

ICE·2025

Call for Papers

IEEE 31st International Conference on Engineering,
Technology and Innovation

AI-driven Industrial Transformation: Digital Leadership in
Technology, Engineering, Innovation & Entrepreneurship

June 16th - 19th, 2025

Universitat Politècnica de València, Valencia, Spain 



SCOPE

ICE IEEE/ITMC is the International Conference on Engineering, Technology, and Innovation, part of the IEEE Technology and Engineering Management Society (TEMS). It developed from an early focus on the engineering approach of concurrent engineering to the general organisation of the engineering process and its organization within the corporation and in networks. The ICE conference, therefore, discusses systems engineering as a socio-technical task focusing on the design of products and services, and the entrepreneurial innovation process, and adoptions of digital technologies and methods supporting the process of organizational digital transformation in society and the economy. By integrating academic research with industry perspectives, the ICE IEEE/ITMC offers participants the opportunity to explore the latest trends in engineering and digital transformation management, discuss best practices, and engage in forward-thinking discussions on the role of technology in shaping the future. ICE IEEE/ITMC continues to broaden its scope, addressing the convergence of emerging technologies such as AI, IoT, and blockchain with engineering and management practices, while also exploring their implications for sustainable development, ethical decision-making, and societal impact. Attendees are encouraged to engage in workshops, panel discussions, and networking sessions that foster collaboration across disciplines and regions. Through these interactions, the conference not only advances theoretical knowledge but also provides actionable insights that can be applied to real-world challenges in business and policy-making. As industries and academia increasingly face complex and dynamic environments, the ICE IEEE/ITMC remains committed to evolving alongside these changes. It focuses on bridging the gap between technological advancement and effective management strategies, ensuring that innovation is not only technically sound but also strategically aligned with societal goals. This comprehensive approach allows for a more nuanced understanding of how engineering and management practices can be harmonized to drive both economic growth and societal progress in a rapidly changing world.

<https://ice-conference.org/>

AREAS & TOPICS OF INTEREST ⁽¹⁾

- **ENGINEERING**
 - **Industry 5.0**
 - Advanced Service Systems and Automation
 - AI-Driven Manufacturing and Production
 - Intelligent, Adaptive and resilient Supply Chains
 - Smart Manufacturing and Autonomous Systems
 - Smart Production and Process Optimization
 - Smart Services and Customer-Centric Solutions
 - **Sustainable Engineering & Circular Production**
 - Additive Manufacturing and Advanced Materials
 - Carbon-Neutral and Renewable Energy Manufacturing
 - Circular and Closed-Loop Manufacturing Systems
 - Eco-friendly and Low-Impact Production Technologies
 - Green and Sustainable Supply Chains
 - Human Centred Production Systems
 - Resource-efficient and Optimized Systems
 - Zero-waste and Sustainable Production Models
- **TECHNOLOGY**
 - **Digital Technologies**
 - Artificial Intelligence and Autonomous Systems
 - Advanced Cybersecurity and Threat Intelligence
 - Digital Health Technologies
 - Digital Product Passports
 - Internet of Things and Edge Computing
 - Machine Learning and Deep Learning Applications
 - Mixed Reality and Immersive Experiences
 - Smart Systems and Autonomous Infrastructure
 - **Digital Transformation**
 - Agile Organizational Transformation Strategies
 - AI-Enhanced Data-Driven Decision Making
 - Co-evolution in Digital Ecosystems
 - Evolving Role of CIO/CDO in Innovation and Strategy
 - Holistic Transformation and Change Management
 - Leadership in the Age of Digital Transformation
 - Low Code and Citizen Developer
 - Seamless Integration of Legacy Systems
- **INNOVATION**
 - **Open Innovation and Collaboration**
 - Collaborative Experience Design and Innovation
 - Crowdsourced and Co-Created Innovation
 - Circular and Sustainable Innovation Models
 - Living Labs and User-Driven Innovation
 - Networked and Cross-Industry Innovation
 - Purpose-driven Innovation and Business
 - Responsible and Ethical Innovation Practices
 - User Driven Innovation and Living Labs
 - **Innovation Ecosystems and Responsibility**
 - Education for Sustainable Innovation
 - Inclusiveness and Accessible Innovation
 - Resilient Societies through Inclusive Innovation
 - Social Innovation for Community Development
 - Societal Resilience and Adaptive Innovation
 - Sustainable and Eco-Driven Innovation
 - Technological Innovation for Global Challenges
 - Teaching and Learning Collaborative Environments
- **ENTREPRENEURSHIP**
 - **Entrepreneurial Ecosystems and Support**
 - Collaborative Networks in Entrepreneurship
 - Commercialization Strategies for Technological Innovations
 - Digital and Platform-Based Entrepreneurship
 - Entrepreneurship and Venture Growth Metrics
 - Entrepreneurship in Developing and Emerging Economies
 - Female-Led and Gender-Inclusive Entrepreneurship
 - Social Entrepreneurship and Sustainable Business Models
 - **Corporate Entrepreneurship and Intrapreneurship**
 - Ambidextrous Leadership for Innovation and Efficiency
 - Bottom-up Innovation
 - Corporate Venturing and Innovation Investment
 - Organizational Ambidexterity in Dynamic Markets
 - Strategic and Organizational Renewal Initiatives
 - Support Structures and Processes
 - Venture Building and Internal Start-ups

