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Paper Submission Deadline: June 25, 2018

Paper submission Link: https://easychair.org/conferences/?conf=iccs20181

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Call for Papers

Special Session: Biometrics and Forensics
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Biometrics and Forensics

Biometrics provides efficient and reliable solutions to recognize individuals. With increasing number of identity theft and miss-use incidents we do observe a significant fraud in e-commerce and thus growing interests on trustworthiness of person authentication. Nowadays we find biometric applications in areas like border control, national ID cards, e-banking, e-commerce, e-health etc. Large-scale applications such as the European Union SmartBorder Concept, the Visa Information System (VIS) and Unique Identification (UID) in India require high accuracy and also reliability, interoperability, scalability and usability. Many of these are joint requirements also for forensic applications.

Multimodal biometrics combined with fusion techniques can improve recognition performance. Efficient searching or indexing methods can accelerate identification efficiency. Additionally, quality of captured biometric samples can strongly influence the performance. Moreover, mobile biometrics is an emerging area and biometrics based smartphones can support deployment and acceptance of biometric systems.

However, concerns about security and privacy cannot be neglected. The relevant techniques in the area of presentation attack detection (liveness detection) and template protection are about to

supplement biometric systems, in order to improve fake resistance, prevent potential attacks such as cross matching, identity theft etc.

The session invites research in the areas of advanced biometric technologies, feature extraction and matching algorithms, performance evaluation and biometric security, evaluation of the social impact of biometrics technology and other emerging trends in biometrics research.

- Identity management and biometrics
- Secure transactions and consumer biometrics
- Biometrics and forensics
- Novel Biometric Methods
- Biometric Technologies for Security
- Feature Extraction and Matching Algorithms
- Biological Security Technologies
- Face Recognition Systems
- Signature Recognition Systems
- Biometric analysis of crime scene traces and their forensic interpretation
- Forensic behavioral biometrics
- Soft Biometrics
- Multimedia forensics
- Integrity verification and authentication of digital content
- Watermarking schemes for ownership identification, proof and copy control
- Steganography and steganalysis
- Combination of multimodal biometrics with other forensic evidence
- Biometric based cybercrime investigation
- Advances in biometric security systems
- Biometric devices and algorithms
- Public sector biometrics and borders
- Liveness detection and vulnerability assessments
- Biometric and non-biometric data de-identification
- Ethical and societal implications of emerging forensics biometrics