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Advances in Mechanics and Control II

Guest Editors:

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Deadline for manuscript submissions:
closed (31 May 2024)

Message from the Guest Editors

The key factor of creation efficient optimization methods in mechanics and control is revealing the regularities in complex technical and nature processes and provides them for analytical and numerical–analytical modeling. The level of penetration into the black box of this phenomenon could be estimated by the level of symmetry in its mathematical description. Papers devoted to research on the regularities of complex phenomena in mechanics and control using neurotechnology, machine learning, other up-to-date mathematical instruments and information technology are most welcome. Applications are planned to be in aerospace as a recommended area, including its connected fields. We solicit contributions for the relevant problems of space mission and system design, satellite constellation and formation flying, space traffic management, space debris removal, aerospace robotic vehicle control, Earth remote sensing, and geoinformation systems.

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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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