

- **Sustainable Manufacturing Technologies:** Emerging technologies and trends that enable sustainable manufacturing and their implications for the supply chain, including green materials, energy-efficient processes, and low-waste production methods.
- **Circular Economy Integration:** Exploration of circular economy principles within Industry 5.0 and their impact on sustainable supply chain management, emphasizing recycling, reuse, remanufacturing, and resource efficiency.
- **Digital Twins and Sustainability:** The use of digital twin technologies to optimize resource utilization and energy consumption in industrial processes and supply chain operations.
- **Sustainable Supply Chain Management:** Strategies for building eco-friendly and resilient supply chains, minimizing carbon footprints, and ensuring ethical sourcing in the context of Industry 5.0.

- Energy Efficiency and Renewable Energy: Innovations in energy-efficient practices, integration of renewable energy sources, and their role in supply chain sustainability within Industry 5.0.
- Smart Cities and Sustainable Urbanization: The role of Industry 5.0 in creating sustainable, interconnected smart cities that focus on reducing environmental impact and optimizing supply chain logistics.
- Regulatory Compliance and Sustainability: Discussion of the legal and regulatory aspects impacting sustainability in Industry 5.0 and sustainable supply chain management, and how to navigate compliance effectively.
- Environmental Impact Assessment: Approaches to assess and quantify the environmental impact of industrial and supply chain activities and how to reduce it effectively.
- Collaborative and Sustainable Business Models: Examination of collaborative business models that promote sustainability through shared resources and circular economic practices, while enhancing supply chain collaboration.
- Case Studies and Success Stories: Real-world examples of industries and supply chains successfully transitioning to Industry 5.0 with sustainability as a driving force, and the outcomes they have achieved.
- Sustainable Technology Adoption Challenges: Identifying and addressing challenges, barriers, and risks associated with the adoption of sustainable technologies and practices within Industry 5.0 and throughout supply chain operations.

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## **SUBMISSION**

Papers must be submitted electronically for peer review by: **January 31, 2026**

<https://www.iccad-conf.com/submission/>

All papers must be written in English and should describe original work. The length of the paper is limited to a maximum of 6 pages (in the standard IEEE conference double column format).