Special Issue

Advances in Trustworthy and Robust Artificial Intelligence

Message from the Guest Editors

Artificial intelligence (AI) is rapidly evolving, with significant advancements in machine learning, deep learning, and autonomous systems. As AI models are increasingly deployed in critical sectors such as healthcare, finance, autonomous driving, and cybersecurity, ensuring that these systems are robust, reliable, and trustworthy is crucial. This Special Issue aims to explore several themes, including but not limited to uncertainty quantification, fairness-aware machine learning, adversarial robustness, explainable and interpretable AI, secure AI systems, and ethical AI frameworks. We welcome submissions that address these challenges from both mathematical and computational perspectives, including theoretical analyses, algorithm development, empirical studies, and real-world applications. Potential article types include original research papers, systematic reviews, and case studies, with a focus on interdisciplinary contributions that leverage mathematics to enhance the trustworthiness and robustness of AI systems. We look forward to receiving your contributions. Dr. Chen Zhao

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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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