

# COINS 2020

## IEEE International Conference on Omni-layer Intelligent systems

### Track Name: Industry 4.0 and Smart Manufacturing

#### Call for Papers

July 27-29, 2020  
Barcelona, Spain  
<https://coinsconf.com>



This special issue aims to provide a platform for researchers to showcase findings and explore emerging technologies in the design and implementation of smart factories. Specific topics include, but are not limited to, the following:

- Intelligent IoT-based solutions for smart manufacturing
- Innovative sensing strategies for process monitoring and tracking of product history.
- Digital twin in product design and smart manufacturing
- Smart interconnection and interoperation for digital twin
- Machine learning techniques to improve process control and part quality
- Real-time IoT data analytics, data aggregation, data abstraction and event detection
- Integration of additive manufacturing in smart factories
- Smart modeling of factory floors and manufacturing processes integrated with sensor data
- Manufacturing data analysis and diagnostics for real-time reporting using intranet capabilities and/or the cloud
- Human machine interface and communication technologies
- Augmented reality (AR), virtual reality (VR) and mixed reality (MR) immersive technologies
- Security, safety and privacy in Industry 4.0
- Edge-fog-cloud computing in smart factories
- Privacy-preserving machine learning techniques
- Data Sharing/Exchanging for smart manufacturing
- The application of Distributed Ledger Technologies (DLTs) and blockchain for smart manufacturing
- Advanced robotics (collaborative and adaptive robots)
- Semantic Web of Things for Industry 4.0
- Blockchain, AI/ML, big data and IoT business model in smart energy
- Industry 4.0 implementation and real-world case studies

#### Key Dates



Submission of Regular Papers and Special Session Papers  
**March 06, 2020**



Notification of Paper Acceptance  
**May 06, 2020**



Camera-Ready Submission  
**May 16, 2020**

