



Application of Mathematical Modelling and Symmetry in Neuroscience

Guest Editor:

Prof. Dr. Esperanza Navarro-Pardo

Developmental and Educational Psychology, University of Valencia, 46010 Valencia, Spain

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Message from the Guest Editor

Dear Colleagues,

This Special Issue of *Symmetry* features articles about the application of mathematical modelling and symmetry in neuroscience, focusing on the multidisciplinary approaches of cognitive development throughout the life span. First, we are interested in studying cognitive development as a field of neuroscience and psychology which includes, among others, information processing, executive functioning and problem solving, perceptual skills, attention changes, language, brain development, metacognition, socio-emotional cognition, cognitive reserve, and cognitive frailty, analyzed both empirically and theoretically in order to evaluate how human beings think, understand, and process the world around them.

In addition, another of our goals is to achieve a better understanding of successful cognitive aging, as it is currently a central issue in the field of public health...





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Prof. Dr. Sergei D. Odintsov

1. Institució Catalana de Recerca
i Estudis Avançats (ICREA),
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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.

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Symmetry Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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