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Bioinspired Engineering: Collectivity and Design

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Deadline for manuscript submissions:
closed (31 March 2021)

Message from the Guest Editor

Dear Colleagues,

Symmetrical patterns and processes emerging through the collective behavior of populations in heterogeneous environments are ubiquitous. In this Special Issue, topics around bioinspired technology in the form of hard and soft technology, such as devices and algorithms, are welcome. Topics of papers can be, for instance, devices whose shape and/or topology mimics the one observed in animal and plants, and modeling techniques that simulate the process of species populations. Studies exploring (i) the analogy between the computational complexity of models and biological systems as computing machines, including philosophical implications, (ii) technology that allows us to measure symmetrical patterns and asymmetrical transitions, and (iii) design principles or realized architectural and engineering structures based on natural forms are also very encouraged.



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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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