

Special Issue

Convolutional Neural Networks and Vision Applications, Volume II

Message from the Guest Editors

This Special Issue is dedicated to research related to the design, optimization, and implementation of machine-learning-based vision algorithms or convolutional neural networks that are suitable for real-time vision applications. General topics covered in this Special Issue include but are not limited to:

- Optimization of software-based vision algorithms;
- CNN architecture optimizations for real-time performance;
- CNN acceleration through approximate computing;
- CNN applications that require real-time performance;
- Tradeoff analysis between speed and accuracy in CNN;
- GPU-based implementations for real-time CNN performance;
- FPGA-based implementations for real-time CNN performance;
- Embedded vision systems for applications that require real-time performance;
- Machine vision applications that require real-time performance.

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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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