MAIQS 2025
International Conference on Measurement, AI, Quality and Sustainability
– Innovating for Smart and Sustainable Industries and Societies

26–28 August 2025, London, UK   www.maiqs2025.org

CALL FOR PAPERS

The International Conference on Measurement, AI, Quality and Sustainability (MAIQS) is a premier conference series dedicated to advancing science and technology in these interconnected fields, addressing important industrial and societal challenges of the 21st century. MAIQS 2025 conference will bring together leading scholars, researchers and industry experts from around the world to discuss and share their latest insights and innovations in the field of measurement, AI, quality and sustainability. Working together, we endeavour to drive smarter and more sustainable solutions for industries and societies worldwide, contributing to a better future for all.

Prospective authors are invited to submit a full paper (4-6 A4 pages) to the conference. The conference proceedings will be published by EDP Sciences in *MATEC Web of Conferences*. Selected papers will also have the opportunity to be extended and submitted to a relevant EI/SCI indexed journal.

TOPICS FOR MAIQS 2025 INCLUDE

Measurement:
- Calibration, Standards and Traceability
- Measurement Theory, Errors and Uncertainty
- Advanced Sensors and Instrumentation
- Signal Processing, Data Analytics and AI for Measurement
- Metrology for Industry 4.0, IoT and Digital Twins
- Digital Transformation of Measurement Systems

Artificial Intelligence:
- Machine Learning and Deep Leaning
- Embodied AI, Robotics and Autonomous Systems, Collaborative Robots, Mobile Robots, Humanoid Robots
- Natural Language Processing (NLP) and Large Language Models (LLMs)
- Explainable and Ethical AI, and AI Standardisation
- AI for Smart, Quality and Sustainable Systems
- Advanced Machine Intelligence (AMI), Artificial General Intelligence (AGI), and Future AI Directions

Quality:
- QFD, Inclusive Design, Robust Design, TRIZ and Innovations
- Statistical Process Control, Six Sigma and Lean Six Sigma
- Inspection, Testing, Product Verifications and Conformity
- Safety, Reliability and Risk Management
- NDT/NDE, Maintenance and Asset Management
- Quality Management Systems, TQM, Operational Excellence, Social Responsibility and Quality 4.0

Sustainability:
- Sustainable Technologies and Innovations for Industries
- Energy-Efficient Systems and Processes
- Life Cycle Assessment (LCA) and Sustainable Supply Chains
- Circular Economy and Resource Management
- Net Zero Pathways and Environmental, Social and Governance (ESG) Implementations
- Tipping Points, Climate Change and Sustainability

Cross-disciplinary:
- HCI, Human-AI Collaboration in Smart Systems, AR/VR/MR, Digital Human and Spatial Intelligence
- Multimodal Information System and Multimodal AI
- Industrial Networks and Future Communication Technologies
- Additive Manufacturing, Digital Manufacturing and Industry 4.0
- MAIQS in Engineering, Aerospace and Supply Chains
- MAIQS in Health, Food, Agriculture, Education and Government Institutions
- MAIQS in Transportations, Built Environment and Smart Cities
- MAIQS in Energy, Oil and Gas Industry, Natural and Extreme Environments

IMPORTANT DATES

- ~~15th April~~ **15th May 2025**: Full Paper Submission
- **30th May 2025**: Paper Acceptance Notification
- **15th June 2025**: Final Paper Submission
- **15th July 2025**: Early Bird Registration
- **18th August 2025**: Final Registration

Please visit the conference website for more information.

https://maiqs2025.org   contact@maiqs2025.org

SPECIAL SESSIONS

Special Session papers will benefit from an extended submission deadline of <u>30 May 2025</u>.

SS1:Artificial Intelligence in Measurement and Instrumentation
- QingPing YANG, Brunel University of London, UK
- Xiangjun WANG, Tianjin University, China
- Priyanka BHARTI, National Physical Laboratory, UK

SS2:Robotics and Smart Inspection
- Binrui WANG, China Jiliang University, China
- QingPing YANG, Brunel University of London, UK

SS3:Artificial Intelligence for NDT
- Mark SUTCLIFFE, TWI, UK
- Channa NAGESWARAN, TWI, UK
- Qiang WANG, China Jiliang University, China

SS4:Industrial Measurement & Control Networks and Systems
- Wenyi LIU, North University of China
- Nila NILAVALAN, Brunel University of London, UK

SS5:Digital Twins and Applications
- Hongying MENG, Brunel University of London, UK
- Qiang YANG, Zhejiang University, China

SS6:Innovations in Robot Mechanism Design, Sensors, and Control for Robotic Systems
- Yohan NOH, Brunel University of London, UK

SS7:Intelligent Quality Management
- Changjing SUN, China Jiliang University, China
- Decheng WEN, Shandong University, China
- Juan ZHOU, China Jiliang University, China

SS8:Artificial Intelligence in Societies
- Fang WANG, Brunel University of London, UK
- Qiwei CHEN, Brunel University of London, UK
- Chenyang ZHU, Changzhou University, China
- Jun XIAO, Shanghai Open University, China

SS9:Systems Reliability, Prognostics & Health Management
- Abdérafi CHARKI, Université d'Angers, France
- Nizar CHATTI, Université d'Angers, France

SS10:Tipping Points in Complex Systems
- Valerie LIVINA, National Physical Laboratory (NPL), UK
- Ivan SUDAKOW, Open University, UK
- Lee STOKES, MACE Group, UK

SS11:Advancing Sustainable Production: Innovations, Challenges and Future Directions
- Valentina STOJCESKA, Brunel University of London, UK

SS12:Advanced Manufacturing Technologies
- Josh BARRAS, TWI, UK
- Jhonattan GUTJAHR, TWI, UK
- Tianjian LI, University of Shanghai for Science and Technology, China
- QingPing YANG, Brunel University of London, UK

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