academia and industry to discuss the latest advances in digital technologies and their impact on reliability, maintenance and asset management. The workshop will cover a broad range of research and application topics exploring the role of data-driven maintenance and asset management within the domains of manufacturing and infrastructure.

This workshop is sponsored by IFAC TC 5.1 and is co-sponsored by TC 5.2, 5.3 and 6.4. The 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 4th IFAC AMEST'20 Workshop is seeking original papers on topics including the following (and related areas):

- **Deterioration Modelling**
- **Maintenance Strategies**
- **Condition Monitoring**
- **Low Cost Monitoring Approaches**
- **Diagnostics and Prognostics**
- **Condition-based Maintenance**
- **Predictive Maintenance**
- **Digital Twins for Asset Management**
- **Asset Lifecycle Management**
- **Integrated Maintenance and Production Systems**
- **Logistics and Maintenance Systems**
- **Simulation and Optimisation in Maintenance**
- **AI in Maintenance**
- **Industrial Internet of Things**
- **Cyber-Physical Systems**
- **Business Models for Maintenance Services**

We also invite proposals for invited sessions aligned to the above topics. Please see the separate call for invited session proposals for more details.

IMPORTANT DATES



Sep 19: Call for Papers

15 Dec 19: Invited session proposals

15 Jan 20: Paper submission

15 Mar 20: Author notification

10 May 20: Final paper submission

09 Jun 20: Early bird registration

10-11 Sept 20: Workshop

IFAC WG AMEST

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.

CONFERENCE FEES

A separate registration (regular or student) is required for each accepted paper to be included in the conference proceedings.

	Earlybird fee	Regular fee
Standard	£450.00	£550.00
Student	£350.00	£450.00

ORGANISING COMMITTEE

Chair: Dr Ajith Parlikad, University of Cambridge
Co-chair: Dr Christos Emmanouilidis, Cranfield University
Industry vice-chair: Mr Anthony Latimer, Siemens

INTERNATIONAL PROGRAM COMMITTEE

Chair: Prof. Benoit lung, Universite de Lorraine
Co-chair: Prof. Marco Macchi, Politecnico di Milano

K.H. Adjallah, France	J.P. Liyanage, Norway
D. Ait-Kadi, Canada	M. Macchi, Italy
B. Al-Najjar, Sweden	E.S. Madsen, Denmark
J. Andrews, UK	S.Martorell Alsina, Spain
A. Arata, Chile	K. Medjaher, France
A. Arnaiz, Spain	G. Mentzas, Greece
J. Barata, Portugal	D. McFarlane, UK
C. Berenguer, France	G. Mossa, Italy
C. Carnero, Spain	Y. Papadopoulos, UK
S. Cavalieri, Italy	T. Parisini, UK
D. Coit, USA	A. Parlikad, UK
A. Chelbi, Tunisia	F. Peres, France
A. Crespo-Marquez, Spain	C. Pereira, Brazil
P. Dehombreux, Belgium	H. Pham, USA
P. Dersin, France	L. Pintelon, Belgium
D. Djurdjanovic, USA	J. Quevedo Spain
I. Durazo-Cardenas, UK	A. Regattieri, Italy
C. Emmanouilidis, UK	I. Roda, Italy
F. X. Ferragud, Spain	D. Romero, Mexico
B.J. Galvan Gonzales, Spain	R. Roy, UK
K. Hribernik, Germany	P. Schjolberg, Norway
B. lung, France	F. Sgarbossa, Norway
D. Ivanov, Germany	Z. Simeu-Abazi, France
M. Jafari, USA	A. Skoogh, Sweden
I. Jennions, UK	A. Starr, UK
H.B. Jun, Korea	J. Szpytko, Poland
D. Kiritsis, Switzerland	S. Takata, Japan
M. Khan, UK	A. Tchangani, France
F. Kristjanpoller, Chile	B.V. Tormos Martinez, Spain
U. Kumar, Sweden	N. Trapani, Italy
M. Kulkarni, India	M. Tucci, Italy
B.K. Lad, India	E. Viles, Spain
J. Lee, USA	J-G. Weichhart, Austria
J.B Léger, France	M. Xie, Hong Kong
E. Levrat, France	Y. Zhao, UK
Q. Li, China	

PAPER SUBMISSION

The working language of IFAC A-MEST'20 is English. The material submitted must be original, not published or being considered elsewhere. The papers are limited to 6 pages formatted in the standard two-column IFAC proceedings format. All articles undergo a rigorous reviewing process by anonymous and independent reviewers.

**SUBMIT A
PAPER**

**AUTHOR
GUIDE**

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/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 confer the copyright to IFAC when they submit the final version of the paper through the paper submission process. The author(s) retain the right to use a copy of the paper for personal use, internal institutional use at the author(s)' institution, or scholarly posting at an open web site operated by the author(s) or their institution, limited to noncommercial use. Any other use of the paper requires approval by IFAC.

JOURNALS

The presented papers will be further screened for possible publication in the following journals: Computers in Industry, Control Engineering Practice, Engineering Applications of Artificial Intelligence, Annual Reviews in Control. All papers presented by registered authors will be recorded as an IFAC Publication.

