Special Issue

Recent Advances in Representation Learning

Message from the Guest Editors

The performance of any pattern recognition system heavily depends on finding a good and suitable feature representation space where observations from different classes are well separated. The main methods range from conventional hand-crafted feature design (SIFT, LBP, HoG, etc.) to dimensionally reduction techniques (PCA, LDA, FA, ISOMAP, LLE, etc.) and feature selection (wrapper, filter, embedded) in the past two decades, until the recent deep neural networks (CNN, RNN, etc.). Unfortunately, finding this proper representation is a challenging problem which different communities have taken a huge interest in, including the machine learning, data mining, and computer vision communities. This Special Issue aims to highlight advances in machine learning and pattern recognition.

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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 guest-edited by leading experts in selected topics of interest.

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