Special Issue

Advanced Decision-Making Techniques in Dynamic Industry 4.0 Sustainable Engineering Processes

Message from the Guest Editors

The successful enrolment of Industry 4.0 into worldwide engineering processes is highly dependent on advanced decision-making techniques. The globalized market and digitally supported industry, regardless of the production type, from the most basic job shop to mass personalized production, aim to optimize engineering processes. In the era of Industry 4.0, where the high complexity of engineering processes is reflected in symmetry with multicriteria decision making, optimization problems need to be solved with advanced evolutionary computation methods, complex system simulations, and new visual computing approaches. Personalized products in Industry 4.0 manufacturing systems are represented by the high-mix low-volume production type, for which adequate evaluation of different optimization parameters is crucial. The impact of highly dynamic processes (rapidly changing global demounts and new global paradigms) needs to be further explored in order to sustainably justify engineering processes in globalized markets.

Guest Editors

Dr. Robert Ojstersek

Dr. Péter Tamás

Dr. Hankun Zhang

Dr. Mihalache Ghinea

Deadline for manuscript submissions

closed (31 January 2022)

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/si/92250

Symmetry
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
symmetry@mdpi.com

mdpi.com/journal/symmetry

Symmetry

an Open Access Journal by MDPI

Impact Factor 2.2
CiteScore 5.3

mdpi.com/journal/symmetry

About the Journal

Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

Editor-in-Chief

Prof. Dr. Sergei Odintsov
1. ICREA, 08010 Barcelona, Spain
2. Institute of Space Sciences (IEEC-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within SCIE (Web of Science), Scopus, CAPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Multidisciplinary Sciences) / CiteScore - Q1 (General Mathematics)

MDPI