

## Special Issue

# Computational Intelligence and Soft Computing: Recent Applications

### Message from the Guest Editors

The closely related fields of computational intelligence and soft computing cover such broad areas as fuzzy systems; artificial neural networks; evolutionary, population-based, and memetic algorithms; cognitive computing; and many others. The common points in these approaches are in the sub-symbolic representation of knowledge, which enables the modeling and highly efficient (often approximate) algorithmic solution of mathematically intractable systems and problems. This Special Issue targets the collection of recent applications where such approaches have proved successful and efficient, covering the spectrum of new models ready to be applied in practical modeling, new deep learning, hierarchical and multicomponent fuzzy-rule-based models, decision and control applications, or memetic algorithms for optimizing logistics and related tasks. The condition for inclusion in the Special Issue is the presentation of either (i) a novel methodological approach that is clearly suitable for real-life applications or (ii) an essentially new and working application with elements of novel approaches or novel combinations of existing methodologies.

### Guest Editors

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### Deadline for manuscript submissions

closed (31 May 2022)



## Symmetry

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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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