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Special Session on

“Digital Twin Driving Industry 4.0”

Organized by

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Call for Papers

Theme:

Industry 4.0 is reshaping the manufacturing world, and several countries worldwide have been implementing initiatives, such as “Industrie 4.0” in Germany. These programs are driving the adoption of emerging technologies, e.g., Digital Twin. This technology is emerging as one of the most promising and innovative technologies for solving critical challenges of smart manufacturing environments. In the last few years, the importance of Digital Twin has been growing both in academia and industry fields. This session intends to bring together research that presents different approaches on how the Digital Twin is solving the challenges of developing an Industry 4.0 manufacturing environment.

Topics of interest include, but are not limited to:

- Digital Twin for Digital Transformation and Digitalisation

- Digital Twin Use Cases and Applications in Industry
- Digital Twin Concept, Models, Design, and Integration
- Digital Twin for Trustworthy Decision-Making
- Digital Twin and Artificial Intelligence
- Digital Twin within Simulation Environments
- Digital Twin for Dynamic (Re)configuration and Optimisation
- Digital Twin and Human Integration
- Digital Twin Security