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Symmetry and Asymmetry in AI-Enabled Human-Centric Collaborative Computing

Guest Editors:

Prof. Dr. Lianyong Qi

Dr. Wajid Rafiq

Dr. Wenwen Gong

Dr. Maqbool Khan

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Message from the Guest Editors

Dear Colleagues,

Over the past few decades, the trajectory of daily human activities has become closely intertwined with cyberspace, resulting in a vast amount of human-centric digital information on an unprecedented scale. Human-Centric Collaborative Computing (HCCC) has emerged as a cross-disciplinary cutting-edge research domain enabling the effective integration of these various human-related computational elements, thus significantly benefiting the interactions and collaborations among the physical devices, cyberspace and human activity. The unprecedented volume of human-centric data generated by HCCC requires the support of powerful computing, raising a serious challenge in this field.

Recently, Artificial Intelligence (AI), such as Deep Learning (DL), has emerged as a key technologies in realizing intelligent digital information processing. Through AI-based HCCC techniques, end users' sophisticated functional and nonfunctional requirements can be satisfied...

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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.

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Contact Us

Symmetry Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/symmetry
symmetry@mdpi.com
𝕏@Symmetry_MDPI