# 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.

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### Editor-in-Chief

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