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Advances in Mathematical Methods in Signal Processing and Its Applications

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Deadline for manuscript
submissions:

30 December 2024

Message from the Guest Editor

Dear Colleagues,

Advances in data collection technology, continuing improvements of the cost advantages and processing capabilities of computing technology (according to Moore’s Law), as well as aggressive upscaling of the digital world through considerable increases in parallelism and architecture optimizations generate many potential advantages in the signal processing applied to the noisy, high-volume, high-resolution and complex data structure sets collected from different sources or sensors.

In this Special Issue, the following non-exhaustive list of topics promoting solutions to the mathematical challenges in signal processing—from both fundamental and applied research perspectives—will be addressed: computer vision, medical imaging, speech, natural language processing, human–computer interaction (HCI), brain–computer interaction (BCI), graph signal processing, statistical signal processing, sparse signal processing, genomic signal processing, networks of sensors, Internet of Things (IoT), phased radar array, multi-antenna systems, cellular networks, spectrum and energy-efficient communication, multi-user signal processing, seismology, etc.



mdpi.com/si/129369

Special Issue