



CALL FOR PAPERS

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Venue:

Arts & Métiers Paris Tech, Paris, FR

Scientific Partners



Registration fees:

Before 25/7/2020 After 25/7/2020

Ph.D. students:	200€	300€
Regular:	350€	450€

Contact:

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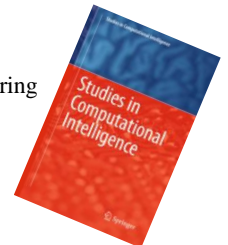
Website: sohoma2020.sciencesconf.org

It is our pleasure to invite you to participate in the 10th SOHOMA European Workshop on Service Oriented, Holonic and Multi-Agent Manufacturing Systems for Industry of the Future, organized by the Arts et Métiers ParisTech in collaboration with University Politehnica of Bucharest (the CIMR Research Centre in Computer Integrated Manufacturing and Robotics), Université Polytechnique Hauts-de-France (the LAMIH Laboratory of Industrial and Human Automation Control, Mechanical Engineering and Computer Science) and Polytechnic Institute of Bragança (the CeDRI Research Centre in Digitalization and Intelligent Robotics). The SOHOMA workshop series has the scientific support from GdR-MACS and the IEEE Industrial Electronics Society Technical Committee on Industrial Agents.

The main objective of SOHOMA Workshops is to foster innovation in smart and sustainable manufacturing and logistics systems and in this context to promote concepts, methods and solutions for the digital transformation of manufacturing through service orientation in holonic and agent-based control with distributed intelligence. The theme of the SOHOMA'2020 Workshop is “**Manufacturing as a Service – virtualizing and encapsulating manufacturing resources and controls into cloud networked services**”.

Workshop topics

- Customer-oriented logistics
- Modelling of discrete event dynamic systems in manufacturing
- Multi-Agent Systems in industry
- Control with distributed intelligence
- Holonic Manufacturing Execution Systems
- Product intelligence: concepts, architectures, implementation, use cases
- Industrial Internet of Things / Physical Internet
- Swarm intelligence in manufacturing
- Industrial Internet and digital manufacturing
- Dynamic and green infrastructure for sustainable manufacturing
- Predictive resource maintenance and risk management
- Mixed production planning and scheduling
- Virtual factory, supply chains and logistics
- Manufacturing Integration Framework
- Intelligent Manufacturing Systems
- Cloud Manufacturing and resource virtualization
- Digital Twins and Digital Shadows for resource and product virtualization
- Edge and Fog Computing for Industrial Internet of Things
- Computing and Service Oriented manufacturing
- Servitization and Product-Service Systems
- Multi-robot systems in manufacturing, control and applications
- Bio-inspired theories for smart manufacturing and evolutionary robotics
- Big Data and the contextual enterprise
- Cyber-Physical Production Systems and Industry 4.0
- Performance evaluation of industrial emerging behaviour
- Holonic hybrid supervised control of industrial processes
- Humans in Industry 4.0
- Intelligent asset management for the construction industry



Papers submission

SOHOMA'2020 papers must be submitted via the “Submission” menu of the SOHOMA'2020 website. Papers can be submitted individually for any of the above topics or for the Special Sessions defined for this Workshop.

The material submitted for presentation at the workshop must be original, not published or being considered elsewhere. The working language is English. The papers are limited to 12 pages formatted in the Springer Book format for “Studies in Computational Intelligence” according to the instructions given at <https://www.springer.com/series/7092>.

All papers accepted and duly presented at the Workshop will be included in the SOHOMA'20 post conference Proceedings, ISI and DBLP Computer Science database indexed, published in the Springer series “Studies in Computational Intelligence”. Selected, extended papers will be proposed for publication in a special issue of one journal representative for the workshop's domain

Important dates

Proposals of special sessions: **March 1st**
Full paper submission: **April 15th - May 1st - May 15th**
Notification of acceptance: **May 25th**
Final, Camera-ready paper submission: **June 25th**
Early registration and fee payment: **July 25th**