



an Open Access Journal by MDPI

Recent Trends in Sensor Fusion Algorithms Using Intelligent Signal Processing Methods

Guest Editors:	Message from the Guest Editors
Dr. Hongtian Chen	Dear Colleagues,
Dr. Yiyang Chen	The increasing popularity of artificial intelligence (AI) has led to its application in various fields. With the widespread
Prof. Dr. Engang Tian	use of AI, sensor-fusion-powered signal processing
Prof. Dr. Hui Yu	methods have become extremely important. Al serves as the soft power source for cybernetic systems to perform various delicate tasks. The movement of robots is
Deadline for manuscript submissions: 31 October 2024	measured by multiple sensors, and the sensors provide data for subsequent motion to participate in a decision- making process based on data analysis, which forms a complete closed loop. AI can be applied for data processing and pattern recognition, and it allows

which forms a plied for data and it allows computers to learn without programming and process large amounts of data in a short period of time. This allows researchers to focus on certain tasks in greater depth. Potential topics for this Special Issue include, but are not limited to, the following:

- Al-powered sensor signal processing;
- Intelligent analysis and diagnosis methods;
- Optimization of intelligent control using sensor fusion;
- Explainable fault diagnosis methods for sensors;
- Computer vision-based sensing;
- Coordinated control of multiple sensors;
- Stability analysis of sensors using AI.





mdpi.com/si/162622





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Antonio J. Marques Cardoso

CISE—Electromechatronic Systems Research Centre, University of Beira Interior, Calçada Fonte do Lameiro, P-6201-001 Covilhã, Portugal

Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.

Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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), Inspec, and other databases.

Journal Rank: JCR - Q2 (Engineering, Mechanical) / CiteScore - Q2 (Control and Optimization)

Contact Us

Machines Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/machines machines@mdpi.com X@Machines_MDPI