

Special Issue

Symmetry and Asymmetry in Brain Behavior and Perception

Message from the Guest Editor

All vertebrates are apparently symmetrical in their anatomical external structure. Many internal organs also display apparent symmetrical organization, especially in the brain. This leads us to also expect symmetry in brain functions, such as in behaviour and perception.

However, upon closer inspection, such symmetry is only superficial. The most relevant example of this is the hand/limb preference, which has been documented in many animals other than humans. Is this asymmetry due to internal conditions or is it determined by external factors? Does this asymmetry in turn provoke other side differences in perception and behaviour? In this Special Issue of *Symmetry*, we will analyze symmetry and asymmetry in animals' and humans' behaviour and perception. Since these functions are strictly related to each other, being the result of an internal drive and a sensory modulation, it is important to try to elucidate which comes first, i.e., if asymmetrical behaviour can be generated by asymmetrical perception, and how; or vice versa, if asymmetrical perception follows asymmetrical behaviour...

Guest Editor

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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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