Special Issue

Beyond Monocular Computer Vision: Other Sensors, Multimedia and Multi-View Systems

Message from the Guest Editors

Computer vision was born and developed with monocular cameras, which laid the foundation for many early advancements in the field. However, the advent of innovative sensors such as depth cameras, event-based cameras, thermal cameras, and LiDAR and the integration of multimedia and multi-camera systems are now addressing the inherent limitations of monocular vision by providing richer and more dynamic data. This Special Issue welcomes contributions that explore recent advancements with innovative sensors like event cameras or depth sensors, as well as multi-camera systems, pushing the boundaries of what is possible with traditional computer vision. Submissions to this Special Issue are encouraged to provide recent advances by covering a range of topics of the following computer vision theory and applications:

- Depth sensors;
- Event-cameras and event-based sensors;
- Multi-camera systems and multi-view geometry;
- Multimedia systems;
- Machine learning applied to novel sensors;
- Light Detection and Ranging (LiDAR);
- TOF cameras;
- Thermal cameras;
- Ultrasound sensors;
- Multispectral/hyperspectral cameras;
- Scanning electron microscope (SEM);
- Omnidirectional cameras.

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

Editor-in-Chief

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