Special Issue

Artificial Intelligence for Acoustics and Audio Signal Processing

Message from the Guest Editors

This Special Issue aims to explore and extend the field of spectrogram-based and time–frequency neural recognition, inviting high-quality original research contributions related (but not limited) to

- AI and deep learning applied to time–frequency analysis of audio signals;
- Spectrogram-based classification and pattern recognition;
- Audio signal preprocessing for neural network input;
- Audio-based anomaly or defect detection in industrial or cultural heritage domains;
- Speech-based emotion or health state recognition;
- Music genre recognition and melody and song generation;
- Multimodal fusion involving time–frequency features;
- Explainable AI for time–frequency models;
- Novel architectures for spectrogram understanding (e.g., CNNs, Transformers, Attention models).

Guest Editors

Dr. Michele Lo Giudice
Prof. Giosue Caliano
Prof. Alessandro Salvini

Deadline for manuscript submissions

1 September 2026

MDPI

About the Journal

Message from the Editor-in-Chief

The concept of *Information* is to disseminate scientific
results achieved via experiments and theoretical results
in depth. It is very important to enable researchers and
practitioners to learn new technology and findings that
enable development in the applied field.

Information is an online open access journal of
information science and technology, data, knowledge
and communication. It publishes reviews, regular
research papers and short communications. We invite
high quality work, and our review and publication
processing is very efficient.

Editor-in-Chief

Prof. Dr. Willy Susilo
School of Computer Science and Software Engineering, University of
Wollongong, Northfields Avenue, Wollongong, NSW 2522, Australia

Author Benefits

Open Access:
free for readers, with article processing charges (APC) paid
by authors or their institutions.

High Visibility:
indexed within Scopus, ESCI (Web of Science), Ei
Compendex, dblp, and other databases.

Journal Rank:
JCR - Q2 (Computer Science, Information Systems) /
CiteScore - Q2 (Information Systems)