

Special Issue

Artificial Intelligence Techniques for Audio, Image, and Multisensory Signal Processing

Message from the Guest Editor

This Special Issue focuses on the transformative impact of AI, including machine and deep learning, on signal processing. It highlights the shift from traditional model-based methods to data-driven approaches for analyzing complex audio, image, and multimodal signals. We invite original research and reviews on cutting-edge algorithms and applications. Topics include deep learning for audio/speech and image/video processing, multimodal fusion, sound event detection, computer vision, signal enhancement, and biomedical imaging. Emerging areas like explainable AI, edge computing, transfer learning, and trustworthy AI systems are also of key interest. The issue aims to bridge theoretical advances and practical applications, fostering interdisciplinary dialogue. We seek contributions demonstrating improved performance, efficiency, or interpretability in signal processing tasks.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Big Data and Cognitive Computing (BDCC) is a scholarly online journal which provides a platform for big data theories with emerging technologies on smart clouds and exploring supercomputers with new cognitive applications. It is a peer-reviewed, open access journal that publishes high quality original articles, reviews and short communications. The primary aims of this journal are to encourage contributions of high quality scientific papers relating to data management and analytics in industry, such as manufacturing, healthcare, education, media and business, data mining, and cognitive science. There is no restriction on the maximum length of the papers.

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