

Special Issue

Mathematical Foundations and Distributed Applications of Adaptive Signal Processing

Message from the Guest Editors

Adaptive signal processing (ASP) has become a cornerstone of modern distributed systems, enabling real-time analysis and decision-making in dynamic environments. This Special Issue seeks high-quality contributions that bridge mathematical theory (e.g., optimization, fractional calculus, stochastic processes) with distributed applications (e.g., sensor networks, IoT, biomedical systems). Topics include algorithmic stability, energy-efficient implementations, and robustness in non-stationary environments. By uniting theoretical advances and practical case studies, this Special Issue aims to address critical challenges in scalability, security, and convergence for next-generation adaptive systems.

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Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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