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

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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 demands and new global paradigms) needs to be further explored in order to sustainably justify engineering processes in globalized markets.



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Special Issue

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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.

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