Recent Advances of Computational and Mathematical Applications in Deep Learning

Guest Editors:

Dr. Branislav Popovic
Faculty of Technical Sciences, University of Novi Sad, Trg Dositeja Obradovića 6, 21000 Novi Sad, Serbia

Dr. Marko Janev
Mathematical Institute of the Serbian Academy of Sciences and Arts, Kneza Mihaila 36, 11001 Belgrade, Serbia

Dr. Lazar Kopanja
Faculty of Information Technology, Alfa BK University, Palmira Toljatija 3, 11070 Novi Beograd, Serbia

Deadline for manuscript submissions:
30 July 2024

Message from the Guest Editors

Dear Colleagues,

The Special Issue is aimed toward recent theoretical advances and practical computational and mathematical applications in deep learning. The editors would like to provide an opportunity to present state-of-the-art research on the development of cutting-edge neural network model architectures, the understanding, explainability, and interpretability of deep learning models, their mathematical bias and fairness, robustness, and ethical and societal regulations and considerations, including but not limited to subjects such as image recognition, retrieval, generation and processing, speech, speaker and emotion recognition and synthesis, style translation, generative adversarial models, reinforcement learning, transfer learning, natural language processing, attention mechanisms, transformer-based networks, sequence modelling, data augmentation, time series analysis, etc.

We hope that the initiative will be attractive to deep learning researchers and experts in mathematical and computational deep learning applications, and we highly encourage you to submit your current research for peer review before the deadline.

Special Issue