

Special Issue

Feature Papers in High Performance Tamper Resistant Heterogeneous Parallel Computing Infrastructures

Message from the Guest Editors

Multicore, multiprocessor, distributed, and decentralized computing have normalized parallel computing for all useful applications. The rise in processors for each computing service challenges deliverable performance, reliability, and security. It seems evident that the traditional “client-server” computing models simply did not cover all that is needed to make a server efficient, reliable, and secure. A server’s performance seems directly related to reliability, since, mathematically, zero reliability means zero performance. As the industry has embraced the Open-Source software creation model, tamper resistance has become a serious concern for mission-critical services. Security of Open-Source software is mostly an afterthought, except for cryptographic projects like Blockchains. These rising concerns demand active discussions and research into potential solutions. This Special Issue seeks original contributions in the above-mentioned areas. Mathematics can help quantify our progress but is not strictly required since serious engineering effort can always be justified eventually in mathematics or multiple other disciplines such as physics, chemistry, or biology.

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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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