



Geometric Algebra and Its Applications

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Deadline for manuscript
submissions:

closed (15 August 2023)

Message from the Guest Editors

Dear Colleagues,

The aim of our Special Issue, titled Geometric Algebra and Its Applications, is to bring together outstanding theoretical contributions to geometric algebra, adapting special structures and symmetries from various mathematical and physical research areas, but having real-world applications.

Some algebraic structures can be considered coming from mathematical or physical areas, giving outstanding constructions that motivate their abstract form. They can lead to specific symmetries that give sometimes their theoretical force.

Geometric algebra structures are involved in many concrete applications, most associated with singular geometric distributions on manifolds and using vector bundles. Most, for example, in mechanics and control, but also other areas.

The anchored approach used for singular geometric distributions can lead to general structures and symmetries in an analogous way as the classical cases.

Generalizations in a classical way, using different types of algebroids or groupoids, can make the transfer to the study of singular structures and symmetries using classical methods for regular ones.





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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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