Special Issue

Algorithms for Cyber Defense: From Cryptography to Behavioral Analysis

Message from the Guest Editor

The aim of this Special Issue is to explore the full spectrum of algorithms used in modern cyber defense. We welcome both theoretical and applied contributions in areas such as encryption and decryption methods, authentication schemes, secure key exchange, anomaly detection, static analysis, intrusion detection, reverse engineering of malicious code, adversarial learning, and security-aware AI models. We encourage submissions that bridge formal algorithm design with practical implementations in security-critical systems, ranging from embedded devices to large-scale infrastructure. This Issue serves as a platform for engineers, data scientists, and security researchers to share breakthroughs that redefine digital defense.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Algorithms are the very core of Computer Science. The whole area has been considered from quite different perspectives, having led to the development of many sub-communities: Complexity theory (limitations), approximation or parameterized algorithms (types of problems), geometric algorithms (subject area), metaheuristics, algorithm engineering, medical imaging (applications), indicates the range of perspectives. Our journal welcomes submissions written from any of these perspectives, so that it may become a forum for exchange of ideas between the corresponding scientific subcommunities.

Editor-in-Chief

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