IMPORTANT DATES

- **Conference:**
 - Full paper submission deadline: **February 9th, 2025**
 - Author notification due: **March 31st, 2025**
 - Final version papers due: **May 15th, 2025**
 - Conference dates: **June 16th - 19th, 2025**
- **Special Sessions:**
 - Special Sessions proposals: **November 8th, 2024**
 - Acceptance notification due: **November 15th, 2024**
 - Special Sessions call for papers: **November 18th, 2024**
 - Full paper submission deadline: **February 9th, 2025**
 - Author notification due: **March 31st, 2025**
 - Camera-ready copies due: **May 15th, 2025**
 - Special Sessions: **June 16th - 19th, 2025**

CONFERENCE

ICE-2025 Conference welcomes submissions of scientific papers directly connected with the Conference Areas & Topics but also industrial papers demonstrating relevant case studies and implementation of Engineering, Technology, Innovation and Entrepreneurship.

Microsoft Word and LaTeX templates with formatting instructions for full papers (min. 8, max. 10 pages length) can be downloaded from [IEEE Templates](#).

The ICE Peer-Review involves three members of the International Programme Committee for reviewing each submitted paper while the Peer-Review Chairs, based on the review's report, provisionally accept or reject it. After authors make the improvements recommended by reviewers, apply the IEEE PDF Express checker and transfer the copyrights to IEEE, the accepted final version will be submitted for inclusion into [IEEE Xplore](#) subject to meeting IEEE Xplore's scope and quality requirements, at the condition that one author presents it during the allocated session at the conference.

SPECIAL SESSIONS

ICE-2025 Conference invites proposals for Special Sessions to be held in conjunction with the main conference. Special Sessions aim to be a forum to discuss advanced research and innovative solutions developed at R&D projects and industry. Special Sessions may also be devoted to case studies, solutions for industrial sectors, original and successful implementation, standardization issues or road mapping activity. Use the [ICE2025 Special Sessions Proposal Form](#) for submitting your proposal.

THEME

ICE-2025 will focus on how artificial intelligence is reshaping industries by revolutionising traditional processes and enabling smarter, faster decision-making. This transformation is driven by AI's ability to optimize operations, enhance product development, and create new efficiencies in engineering and manufacturing. The conference will highlight how digital leaders can harness AI to foster innovation, improve competitiveness, and address the challenges of integrating cutting-edge technologies across industrial sectors. Attendees will explore best practices, strategic insights, and the evolving role of leadership in navigating this AI-driven revolution!

⁽¹⁾ The topics of interest are examples, other topics that fit into the areas of the conference are welcome.