

Special Issue

Trustless Biometric Sensors and Systems

Message from the Guest Editors

Biometrics and blockchain are two disruptive technologies that promise to facilitate more streamlined and secure authentication and identity management in the digital world. The secure and private verification of biometric templates in the blockchain and/or delegation of feature extraction and matching processes will make it even more difficult to circumvent biometric authentication. On the other hand, biometrics can streamline and secure blockchain identities; enable new governance models, smart devices, and wallets; and propose new use cases where security and usability are fully balanced. The Special Issue will explore the potential of blockchain for trustless biometric systems, examine how the two technologies can benefit from each other, and discuss opportunities and challenges with the goal of advancing understanding of the synergies between the two fields. Topics include, but are not limited to, the following: smart biometric sensors and systems, privacy-preserving biometric methods, decentralised matching methods, delegating computations, the protection of biometric templates and privacy, and smart contracts for the trust management of biometric data.

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