# Special Issue

# Recent Advances of Computational and Mathematical Applications in Deep Learning

# Message from the Guest Editors

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-ofthe-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.

#### **Guest Editors**

Dr. Branislav Popovic

Dr. Marko Janev

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## Deadline for manuscript submissions

closed (30 July 2024)



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# Message from the Editor-in-Chief

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## Editor-in-Chief

## Prof. Dr. Humberto Bustince

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