1ST IEEE INTERNATIONAL CONFERENCE ON INSTRUMENTATION
(INSTCon 2026)

IEEE INSTRUMENTATION & MEASUREMENT SOCIETY ROURKELA CHAPTER

IEEE ROURKELA SUBSECTION

IEEE Women in Engineering WiE KOLKATA SECTION-ROURKELA SUBSECTION JOINT AFFINITY GROUP

IEEE KOLKATA SECTION

IEEE INSTCON 2026 PT 01

IEEE IMS ROURKELA CHAPTER

Conference Record No. 69741

Date: July 24 - 25, 2026
Place: NIT Rourkela, Odisha, INDIA

Important Dates

Paper Submission Open:
December 15, 2025
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Paper Submission Close:
March 31, 2026
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Notification of Acceptance:
May 15, 2026
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Camera Ready Submission:
May 31, 2026

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The First International Conference on Instrumentation (**INSTCon 2026**) aims to bring together researchers, industry practitioners, and innovators from around the world to advance the frontiers of measurement, sensing, control, and automation for a sustainable future. With rapid advancements in smart sensing, intelligent control, and data-drivendecision-making, the conference provides a vibrant platform to exchange ideas, showcase cutting-edge developments, and explore solutions that bridge science, engineering, and societal needs.

Technically sponsored by the IEEE Instrumentation & Measurement Society - Rourkela Chapter, IEEE Rourkela Subsection, IEEE Kolkata Section and IEEE WiE Kolkata Section - Rourkela Subsection Joint Affinity Group aims to will foster collaboration across domains such as precision agriculture, healthcare diagnostics, industrial automation, environmental monitoring, and renewable energy systems. By integrating innovations in AI/ML, quantum devices, cyber-physical security, and sustainable hardware design, the event will not only be a showcase of technical excellence but a call to action-uniting academia, industry, and policy stakeholders to drive the adoption of intelligent instrumentation as a cornerstone of global sustainability initiatives.

TOPICS FOR INSTCon 2026 INCLUDE

Track 1:
Smart Sensors and Intelligent Instrumentation
Smart Sensors, Sensor Fusion, Optical Sensors, AI/ML for Intelligent Measurements, Sensor Design, etc.

Track 2:
Sustainable IoT and Communication Technologies
Wireless, RFID, IoT-Enabled Instrumentation, Smart Agriculture, Cyber-Physical Security, etc.

Track 3:
Advances in Intelligent Control, Robotics, and Mechatronics
Intelligent Control, Adaptive Systems, Cyber-Physical Systems, Robotics, Industrial Automation, etc.

Track 4:
Innovations in Microelectronics, Circuits, and Devices
Quantum Sensors, Emerging Devices, MEMS, NEMS, Electronics for Biomedical Devices, etc.

Track 5:
Sustainable Technologies for Electrical Systems
Smart Grids, Renewable Energy, Electric Vehicle, Sustainable Hardware-Software Co-Design, etc.

Track 6:
Applied Signal and Image Processing
Diagnostics and Personalized Healthcare, AI/ML, Explainable AI, Multimodal Fusion, Feature Extraction, etc.

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