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Security, Privacy and Trust in 6G Communication Networks

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Message from the Guest Editors

Fifth-generation (5G) networks will reach their limits around 2030 given the current trend of annual growth in mobile traffic. Therefore, industrial standards, developing organisations, and academia are gearing up their research efforts for the anticipated six-generation (6G) networks, which will be required to meet the demands of mobile communications in 2030 and beyond. The sixth generation is envisaged to provide near 100% global coverage, lower latency, and higher connection density in comparison to 5G. Naturally, 6G will encompass multidimensional, multitiered, and heterogenous networks with complex requirements for service provisioning, control, and security. It will not be bound by terrestrial communication networks and will integrate aerial and satellite communications to achieve a space–air–ground communication network (SAGIN).

To operate effectively across multiple network domains and segments, security, privacy, and trust must be embedded in the 6G network architecture to ensure its resilience. Blockchain is an emerging technology that can provide high security, privacy, and transparency to network use cases.



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Special Issue



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Message from the Editor-in-Chief

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