



Advancing Human-Robot Collaboration in Industry 4.0

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Message from the Guest Editor

Dear Colleagues,

Production process planning and management requires stable actions based on relevant collaborations between human and cobot. The performance and efficiency of complex manufacturing depends on real-time data analytics, flexible algorithms, synchronization, and the coexistence of human and robot. Currently, research is based on intelligent systems, real-time analytics, and relevant manufacturing knowledge.

We are inviting you to contribute papers to this Special Issue on “Advancing Human-Robot Collaboration in Industry 4.0”. This Special Issue represents a contribution to the theoretical and practical approaches for researchers and professionals in the area of advanced concepts of optimal coexistence. The submitted research papers are oriented to the following:

- Data analytics concepts of human–cobot workplace planning;
- Process management of flexibility and multitasking in real time;
- Modelling and simulation of optimal production flow;
- Concepts of collaborative workplace psychology and human–cobot ethics.



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Prof. Dr. Felicita Chromjaková
Guest Editor

Special Issue



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Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.

Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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