Special Issue

Sensing and Vision Technologies for Human Activity Recognition

Message from the Guest Editors

Human Activity Recognition (HAR) leverages machine learning from ubiquitous sensing or computer vision to understand the activity context and predict the intention of humans. In the past few decades, HAR has continued to help in seamlessly integrating technologies with daily life by providing computing services appropriately to the situational contexts. Recent development has seen a convergence of heterogenous modalities, especially combining complimentary modalities including sensing, imaging, and vision technologies, leading the path towards holistic HAR approaches. This Special Issue aims to highlight the state-of-the-art research in HAR, especially trans-domain methodologies combining different sensing and vision technologies.

- HAR systems and studies based on sensing or vision technologies;
- Sensor and vision fusion methods;
- Wearable and pervasive sensing;
- Common representations shared among heterogenous modalities;
- Cross-modality deep learning methods;
- Multi-modal simulations;
- Imaging techniques for sensing (e.g., tomography) in HAR;
- Reviews and studies regarding ethical aspects for sensing and vision in HAR;
- Sensor or vision data generation methods.

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Deadline for manuscript submissions

closed (24 December 2023)

Sensors

About the Journal

Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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