Asymmetric and Symmetric Studies on Medical Imaging

Guest Editor:

Prof. Dr. Yan Wang
School of Communication and Electronic Engineering, East China Normal University, Shanghai 200241, China

Deadline for manuscript submissions:
closed (16 January 2023)

Message from the Guest Editor

Dear Colleagues,

Symmetry is ubiquitous throughout the human body, with notable examples including tubular structures whose symmetry axis is of vital importance for tracking and segmentation, and two hemispheres in the brain whose anatomical structures serve as signals for the characterization of diseases. Asymmetric and symmetric learning can serve as important prior knowledge and assist in more comprehensive studies in medical images. This Special Issue aims to study 1) how to best utilize the asymmetric and symmetric prior knowledge to handle medical imaging data, 2) how to perform asymmetric or symmetric designed machine learning algorithms, and 3) how to improve the interpretability of medical imaging algorithms with regard to asymmetric and symmetric studies.

Special Issue

Editor-in-Chief

Prof. Dr. Sergei D. Odintsov
1. Institució Catalana de Recerca i Estudis Avançats (ICREA), Passeig Luis Companys, 23, 08010 Barcelona, Spain
2. Institute of Space Sciences (ICE-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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.
Journal Rank: JCR - Q2 (*Multidisciplinary Sciences*) / CiteScore - Q1 (General Mathematics)

Contact Us