

Special Issue

Speech Recognition: Techniques, Applications and Prospects

Message from the Guest Editors

Speech recognition technology has emerged as a transformative force across industries, revolutionizing human-computer interaction and enabling unprecedented accessibility. This special issue invites cutting-edge research and reviews exploring the latest advancements, challenges, and future directions in speech recognition systems both from academia and industry.

We welcome contributions addressing novel algorithms, including deep learning architectures, acoustic and language modeling innovations, and robustness improvements for noisy or multilingual environments. Submissions may also investigate real-world applications in healthcare, education, customer service automation, and voice-activated smart devices. Prospective authors are encouraged to explore emerging trends like low-resource language support, multimodal integration, and edge computing for real-time processing. Interdisciplinary studies bridging linguistics, neuroscience, and AI are particularly welcome.

Join us in shaping the next frontier of voice-driven innovation!

Guest Editors

Prof. Dr. Xiang Xie

Prof. Dr. Pengyuan Zhang

Dr. Ya Li

Deadline for manuscript submissions

31 October 2025



Applied Sciences

an Open Access Journal
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Impact Factor 2.5
CiteScore 5.5



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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.

Editor-in-Chief

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