The Organizing Committee is delighted to announce the IEEE International Conference on Advanced Motion Control (AMC) 2026, to be held from March 9 to 11, 2026 in Daegu, South Korea. AMC 2026 will bring together experts, researchers, and practitioners from academia and industry to share the latest findings and state-of-the-art advancements in motion control technologies and applications.

Conference Focus

In line with the tradition of AMC, the 2026 conference will emphasize cutting-edge research and development in advanced motion control. Particular attention will be given to

- **Data-Driven Control Design**
  From system identification to deep reinforcement learning, highlighting data-centric approaches to optimize performance.
- **High-Precision and Ultra-Fast Motion Systems**
  Control methodologies and implementations in precision engineering, semiconductor manufacturing, and other demanding applications.
- **Robotics and Automation Applications**
  Emerging trends in control of mobile robots, collaborative robots (cobots), service robots, and robotic manipulation systems.
- **Vehicle and Mobility Control**
  Automated driving, electric vehicle control, flight control, and advanced driver-assistance systems (ADAS).
- **Machine Learning and AI in Motion Control**
  Methods and frameworks for intelligent control in robotics, autonomous vehicles, and industrial automation.
- **Integration of Mechatronics and Control**
  Interdisciplinary approaches to advanced actuator designs, sensor fusion, and embedded control architectures.

Topics of Interest

Contributions on a broad range of motion-control-related topics are welcome, including but not limited to

- Intelligent/adaptive control strategies
- Nonlinear, robust, and optimal control techniques
- Control of biomedical, surgical, and rehabilitation devices
- Novel actuators, sensors, and energy-efficient systems
- Network-based control and IoT applications
- Modeling, simulation, and hardware-in-the-loop testing
- Human-in-the-loop motion control systems
- Micro-/nano-mechatronics and micro-actuators
- Safety, reliability, and fault-tolerant control
- Novel applications in aerospace, robotics, manufacturing, and beyond

Organizing Committee

- **General Chairs**
  Prof. Sehoon Oh (DGIST, Korea)
  Prof. Hiroshi Fujimoto (The University of Tokyo, Japan)

- **Program Chairs**
  Prof. Michael Ruderman (University of Agder, Norway)
  Prof. Naoki Motoi (Kobe University, Japan)
  Prof. Alexey Pavlov (Norwegian University of Science and Technology, Norway)

- Other committee members will be announced soon.

Submission Guidelines

Authors are invited to submit full-length original research papers that have not been previously published or under review elsewhere. Submissions will be peer-reviewed for technical soundness, originality, and relevance. Accepted papers will appear in the conference proceedings and be submitted for inclusion in IEEE Xplore.
Detailed instructions regarding paper formatting, templates, and the submission process will be provided on the official AMC 2026 website.

Important Dates

- **Special Session Proposal Deadline** — **To be announced**
- **Full Paper Submission Deadline** — **To be announced**
- **Notification of Acceptance** — **To be announced**
- **Camera-Ready Manuscript Deadline** — **To be announced**
- **Conference Dates** — **March 9–11, 2026**

Venue and Location

Suseong Hotel, Daegu, South Korea

Daegu is one of the major cities in South Korea, known for its vibrant cultural heritage, thriving technology industry, and proximity to beautiful mountain landscapes-making it a perfect backdrop for innovative discussions in advanced motion control.
Suseong Hotel is a premier lakeside hotel situated in the scenic Suseong Lake area of Daegu. Renowned for its modern facilities, welcoming atmosphere, and convenient transportation links, it offers an excellent setting for both professional and social interactions. From the hotel, guests can easily explore Daegu's cultural highlights, experience local cuisine, and enjoy a relaxing walk around Suseong Lake.

Contact Information

For further information, please visit the conference website

Website

We warmly invite you to submit your latest research to AMC 2026 and look forward to welcoming you to Daegu, South Korea! **AMC 2026 Organizing Committee**