Multimodal Data Fusion Technologies and Applications in Intelligent System

Guest Editors:

Dr. Yasin Yılmaz

Dr. Mehmet Aktukmak

Dr. Keval Doshi

Dr. Yoganand Balagurunathan

Deadline for manuscript submissions:
closed (31 May 2024)

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.

mdpi.com/si/149233

Special Issue

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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.

Author Benefits

Open Access : free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.
Journal Rank: JCR - Q2 (*Chemistry, Analytical*) / CiteScore - Q1 (Instrumentation)

Contact Us