Special Issue

Multimodal Sensing and Computing and Their Monitoring Applications

Message from the Guest Editors

In recent years, we have witnessed remarkable advancements in multimodal sensing technologies that combine different sensing modalities to achieve enhanced perception capabilities. This integration of multiple sensing technologies has enabled unprecedented monitoring applications across various domains including healthcare, human–computer interactions, smart environments, and autonomous systems. The convergence of these sensing technologies with advanced computing paradigms, particularly deep learning and federated learning, has further pushed the boundaries of what is possible in terms of accuracy, robustness, and privacy preservation. These multimodal systems can now detect, track, and recognize human activities, vital signs, and environmental changes with higher precision, even in challenging scenarios involving occlusions, movements, or multiple subjects. We particularly welcome contributions that explore the synergies between different sensing modalities and computing frameworks to address complex monitoring challenges. For detailed information, please visit here.

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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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