

Call for Papers

It is our pleasure to invite you to the **16th International Workshop on Service-Oriented, Holonic and Multi-Agent Manufacturing Systems for Industry of the Future (SOHOMA'26)**. This in-person only workshop will be held in Cambridge (UK) and is organized by the Institute for Manufacturing (University of Cambridge) in collaboration with the Laboratory of Industrial and Human Automation Control, Mechanical Engineering and Computer Science (l'Université Polytechnique Hauts-de-France) and the Research Centre in Digitalization and Intelligent Robotics (Polytechnic Institute of Bragança). This year, the workshop will be run in conjunction with the 4th International Workshop on Low-Cost Digital Solutions for Industrial Automation (**LoDISA 2026**).

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'26 workshop is **"Impact: putting SOHOMA research to use"**. In this edition, the workshop will focus on how service-oriented, holonic and multi-agent system principles can be applied in real industrial systems to enable advanced agility, resilience and sustainability for the industry of the future.

Workshop topics

- Holonic, reconfigurable, flexible and agile manufacturing systems
- Multi-agent systems and control for distributed intelligence in industry
- Product intelligence: concepts, architectures, implementation, use cases
- Modelling of discrete event dynamic industrial systems
- Dynamic and green infrastructure for sustainable manufacturing
- Mixed production planning and scheduling
- Virtual factory, networked supply chains and customer-oriented logistics
- Manufacturing integration frameworks
- Digital twins for resource, product and process virtualization
- Edge and Fog computing for the Industrial Internet of Things
- Physical Internet
- Cloud manufacturing and resource virtualization
- Servitization and product-service systems
- Low-cost automation
- Multi-factory coordination
- Generative AI in distributed automation
- Industrial automation development
- Swarm intelligence in manufacturing
- Control and applications of multi-robot systems in manufacturing
- Bio-inspired theories for smart manufacturing and evolutionary robotics
- Big Data streaming and the contextual enterprise
- AI and machine learning in large scale manufacturing
- Predictive resource health monitoring and maintenance
- Cyber-physical production systems
- Manufacturing-as-a-Service and product design for open manufacturing
- Digitalization of supply chains and Logistics 4.0/5.0
- Human-System integration and Human-AI collaboration in Industry 4.0/5.0
- Ethics of autonomous intelligent systems
- Use cases and experiments related to Industry 4.0/5.0
- Effects of new technologies from Industry 4.0/5.0 on decision making
- **Frameworks and standards for emerging manufacturing technologies**

Paper Submission

Papers aligned with the above topics or those of workshop special sessions must be submitted through the submission portal accessible via the SOHOMA'26 [website](#). The paper content must be original work, written in English, and must not be published or being considered elsewhere. Papers are limited to 12 pages formatted in the Springer Book format for Studies in Computational Intelligence, according to the instructions given [here](#).

All papers accepted and duly presented in person at the workshop will be included in the SOHOMA'26 post-conference proceedings volume published in the Springer series "Studies in Computational Intelligence" (TBC), indexed in the Scopus, DBLP Computer Science and WoS databases. **Extended versions of selected papers will be proposed for publication in special issues of journals representative of the workshop's domain.**

Ethical Conduct for Peer Review

Authors must take full responsibility for all content in their paper, including any content generated by AI tools that might be construed as plagiarism or scientific misconduct. Authors are allowed to use generative AI tools such as Large Language Models (LLMs) to assist in writing or research, but LLMs are not eligible for authorship. We encourage authors to explain any notable ways in which these tools were used in their research methodology. A global verification of plagiarism and self-plagiarism will be conducted on each submission throughout the review process.

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Important Dates

Proposals for Special Sessions:	February 6, 2026
Full paper submission:	April 5, 2026
Notification of decision:	May 4, 2026
Final camera-ready paper submission:	July 12, 2026
Early registration and fee payment:	July 18, 2026
SOHOMA 2026 Workshop	September 22-23, 2026

Registration Fees

Option	Before/on 18 July	After 18 July
Student presenter *	£ 175	£ 260
Academic/Researcher presenter	£ 300	£ 400
Attendee only	£ 100	£ 150
Additional paper	£ 100	£ 150

* Students must provide a valid university ID

Participants who register for LoDISA 2026 qualify for discount – please see website for details.

Scientific and academic partners

