



Sensing and Vision Technologies for Human Activity Recognition

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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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Message from the Editor-in-Chief

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