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Machine Learning Applications to Signal Processing

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Deadline for manuscript submissions:
closed (31 August 2023)

Message from the Guest Editors

Dear Colleagues,

Machine learning has emerged as a competitive approach, compared to traditional methods, for solving a broad range of signal processing problems including line spectral estimation, matrix completion, feature selection, dictionary learning, and so on. Advances in machine learning and deep learning techniques hold the potential to significantly accelerate information extraction and recovery. Thus, there is a growing interest in applying machine learning to facilitate understanding and solving signal processing problems.

The aim of this Special Issue is to seek submissions of original works that address the above and other important challenges of applying machine learning to signal processing problems. Topics covered in this Special Issue include but are not limited to:

Applications of machine learning in signal processing; Deep learning techniques for signal processing; Model-based deep learning for inverse problems; Machine learning for signal processing in compressed sensing; Matrix factorization/completion; Learning from multimodal data; Medical imaging analysis; Signal denoising; Structure/unstructured data processing.

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Message from the Editor-in-Chief

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