Special Issue

Applied Machine Learning and Soft Computing

Message from the Guest Editor

Nowadays, machine learning (ML) plays a vital role in scientific and technological progress, offering tools for learning, knowledge discovery, and decision-making across diverse domains. Applied machine learning (AML) emphasizes implementing ML algorithms to address practical engineering challenges, with key aspects including domain-specific applications, engineering integration, and evolving trends. Closely related, soft computing (SC) uses computational methods that tolerate uncertainty and imprecision to deliver robust, cost-effective solutions. Integrating AML and SC drives advances in robustness, explainable AI, and efficiency optimization. Emerging approaches—such as hybrid and deep learning, ensemble techniques, and intelligent optimization—enable models with higher accuracy. As a response to the recent advancements, the objective of this Special Issue is to present a collection of notable methods and applications of recent theoretical and computational studies on AML and SC. We invite scientists from all around the world to contribute to developing a comprehensive collection of papers on the progressive and high impact of AML and SC.

Guest Editor

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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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