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Advanced Analyses and Algorithms for Trustworthy AI Systems and Applications

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Message from the Guest Editors

Increasing forms of attack on AI systems have been witnessed with the rapid development of AI applications in every domain. All the vulnerabilities of existing AI systems can lead to serious social and economic consequences. Therefore, building trustworthy AI systems and applications has become an inescapable challenge in both academia and industry.

In this Special Issue, we encourage authors to target the construction of AI systems and applications, considering trustworthiness in various dimensions, such as security, robustness, non-discrimination, fairness, explainability, privacy, auditability, accountability, and environmental well-being.

The Special Issue invites submissions on all topics of analyses, algorithms, and models for trustworthy AI systems and applications, including, but not limited to, federated learning, privacy-persevering computation, causal learning, natural language processing, computer vision, graph neural networks, social network analysis, biometric data analysis, recommender systems, facial and voice recognition systems, autonomous driving systems, financial trading systems, power and energy management systems, and healthcare information systems.

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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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