

Special Issue

Towards Reliable, Trustworthy and Privacy-Preserving Mathematical Modeling and Data Readiness for Foundation Models with Industrial Applications

Message from the Guest Editors

In this Special Issue, we focus on (but not be limited to) the following topics:

- Data acquisition, processing, preparation, and anonymization for foundation models;
- Data integration and aggregation for foundation models;
- Mathematical modeling to achieve reliability, trustworthiness, and privacy in foundation models;
- Mathematical solutions for data synthesis, data augmentation, data selection, and data mixing;
- Mathematical solutions for data quality evaluation, data valuation, data pricing, and the data market;
- Privacy preservation and confidentiality protection for foundation models;
- Poisoning, backdoor attacks, adversarial attacks, and jailbreaking data detection, filtering, and cleaning;
- Advanced threat models: cybercrime, cyber-espionage, and security vulnerabilities;
- Designing reliable, trustworthy, and private foundation models;
- Data exploration and wrangling for the IoT;
- Multimodal data readiness for multimodal foundation models.

Guest Editors

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About the Journal

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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