Special Issue

Machine and Deep Learning: Beyond Computational and Data-Related Limitations

Message from the Guest Editors

This Special Issue aims to investigate innovative solutions to overcome two major obstacles in current Al technology: the lack of properly labeled data and the lack of storage and computational capacity on lightweight and embedded systems. We encourage authors to submit papers within different domains with or without industrial applications. This Special Issue aims to cover recent advances in DNN architecture compression and edge deployment on the one hand, and advances in unsupervised learning, self-/semi-supervised learning, multimodal learning, explainable deep learning, active learning and continuous learning on the other hand. Reviews and surveys on the state-of-the-art DNN architectures are also welcomed. The topics of interest for this Special Issue include:

- DNN software compression;
- DNN hardware compression;
- DNN pruning and quantization;
- Knowledge distillation;
- Model deployment in edge and cloud architectures;
- Edge artificial intelligence;
- Unsupervised learning;
- Semi-supervised and self-supervised learning;
- Active learning;
- Explainable deep learning;
- Continual learning;
- Knowledge transfer;
- Lifelong learning.

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closed (30 June 2024)



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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

Editor-in-Chief

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