Special Issue

Advanced Computational and Intelligent Methods in Signal Processing

Message from the Guest Editor

The challenges posed by high dimensionality, non-stationarity, noise, and complex nonlinear patterns demand solutions that go beyond traditional techniques, drawing on advances in numerical computation, deep learning, machine learning, and optimization theory. The development and theoretical analysis of these advanced computational and intelligent methods are crucial for building efficient, robust, and interpretable systems. By exploiting the mathematical structures of both algorithms and signals, we can design scalable models, establish performance guarantees, and gain deeper insights into the data they process. This Special Issue gathers contributions showcasing the development and application of advanced computational and intelligent methods for signal processing. Special emphasis is placed on the mathematical foundations of these methods—including optimization, linear algebra, statistical learning, and information theory—as well as on the design of efficient algorithms capable of solving large-scale and complex signal processing problems.

Guest Editor

Dr. Ping Lang

School of Integrated Circuits and Electronics, Beijing Institute of Technology, Beijing 100081, China

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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.

Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and Informatics, De Montfort University, The Gateway, Leicester LE1 9BH, UK

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