Special Issue

Multimodal Data Fusion Technologies and Applications in Intelligent System

Message from the Guest Editors

In many real-world systems, fusing data from different sensing modalities can facilitate inference and decision making, such as millimeter-wave radar and camera data for autonomous driving; synthetic aperture radar (SAR), lidar, and satellite data for remote sensing; magnetic resonance, X-ray, and ultrasound imaging data for medical applications; moisture, temperature, and chemical sensor data for environmental applications. While late-stage fusion, also known as decision fusion, techniques for multimodal data are attractive for their simplicity, they do not use the full potential of rich multimodal data. Hence, there is a growing interest in early-stage fusion techniques which can leverage the correlation between multimodal data to improve the quality of inference and decision making. Advances in machine learning, in particular deep neural networks, have been increasing the capacity of processing complex data, e.g., high-dimensional and heterogenous data from multimodal sources. Focusing on this timely topic of AI-enabled multimodal data fusion, in this special issue, we solicit articles presenting novel methods (architectures, algorithms) and applications.

Guest Editors

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Deadline for manuscript submissions

closed (31 May 2024)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/149233

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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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