



Call for Workshop Papers

Workshop:

Interoperability challenges and solutions within industrial networks (Resilience and interoperability)

Workshop Chairs

- Frank-Walter Jaekel
- Thomas Knothe

You are cordially invited to participate to the Workshop *“Interoperability challenges and solutions within industrial networks”* in the **International Conference on Interoperability for Enterprise Systems and Applications I-ESA 2022**. Since several years, I-ESA is the major event regarding Enterprise Interoperability and the official conference of Virtual Laboratory for Enterprise Interoperability ([INTEROP-VLab](#)) with the sponsorship of the International Federation for Information Processing ([IFIP](#)).

Accepted and presented papers will be published by [CEUR Workshops Proceedings](#).

Objectives

Industrial networks depend on fast communication and flexible data use in corporate networks, thus in particular at transparent and flexible supply relationships extended with financial services, governmental services, IT services, and other services like for energy.

All the partners in the network faces, among other things, the challenge of the existence of a difficult-to-manage number of platforms, digital services, cloud solutions and It services, which also include enterprise platforms for products and services. Interoperability usually only takes place within a solution and can only be realised across the board with a high translation effort. This creates a kind of barrier for finding and connecting new network partners.

The workshop targets the exchange about industrial networks, ecosystems and social networks. The goal is to get a state of the art of activities and demands for industrial networking including the management of regulations, incidences and reconfiguration of networks. This includes sustainability, resilience and long term reuse of products as well as the recycling processes.

The objective of this workshop is to provide a forum for discussion of

- Challenges and opportunity of existing network features also in terms of that has been proposed and what is available in terms of service.
- Requirements and potential business opportunities for future enterprise network and its resilience and robustness.
- Overcoming the continuing terminological and semantic challenges in terms of merging and sharing information.

We intend to provide a playground for the discussion. The final configuration will depend on the number of participants.

Topics

Requirements for network systems, supply chain management (SCM) versus advanced planning systems (APS), ecosystems and network ontologies, resilience and robustness of enterprise networks and value chains, future challenges for enterprise networks and enterprise ecosystems, life cycle management from production to reuse to recycling in a long-term enterprise network.



Paper Submission

Papers must be in English, describes original work and must follow the [CEUR guidelines](#) for authors. Paper length should be 6 pages for a full paper and 4 pages for a short paper.

Authors should submit their contributions through [confmaster](#) system.

Key Dates

January 31 st , 2022	First draft paper submission
February 15 th , 2022	Notification of acceptance
March 23 rd , 24 th , 2022	I-ESA 2022 Workshops
April 18 th , 2022	Camera-ready
June 20 th , 2022	Publication of Proceedings

Please, consider that **at least one author per paper must register** to the Workshops by **February 18th, 2022**. If none of the authors is registered, the paper will not be included in the workshop programme and in the proceedings.

Further Information about this Workshop

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Further Information about Conference

Website: <https://www.ipk.fraunhofer.de/en.html>