

Special Issue

Advancing Zero Trust for 6G Security

Message from the Guest Editors

The advent of sixth-generation (6G) networks promises transformative advancements in global connectivity, enabling seamless integration of billions of devices, humans, and intelligent systems across space, air, and ground. However, the inherent openness, ultra-large scale, and heterogeneity of 6G amplifies unprecedented security challenges. Traditional perimeter-based defenses are becoming increasingly inadequate against sophisticated threats. Zero Trust Architecture (ZTA), with its foundational principle of "never trust, always verify", has emerged as a cornerstone for securing hyperconnected environments in 6G.

This Special Issue aims to bridge the gap between ZTA's potential and 6G's unique demands, focusing on novel methodologies, cross-disciplinary innovations, and solutions to unresolved challenges in dynamic, large-scale networks. Topics of interest include, but are not limited to, the following:

- Real-time trust evaluation in ultra-large-scale networks.
- Low-latency trust evaluation in mission-critical applications (e.g., autonomous systems).
- Trust mechanisms for satellite-terrestrial integration and UAV swarm coordination.

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