Deep Learning in Image Processing and Scientific Computing

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Message from the Guest Editors

Recent advancements in the application of deep neural networks in large-scale visual recognition challenges, as well as in other domains, has led to an explosion of research in the field of deep learning. Deep-learning-related research is revolutionizing various industries and domains. Some ongoing research areas include the theoretical understanding of generalization, interpretable deep learning, robustness and adversarial attacks, training efficiency and transfer learning, etc.

The primary objective of this Special Issue is to address cutting-edge advancements in the rapidly evolving field of deep learning. In particular, we invite authors to submit papers that showcase the robustness and generalizability of their models or methodologies. By gathering such diverse and innovative works, we aim to present a compelling collection that captures the forefront of deep learning research.

Potential topics include, but are not limited to, the following: general deep learning, deep learning architectures, trustworthy deep learning, image and video understanding, image and video synthesis, deep learning in imaging applications and deep learning for scientific computing.

Special Issue

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Message from the Editor-in-Chief

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