

## Special Issue

# Symmetry/Asymmetry in Artificial Intelligence for Healthcare Applications

### Message from the Guest Editors

This Special issue of *Symmetry*, entitled "Symmetry/Asymmetry in Artificial Intelligence for Healthcare Applications," seeks to explore the dualistic roles of AI in enhancing healthcare diagnostics and treatments. This Special Issue will particularly focus on the development and application of AI in diagnosing brain tumours, detecting and treating autism, and leveraging large multimodal models for comprehensive disease diagnosis. Contributions are invited for cutting-edge research that harnesses symmetric algorithms, which learn from balanced data sets and uniform patterns, as well as asymmetric approaches that tackle irregular, uneven data typical of real-world clinical scenarios. The objective is to elucidate how AI can maintain robustness in both symmetrical and asymmetrical data environments, ultimately improving accuracy and efficacy in healthcare outcomes. This Special Issue aims to bridge the gap between theoretical AI models and practical medical applications, highlighting the potential for AI to revolutionize personalized medicine, enhance early detection, and tailor treatment strategies.

### Guest Editors

Dr. Yonggang Zhang

Dr. Hangyu Li

Prof. Dr. Hang Yu

### Deadline for manuscript submissions

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## 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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### Editor-in-Chief

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