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Data Driven and Intelligent Aerospace and Robotics Systems

Guest Editors:

Dr. Chengxi Zhang

Dr. Jin Wu

Dr. Zian Wang

Prof. Dr. Caisheng Wei

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Message from the Guest Editors

Symmetry and asymmetry are common in engineering science. For example, electronic rotors, aircraft wings, and spacecraft flywheel structures possess excellent symmetry in actuators. Due to machining defects, these controlled objects are practically asymmetric, and external perturbations somehow break the symmetry. Therefore, we need to design sophisticated algorithms to maintain these elegant systems. The design of control systems is critical to the safe operation of various mechanical systems such as space vehicles, maritime robotics, and micromechanical systems. Current research is more than adequate, but more refined, intelligent, low-resource-consumption technologies for control systems algorithms are still in short supply to accommodate the industry's growth. In this Special Issue, “Recent Progress in Robot Control Systems: Theory and Applications,” we aim to attract original research and survey papers reflecting the recent advances in the theory and methodology driving recent progress in control system design and applications...

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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

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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Contact Us

Symmetry Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/symmetry
symmetry@mdpi.com
𝕏@Symmetry_MDPI