

## Special Issue

# Radio Frequency AI/ML (RF AI/ML) for Wireless Spectrum Sensing and Awareness

### Message from the Guest Editors

In recent years, the rapid growth in AI/ML technologies in other modalities (images, text, audio, video, etc.) has led to an increased interest in these technologies for use in the radio frequency domain. While this field of research is becoming ever more popular, primarily due to its promise in solving commercial spectrum scarcity issues and its inherent importance in military communications, a vast majority of the research to date has been focused on the transfer of these technologies/solutions directly to RF applications. In this Special Issue, we will collate original research on recent advances, technologies, solutions, applications, and challenges in the field of radio frequency spectrum sensing and awareness that go beyond transfer learning and investigate novel research from an RF-domain-centric perspective. Potential topics include, but are not limited to, the following:

- RF AI/ML Applications
- RF AI/ML Datasets
- RF AI/ML Security
- RF AI/ML Trust

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### Guest Editors

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### Deadline for manuscript submissions

1 September 2026



## Sensors

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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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