APMS 2021
Nantes, France
IFIP International conference
Advances in Production Management Systems
Online
“Artificial Intelligence for Sustainable and Resilient Production Systems”

OBJECTIVES AND SCOPES OF APMS 2021
APMS 2021 brings together leading international experts on production systems and logistics from academia, industry, and government to discuss pressing issues in smart manufacturing, operations management, supply chain management, and Industry 4.0 in the Artificial Intelligence era. The conference features several sessions to discuss original, high-impact academic contributions, which will be published in the Springer Series ACIT and indexed on SCOPUS and Web of Science. World-renowned industry leaders will share their industrial viewpoints and insights through industry keynotes. The conference is sponsored by the International Federation of Information Processing (IFIP), and it is organized by the IFIP Working Group 5.7 on Advances in Production Management Systems established in 1978. The conference is also supported by two leading journals: the International Journal of Production Research (IJPR) and Production Planning & Control (PPC).

CONFERENCE TOPICS
Topics of interest include, but are not limited to the following:

Artificial Intelligence & Data-driven Production Management
- Artificial Intelligence and Machine Learning
- Advanced Modelling, Simulation and Optimization Techniques
- Big Data Analytics
- Blockchain Technologies
- IIOT and Interoperability
- Data-driven Manufacturing and Services Operations Management
- Novel Production Planning & Control Approaches
- Supply Network Planning, Optimization and Finance
- Distribution Management

Digital Supply Networks
- Digital and Smart Supply Chain Management
- Intelligent Logistics Network Management
- Risk Analysis, Resilience and Disruption Management
- Strategies for Supply Network Digitalization
- Technology Implementation in Digital Supply Network
- Organization and Culture in Digital Supply Network
- Information Sharing in Platform Supply Chains
- Digital and Virtual Quality Management Systems
- Product-Service Systems

Smart Manufacturing & Industry 4.0
- Manufacturing System Engineering: Agile, Flexible and Reconfigurable
- 5G-enabled Manufacturing
- Connected, Smart Factories of the Future
- Cyber-Physical Cognitive Systems
- Cyber-Physical Production Systems and Digital Twins
- Mass Customization and Mass Individualization
- Cyber Security and Data Protection in Smart Industries
- Digital Assistance Systems: Augmented Reality and Virtual Reality
- Industrial, Collaborative, Mobile and Software Robots
- Intelligent Maintenance Systems
- Lean Manufacturing and Innovation

Sustainable Production Management
- Additive and Hybrid Manufacturing
- Sustainable Product Design and Engineering
- Green Manufacturing
- Remanufacturing and Disassembly Systems
- Socio-Cultural Aspects in Production Systems
- Circular Economy and Closed Loop Supply Chains

Cloud and Collaborative Technologies
- Emerging Digital Manufacturing Platforms
- Value Co-creation in Manufacturing and Service Systems
- Collaborative Design and Collaborative Engineering
- Cloud-Manufacturing

CONFERENCE WEBSITE
http://www.apms-conference.org/
SUBMISSIONS

Authors are invited to submit papers (up to 8 pages) using the author guidelines provided by Springer. The conference proceedings will be published by Springer as Proceedings in IFIP Advances in Information and Communication Technology (AICT). Volumes published as part of the IFIP AICT are made available through multiple indexing services including Clarivate Analytics’ Web of Science and Scopus.

The conference will coincide with the celebration of the 60th anniversary of the International Journal of Production Research (IJPR). Established in 1961, IJPR is a leading journal in the areas of manufacturing, industrial engineering, operations research and management science. For this occasion, a number of specific events and sessions will be organized, a large number of authors of APMS 2021 will be invited after the conference to submit extended versions of their papers to IJPR or PPC as well as some special issues of other well-known international journals will be prepared. Moreover, several awards (e.g. Best papers, Best student papers, Best industrial applications ...) will be programmed as a gesture to recognize authors outstanding scientific contributions and works in their respective areas. The selection will be based on the paper ingenuity, importance, and highlights some of the theoretical and practical innovations that are likely to shape the future of production systems and logistics.

HOST ORGANISATION

APMS 2021 is hosted by IMT Atlantique, a French engineering school (Grande Ecole, a sort of Ivy League School), one of the leading French institutions of higher education and research in this field. It is ranked among the top 400 universities in the world in THE World University Ranking 2020, present in four themes of the Shanghai ranking, and is in top 25 in U-Multirank on the number of joint publications with industrial partners. The School is a part of the National Institute of Science and Technology IMT. Its cutting-edge research carried out in joint research units with CNRS, Inria, INSERM, Ecole centrale de Nantes, University of Nantes, etc. The Department of Automation, Production and Computer Sciences (DAPI) is located on the Nantes Campus of IMT Atlantique. The department employs around one hundred people, forty of which are Faculty Members. The research topics of DAPI include Control, Robotics, Operations Research, Industrial Engineering, Artificial intelligence, and Software Engineering. The Faculty members and PhD student of DAPI are members of the LS2N CNRS research laboratory (http://ls2n.fr/).