



FIRST IEEE INTERNATIONAL CONFERENCE ON SUMMET2027 SUSTAINABLE MANUFACTURING AND MECHANICAL TECHNOLOGY



IEEE INTERNATIONAL CONFERENCE ON SUSTAINABLE MANUFACTURING AND MECHANICAL TECHNOLOGY(SUMMET2027)

"Innovating Manufacturing for a Sustainable and Inclusive Future"

7 - 8 May 2027 | PARKROYAL Penang Resort, Penang Island, Malaysia

SUMMET 2027 will bring together researchers, engineers, industry professionals, policymakers, and academics from around the world to exchange ideas, present the latest research findings, and discuss emerging challenges and opportunities in sustainable manufacturing, advanced mechanical technologies, and their societal impact. The conference aims to foster interdisciplinary collaboration between academia, industry, and government while promoting responsible technological innovation that contributes to a more sustainable, resilient, and inclusive future. **NOTE:** This is a hybrid conference. Local presenters are required to present onsite, while international presenters may choose either physical or virtual presentation.

TECHNICAL TRACKS

Track 1: Sustainable Manufacturing Systems

Smart Manufacturing, Sustainable and Lean Manufacturing, Circular Manufacturing, Zero-Waste Manufacturing, Resource and Energy Efficiency, Green Manufacturing Technologies.

Track 2: Digital Manufacturing Technologies

Digital Manufacturing, Digital Twin Technologies, Virtual Manufacturing, Smart Factory Systems, Cyber-Physical Production Systems, Industrial Internet of Things (IIoT), Cloud Manufacturing, Manufacturing Execution Systems (MES), Human-Centric Manufacturing, Digital Transformation in Manufacturing.

Track 3: Advanced Manufacturing Processes and Technologies

Additive Manufacturing, Advanced Machining, Precision Manufacturing, Laser Processing, Smart Materials Processing, Micro- and Nano-Manufacturing, Surface Engineering, Joining and Welding Technologies, Hybrid Manufacturing, Sustainable Manufacturing Processes.

Track 4: Computational Engineering, Modelling and Simulation

Mechanical and Manufacturing System Modelling, Manufacturing Process Modelling, Finite Element Analysis (FEA), Computational Fluid Dynamics (CFD), Structural and Thermal Analysis, Multiphysics Modelling and Simulation, Computational Materials Engineering, Virtual Prototyping, Simulation-Based Design and Optimisation, Engineering Simulation for Manufacturing Systems.

Track 5: Intelligent Manufacturing Systems and Robotics

Artificial Intelligence for Manufacturing, Machine Learning Applications in Manufacturing, Autonomous Manufacturing Systems, Industrial Robotics, Collaborative Robots (Cobots), Machine Vision for Manufacturing, Predictive Maintenance, Intelligent Inspection Systems, Flexible Manufacturing Systems, Robotic Manufacturing Applications.

Track 6: Mechanical Design and Engineering Innovation

Machine Design, Product Design and Development, Design for Manufacturing and Assembly (DFMA), Reverse Engineering, Mechatronic Systems, Tribology, Engineering Optimisation, Smart Mechanical Systems, Sustainable Product Design, Engineering Design Innovation.

Track 7: Technology, Society & Sustainable Dev. (IEEE SSIT Signature Track)

Engineering Ethics for Intelligent Manufacturing Systems, Digital Technologies for ESG and Sustainable Manufacturing, Digital Technologies for Sustainable Development Goals (SDGs), Digital Technologies for Climate Change Mitigation, Social Impacts of Emerging Manufacturing Technologies, Responsible AI in Trustworthy Intelligent Manufacturing, Future Manufacturing Workforce and Digital Skills.

CALL FOR PAPERS & GUIDELINES

Work in progress, research papers, survey papers, application and theoretical papers, poster presentations and position papers for the workshop are all welcome. Authors are invited to submit original research contributions or case studies not published or under review elsewhere.

Formatting: Full papers, with a maximum length of **six pages** (including figures, tables, and references), adhering to the IEEE conference paper formatting should be submitted using a separate submission link available on the website along with paper and presentation template.

Review & Publication: Submissions will undergo a rigorous double-blind peer-review process. Accepted and presented papers will be included in the conference proceedings and submitted for possible inclusion in **IEEE Xplore® Digital Library**, subject to IEEE quality standards.

Important Dates

- **Paper Submission Deadline:** 30 December 2026
- **Notification of Acceptance:** 30 January 2027
- **Registration and Camera Ready:** 30 March 2027
- **Conference Dates:** 7 and 8 May 2027

ORGANIZING COMMITTEE

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CONFERENCE FEES

Participant	Local (Face to Face) RM		International (Virtual) USD		Intl. (Face to Face) USD	
	IEEE Member	Non-Member	IEEE Member	Non-Member	IEEE Member	Non-Member
Student Registration	1050	1250	250	300	350	400
Normal Registration	1500	1600	350	400	450	500
Attendee	350	350	50	50	100	100

