27th International Conference on Production Research
Cluj-Napoca, Romania, 23-28 July 2023

Track title:

Semantic data interoperability and integration for resilient manufacturing

Themes

Integration and interoperability of various software tools I sone of requirements for resilience of modern production systems. Effectiveness and efficiency by which software tools, and corresponding digital models digital twins contribute recovery from to disruption or failures in production systems represent a critical factors to accomplish resilience

In the context of semantic data interoperability and integration, building resilience can involve methods and techniques related to Industrial Internet of Things (IIoT), Industry 5.0, Explainable Intelligence, Ontologies, Semantic Web, Knowledge Graphs , Digital Twins and others.

Topics

We are looking for papers that address the impact of data interoperability and integration on resilience in some of the following topics (not exclusive):

- Digital and Cyber Manufacturing
- Industry 4.0 and 5.0
- Data Science and Data Analytics
- Artificial Intelligence/Machine Learning
- Ontologies for interoperability
- Digital Models, Digital Artifacts, and Digital Twins
- Collaborative Robotics and Artificial Intelligence in Production

Submission procedure

Interested contributors should send the email to sormaz@ohio.edu by March 31, 2023, with the proposed title of the paper, in addition to submitting the abstract to the ICPR site.

Full papers are due on June 15, 2023.

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