Special Issue

Multi-Criteria Optimization of Electronic Intelligence Sensors Data Processing

Message from the Guest Editors

An idea of ELINT (Electronic Intelligence) class systems is based on an acquisition, a deinterleaving, a main lobe and a particular pulse feature extraction, a classification, and an identification of radar emission. These are electronic signals that are not used in communication between people; therefore, they do not carry voice messages or text messages. A dynamic development in the artificial intelligence field provides methods that, through an adaptation, allow for an improvement of particular stages of the ELINT data processing process. In terms of optimizing the mentioned activities, a set of important objective functions includes the following: minimizing the data processing time, maximizing the correctness of results, and maximizing the security of data used in the process of learning the artificial intelligence algorithms. The goal of this Special Issue is to converge competences of specialists from various fields: artificial intelligence, data science, sensors, and signal processing in order to gather the latest and the best practice experiences constituting a relevant contribution to the current state of art.

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Deadline for manuscript submissions

31 May 2026

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/245812

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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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