

Special Issue

Machine Learning for Wireless Communications: From Theoretical Modelling to Novel Applications

Message from the Guest Editor

With the advent of sweeping breakthroughs in machine learning (ML) and AI technologies, the field of wireless communications has seen a rapid rise in the use of these technologies in recent years. Machine learning is considered a key enabler of disruptive innovation and capabilities envisioned for the wireless communication networks in the 6G standard. With seemingly boundless potential, its future will hinge on the successful convergence of theoretical development and pragmatic considerations. Emphasizing mathematical underpinnings, this Special Issue solicits research papers on advances in machine learning technologies for wireless communications, ranging from theoretical modelling and algorithmic developments to novel applications in specific contexts.

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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