

Special Issue

The Future of Cryptography: Trends and Emerging Technologies

Message from the Guest Editors

This special issue examines the cryptographic foundations required for an impending convergence of large-scale quantum computing; ubiquitous edge-to-cloud connectivity; and increasingly heterogeneous hardware. We invite manuscripts that push forward post-quantum cryptography; covering security analyses; algorithmic optimization; migration strategies; and combinations with quantum-key-distribution schemes to achieve layered; information-theoretic defences. Equally welcome are contributions on functional-encryption primitives such as homomorphic encryption; secure multiparty computation; and zero-knowledge proofs; which enable; for instance; privacy-preserving analytics; verifiable computation; and resilient blockchain protocols. The issue will highlight lightweight cryptography for resource-constrained IoT devices; confidential-computing enclaves that realize “encryption-in-use;” and new approaches to cryptographic agility for 6G edge networks.

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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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