Special Issue

Biometric Recognition System Based on Iris, Fingerprint and Face

Message from the Guest Editor

Biometric recognition allows us to authenticate individuals in an automatic, reliable, and convenient manner. Thus, biometric systems have been deployed in the last decade both in high security areas and on mobile devices. Among the most used biometric characteristics stand face, iris, and fingerprint: the former due to the easiness of the acquisition process, and the latter (i.e., iris and fingerprint) due to their higher recognition performance and stability over longer periods of time. As any other security technology, biometric systems are not perfect. Recent research efforts have been directed towards improving recognition performance under uncontrolled conditions , attack detection, bias, trustworthiness, or explainability of the underlying machine/deep learning models. The scope of this special issue includes, but is not limited to:

- New sensors for face, iris, and fingerprint biometric data acquisition
- New system design for face-, iris-, and fingerprint-based recognition systems
- Preprocessing, indexing, and recognition of fingerprint, iris, and facial samples
- Presentation attack detection techniques for face-, iris-, and fingerprint-based biometrics

Guest Editor

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