Special Issue

Advances in Man-Machine Systems Dynamics

Message from the Guest Editors

Historically, the engineering modeling and simulation efforts have concentrated primarily on machines, while the trend is now towards the analysis of the combined human–machine system. Indeed, in different fields of engineering the machines are supporting and cooperating with the humans, e.g., cobotics, while in other fields the machine needs to interact with the human to carry out their purpose, e.g., in automotive steering assistance systems or in rehabilitation systems where the behavior of the machine needs to adapt to the human response. This Special Issue aims at disseminating the latest research achievements, findings, and ideas in the field man–machine systems dynamics, such as robotics (e.g., collaborative and cooperative robots), dynamic modelling, rehabilitation and ergonomics, human-vehicle interactions and human factors, driver- and rider-assistance-systems, manufacturing systems and industry 4.0. Papers are welcome on topics that are related to theory, practice, and applications of man–machine systems dynamics.

Keywords:

- dynamic modelling
- automation and industry 4.0
- cobots, automotive
- rehabilitation and ergonomics

Guest Editors

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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