Special Issue

Convolutional Neural Networks and Vision Applications

Message from the Guest Editor

Many vision applications can benefit from lightweight and low-power consumption embedded vision systems. Basic low-quality image sensors can be found on systems from cell phones to entertainment game consoles to security systems to high-tech micro unmanned aerial vehicles. For many of these systems, the computational complexity of available vision algorithms prohibits them from being able to perform in real time. Processing speed is critical for visual inspection automation and mobile visual computing applications. Many powerful and sophisticated vision algorithms generate accurate results but require high computational power and resources and are not suitable for real-time or embedded applications. On the other hand, there are vision algorithms that perform at camera frame rates but with moderately reduced accuracy, which is arguably more applicable for real-time applications. This special issue is for research related to the design, optimization, and implementation of vision algorithms suitable for real-time embedded vision applications. Welcome to contribute!

Guest Editor

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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 guestedited by leading experts in selected topics of interest.

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