

Special Issue

Artificial Intelligence and Intelligent Signal Processing in Precision Measurement

Message from the Guest Editors

With the rapid development of artificial intelligence and intelligent signal processing technologies, significant progress has been made in precision measurement and instruments, and they have been widely applied in intelligent manufacturing, structural health monitoring, fault diagnosis...

This Special Issue addresses data differences in various engineering applications by highlighting theories and methods based on artificial intelligence and signal processing. A complete process system integrating data anomaly judgment, preprocessing, feature extraction and enhancement, model selection and construction, and training and validation is established, aiming to meet the intelligent and reliable detection requirements of different engineering applications.

This Special Issue focuses on the theories, methods and technologies of artificial intelligence and intelligent signal processing, as well as their applications in precision measurement and instruments. It provides a platform for the exchange of innovative ideas and intelligent methods and technologies across different disciplines and promotes the application of precision measurement and instruments in various fields.

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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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