

Special Interest Conference:

Micro/Nano Manufacturing & 6th AET Symposium on ACSM and Digital **Manufacturing**

17th - 19th September 2025

Université Paris-Saclay, Paris-Saclay, France





atomic-scale precision by addressing the digital nature of matters, i.e., an Lithography-based technology forms the basis of micro-electro-mechanical systems (MEMS) manufacturing, and ultra-high precision manufacturing technologies have also been developed to cover micro-, nano- and atomic-scale dimensions and accuracies. These fundamentally different technologies are combined to exploit their strengths in advanced micronano-manufacturing process chains. An example can be found in the use of lithography-based technologies to establish nanostructures subsequently transferred to 2½D/3D geometries via micro moulding or thermal imprinting, or in micro-scale additive manufacturing processes combined with precision subtractive finishing. Micro manufacturing processes are the key enabling technologies to bridge the gap between the nano- and the macro-worlds, and to integrate different dimensional scales into mass-manufacturing processes, to integrate different dimensional scales into mass-manufacturing processes, while digital technologies enable data exchange for process chain integration across the different scales. Accordingly, the Special Interest Conference on Micro/Nano Manufacturing in combination with the International Academy of Engineering and Technology Symposium on ACSM and Digital Manufacturing (AET) will focus on novel methodological developments in micro-, nano-, atomic-scale and digital manufacturing, i.e., on novel process chains including process optimisation, quality assurance approaches, metrology, process chain integration. The workshop will host keynotes and several presentations and posters covering the latest developments and research on these increasingly aspects of micro/nano manufacturing in practice.

Topics

- Atomic and Close-to-atomic Scale Manufacturing
- Micro & Nano Manufacturing Technologies & Applications

- 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

Key dates

1 st May 2025	Delegate Registration Opens
12 th May 2025	Short Abstract Submission Deadline
20 th May 2025	Notification of Presentation Award (Oral/Poster)

Please visit our website for further information.

www.euspen.eu