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Nantes, France, June 22-24, 2022

Integrating Human factors/motions and IA in the context of Industry 4.0

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Aim & scope: The effects of workforce on manufacturing systems have attracted the attention of a wide range of researchers in recent years. This session is at the intersection between Human Factors/Motions (HF/M), Artificial Intelligence (AI) and Operations Research (OR).

Applying innovative solutions centered on human characteristics in Industry 4.0 should enhance the flexibility, the interoperability and the performance of the manufacturing systems by making them more autonomous and intelligent.

Besides, human motion analysis could optimize both the nature of human interaction with his environment and the whole manufacturing process. Finally, the benefit of addressing AI integrated to the implication of human position can open many interesting challenges in the area of OR.

The objective of this Invited Session is performing a review on Human Factors/Motions (cognitive load, injury risks, ergonomic aspects, motions, etc.) and OR studies taking advantage of AI techniques. Topics may include, but are not limited to opportunities of industry 4.0 for human-centered manufacturing systems.

Keywords: Human Factors/Motions, Artificial Intelligence, Optimization, Human-centered Manufacturing Systems

Submission: The submission process and the guidelines of paper preparation can be found on the web page of the conference at: https://hub.imt-atlantique.fr/mim2022/

Please submit your contribution using the following session identification code: -

Important dates:

December 25, 2021   Deadline for the submission
February 15, 2022   Notification of acceptance/rejection
March 15, 2022   Deadline for the final submission

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