

Special Issue

Symmetry in Advanced Manufacturing

Message from the Guest Editors

We are delighted to announce the launch of a Special Issue on “Symmetry in Advanced Manufacturing”. With the development of artificial intelligence, big data, robotics, and Internet of Things techniques, the manufacturing industry is transforming and upgrading in the direction of cooperation, networking, and intelligence. From a nanochip to a large cruise ship, many modern products propose increasingly higher requirements on accuracy, efficiency, environmental protection, and service quality for manufacturing processes and systems. Symmetry and asymmetry approaches always play important roles in balancing manufacturing systems and optimizing the manufacturing processes. This Special Issue aims to explore the profound impact of symmetry and asymmetry in advanced manufacturing and highlight the emerging trends in and cutting-edge research on advanced manufacturing techniques, including but not limited to issues related to machine tools, manufacturing planning and optimization, robotic manufacturing, sustainable and green manufacturing, additive manufacturing, computer-integrated manufacturing systems, manufacturing management, etc.

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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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