Special Issue for Recent Patents on Computer Science

Guest Editor: Steven Lawrence Fernandes

Recent Advances in Biometrics for Security Applications

Aims & Scope:

Biometric systems for security applications include advances in fundamental signal processing, image processing, pattern recognition, statistical and mathematical techniques relevant to biometrics, new algorithms and/or technologies for biometrics, analysis of security applications, and analysis of the social impact of biometrics technology. Areas of coverage also include biometrics based on voice, fingerprint, iris, ocular, face, handwriting, gait and other modalities, as well as multi-modal biometrics and new biometrics based on fusion of statistical techniques, sparse representation, neural networks, genetic algorithms, artificial intelligences.

Key words:

Biometrics, signal processing, image processing, pattern recognition, on voice, fingerprint, iris, ocular, face, handwriting, gait, statistical techniques, sparse representation, neural networks, genetic algorithms, artificial intelligences.

Topics Covered in this Special issue:

- Biometric standards and interoperability
- Security analysis of biometric components or systems
- Aging of reference data
- 3D/4D Face recognition
- Biometric encryption
- Fingerprint recognition
Identity management with biometrics technologies
Template protection
Palmprint recognition
Derivation of cryptographic keys from biometrics
Ear recognition
Biometric middleware
User interface design for biometric systems
Cancellable biometrics
Palm vein recognition
Anti-spoofing methods
Biometric performance measurement
Gait recognition
DNA biometrics
Multimodal and multi-biometrics (sensor, modality, sample, feature, score and decision fusion)
Hand geometry
Security and privacy
Iris recognition
Novel biometrics
Speaker recognition
Finger-knuckle recognition
Gesture recognition
Soft biometrics
Writer recognition
Social impact analysis of biometric techniques
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Schedule:

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