



european society for precision engineering and nanotechnology

Special Interest Conference

Precision Motion Systems & Control

17th-18th November 2026

Brabanthallen's-Hertogenbosch,
The Netherlands

Precision motion systems and their control remain fundamental to modern precision engineering, underpinning both advanced manufacturing processes and high-performance measurement instrumentation. From single-axis positioning stages to complex multi-axis platforms, precision applications rely on highly integrated solutions for guidance, actuation, metrology, and motion control.

As demands for greater throughput, accuracy, and dynamic performance continue to increase, next-generation manufacturing and measurement systems are driving new challenges in motion system design and position control. These challenges are accelerating research and innovation across precision motion components, system architectures, and advanced control methodologies.

This continuing international forum brings together leading experts from industry, academia, and the scientific instrumentation community to present and discuss the latest advances in precision motion technologies, systems, and control. Through focused technical presentations and open discussion, the conference provides a platform for the exchange of emerging ideas, research developments, and engineering solutions shaping the future of precision motion engineering.

- High dynamic positioning systems
- Kinematic motion errors characterization and modelling
- Linear and angular actuators
- Linear and angular position measurement systems
- Mechatronic system architecture
- Motion controllers and drive amplifiers
- Modelling and analysis of high performance mechatronics designs
- Multi-axis positioning systems
- New approaches in control algorithms
- Precision guide components and systems
- Robotic systems
- System identification, testing and trouble-shooting
- Vibration isolation and active damping systems

Key dates

6 th Sept 2026	Online abstract submission deadline
30 th Sept 2026	Notification of presentation award to authors (oral/poster)
2 nd Oct 2026	Programme available online
31 st Oct 2026	Late abstract submission for posters only deadline

*Topics are nominal at time of printing. Please check our website for up-to-date information.
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