Special Issue

AI-Powered RF Sensing and Signal Intelligence: Advances in Detection and Classification Techniques

Message from the Guest Editor

Recent advances in artificial intelligence (AI), machine learning (ML), and signal processing have opened new frontiers in the field of radio frequency (RF) sensing and signal intelligence. This Special Issue aims to bring together cutting-edge research focused on the development of intelligent systems capable of detecting, classifying, localizing, and interpreting RF signals in complex and dynamic environments. We welcome original research and review articles exploring AI-powered approaches to signal detection, spectral analysis, source identification, and RF-based threat monitoring. Topics of interest include, but are not limited to, deep learning for RF classification, spectrogram-based methods, real-time signal intelligence systems, and the use of AI in non-cooperative sensing scenarios, such as drone detection or electronic surveillance. For detailed information, please visit here.

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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.

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