



## Multimedia Signal Processing: Theory, Methods, and Applications

Guest Editors:

**Dr. Iman Ardekani**

School of Computing, Electrical  
and Applied Technology, UNITEC  
Institute of Technology,  
Auckland, New Zealand

**Dr. Waleed Abdulla**

Faculty of Engineering,  
Department of Electrical,  
Computer and Software  
Engineering, The University of  
Auckland, Auckland 1010, New  
Zealand

Deadline for manuscript  
submissions:

**20 August 2024**



### Message from the Guest Editors

This Special Issue focuses on exploring the diverse realm of multimedia signal processing, covering the various theories, methods, and applications in this dynamic field. This collection of research papers spans multiple topics, including acoustic signal processing, image processing, IoT, and machine learning.

Within acoustic signal processing, the Special Issue showcases advancements in areas such as audio coding, speech recognition, and music analysis.

Within image processing, the Special Issue highlights breakthroughs in image and video coding, content analysis, and computer vision.

Furthermore, this Special Issue acknowledges the growing influence of the Internet of Things (IoT) and machine learning in multimedia signal processing. It accepts studies on IoT-based multimedia systems, sensor data fusion, and intelligent multimedia analytics. Contributions related to machine learning algorithms for multimedia analysis, classification, and retrieval are also featured, illustrating the impact of AI techniques on multimedia signal processing.

This Special Issue aims to foster collaboration, inspire innovation, and pave the way for future advancements in multimedia signal processing.



an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Giulio Nicola Cerullo**  
Dipartimento di Fisica,  
Politecnico di Milano, Piazza L.  
da Vinci 32, 20133 Milano, Italy

## Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

## Author Benefits

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

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q2 (*Engineering, Multidisciplinary*) / CiteScore - Q1 (*General Engineering*)

## Contact Us

---

Applied Sciences Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/applsci](http://mdpi.com/journal/applsci)  
[appls@mdpi.com](mailto:appls@mdpi.com)  
[X@Appls](#)