The 7th Forum of Manufacturing Paradigm Ⅲ (FMP3)

Jointly with **The 7th AET Summit on ACSM and Digital Manufacturing**

28 Sep – 30 Sep 2027 | **The University of Osaka, Osaka, Japan**

Summit Chair

- Prof. Kazuya Yamamura, The University of Osaka, Japan

Scientific Committee

- Prof. Kornel Ehmann, Northeastern University, USA
- Prof. Enrico Savio, University of Padua, Italy
- Prof. Wei Gao, Tohoku University, Japan
- Prof. Fengzhou Fang, University College Dublin, Ireland
- Prof. Lihui Wang, Hong Kong Polytechnic University, China
- Prof. József Váncza, Institute for Computer Science and Control, Hungary
- Prof. Shuming Yang, Xi'an Jiaotong University, China
- Prof. Xiaokang Liu, Chongqing University of Technology, China
- Prof. Nabil Anwer, Paris-Saclay University, France
- Prof. Xichun Luo, University of Strathclyde, UK
- Prof. Yuki Shimizu, Hokkaido University, Japan
- Dr. Christian Wenzel, Innolite GmbH, Germany

Organisers

- The International Academy of Engineering and Technology (AET)
- International Society for NanoManufacturing (ISNM)
- Research Center for Precision Engineering, The University of Osaka

CALL FOR PAPERS

Atomic and close-to-atomic scale manufacturing (ACSM) aims to realize cost-effective, deterministic, and scalable manufacturing of next-generation products with atomic-level precision by addressing quantum uncertainty in atomic-level material manipulation (removal, migration, and addition). It is the fundamental technology for opening a new manufacturing paradigm "Manufacturing Ⅲ". There is significant frontier and ongoing research in this area. Meanwhile, around of industrial digital revolution is being nurtured worldwide, thanks to breakthroughs in emerging Industry 4.0 technologies. It is our great pleasure to invite you to the 7th AET International Summit on ACSM and Digital Manufacturing (AETS2027), and the 7th Forum of Manufacturing Paradigm Ⅲ (FMP3).

Aims

The aim of the summit is to provide one of the leading international forums for scientists, engineers, scholars and students to exchange latest developments, research findings and visions in the fields of ACSM and digital manufacturing. It also aims to provide a platform to foster R&D collaborations amongst academia, research institutions, and industries where joint research programmes can be formulated for mutual benefits.

*The International Academy of Engineering and Technology (AET, https://www.aet-ac.org) is an independent non-profit international institution to provide leadership in future engineering and technology and to promote international collaboration between academia and industry.
**International Society for NanoManufacturing (ISNM, https://www.isnm.org/) provides an effective platform for communication and networking among members of academia and industry from all over the world. Members are able to effectively exchange new ideas, discoveries and latest achievements from their areas of expertise.

CONFERENCE WEBSITE
https://www.aet-ac.org/
https://www.isnm.org/

CONTACT E-MAIL
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Topics

- Manufacturing Paradigm Ⅲ
- Atomic and Close-to-atomic Scale Manufacturing
- Micro & Nano Manufacturing Technologies & Applications
- Precision Replication & Additive Techniques
- Ultraprecision Machining Technologies at Micro/Nano/Atomic Scales
- Assembly & Handling in the Micro and Nano Regime
- Metrology & Quality Control for Micro and Precision Parts and Nano/close-to-atomic Features
- Precision Measurement, Characterisation and Instrumentation
- Digital Technologies for Precision Manufacturing

Submission

Abstract template and submission weblink are available on conference website.

Publication

All the accepted abstracts will be included in the conference proceedings. Authors of selected abstracts will be invited to submit full articles to Nanomanufacturing and Metrology (Springer).

Key Dates

- Delegate registration opens: **1 April 2027**
- Submission of abstract: **1 May 2027**
- Notification of acceptance: **20 May 2027**



The AET's annual general assembly and summit provide one of the leading international forums for scientists, engineers, scholars and students to exchange latest developments, research findings and visions in future engineering and technology.
ISNM hopes to promote the development of new technologies and innovations in all aspects of nanomanufacturing by encouraging the dissemination of knowledge through internal seminars and conferences.

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