

Special Issue

Symmetry/Asymmetry in Smart Manufacturing

Message from the Guest Editors

Symmetry in production is a synonym for efficiency and predictability, while asymmetry is an indicator of flexibility, adaptability and innovative solutions in modern production conditions that have a hyper-dynamic character. Smart manufacturing is a modern concept of computer-integrated manufacturing that uses digitalization, networking and artificial intelligence to monitor and optimize the manufacturing process. Industry 4.0 technologies and AI methods are used in intelligent manufacturing solutions to improve engineering activities and processes as well as to predict errors. The aim of this Special Issue is to showcase the importance of the application of new digital technologies and smart services in modern industry and manufacturing in order to provide companies with the opportunity to automate and improve their manufacturing processes. With the introduction of these technologies, production and manufacturing systems become reconfigurable in order to adapt manufacturing capacities and functionality as quickly as possible to specific market requirements.

Guest Editors

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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.

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