

Special Issue

Mathematical Methods for Security and Privacy in Vehicular Digital Twin Networks

Message from the Guest Editor

Vehicular digital twin networks (VDTNs) represent a transformative paradigm in intelligent transportation systems, enabling real-time synchronization between physical vehicles and their virtual counterparts to optimize performance, enhance safety, and enable predictive maintenance. However, the integration of digital twin technology into vehicular networks introduces significant security and privacy challenges, including data integrity, confidentiality, and the risk of cyber-physical attacks. Ensuring the security and privacy of VDTNs is critical to safeguarding sensitive data, maintaining user trust, and preventing disruptions that could compromise vehicle safety and network reliability. This Special Issue invites high-quality papers that explore how cryptographic technologies can be utilized to address the security and privacy challenges in VDTNs. We invite researchers to submit original research papers and reviews that contribute to the development of secure communication protocols, privacy-preserving mechanisms, and trust management frameworks tailored for VDTNs.

Guest Editor

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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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