

Special session**Deadline: 15 May 2020****Title:**

Production system optimization in 4.0 context using continuous improvement

Organised by (names, affiliations and emails)

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Abstract:

The performance improvement and the optimization of the product development systems is a recurrent concern in organizations. The objective is to ensure a competitiveness and long term survival. One way to obtain better performance in these processes is the use of Continuous Improvement. It aims at reducing unnecessary variations and steps in the work process by the elimination of waste which is perceived as any action that does not add value to the product or systems. For that, different efforts have been devoted to the research and the development of strategies, models and implementations. The objective of this special session is to discuss new contributions and scientific challenges on:

- How can continuous improvement improve the production system? How to consider the integration of human factors?*
- In the current 4.0 context, what is the contribution of continuous improvement? What are the impacts on technological transformations, in particular in Reconfigurable Manufacturing Systems?*
- In the current 4.0 context, how continuous improvement processes can benefit from the support of data-driven models?*
- How metaheuristics or decision making support are used to solve these problems?*

List of topics:

Production planning and scheduling, resource allocation

Continuous Improvement and lean manufacturing

Reconfigurable manufacturing system

Data-Driven Improvement

Operational Research, metaheuristics, decision making support

Human factors

Keywords:

Continuous Improvement, Optimization, Metaheuristics, Reconfigurable Manufacturing System, Data