

CALL FOR PAPERS
Special Issue on “Biometric Security for Mobile Computing”
Wiley’s Security and Communication Networks Journal

Security is a key issue in many network based applications. Mobile computing environment has further compounded this challenge due to the high mobility of the mobile devices and limited onboard computing resources. Traditional security mechanisms are either knowledge or possession based. Knowledge-based security mechanisms rely on what you know such as a password or a PIN (personal identification number). Possession-based mechanisms rely on what you possess such as a token. The fundamental problem with these conventional security mechanisms is that they do not verify the genuine users directly. Also these mechanisms suffer from a usability perspective due to the need of multiple secure accounts.

Topics of Interest

Biometric security is emerging as a promising solution to above problems. Biometrics-based authentication schemes use biological traits such as fingerprints, face, iris, hand-geometry, palm-prints, etc., which are unique for people. Although many biometric security applications have been found in real-life, its market penetration rate is still far below its potential. One major factor is that many technological challenges remain unresolved. The goal of this special issue is to present advanced solutions addressing these challenges. Original contributions are solicited in all relevant biometric security issues, including but not limited to:

- Core biometric-based recognition technologies such as fingerprint recognition, face recognition, iris recognition, keystroke dynamics recognition, signature recognition and voice recognition
- Legal/Regulatory issues relevant to biometrics applications
- Privacy protections
- Computing resource restrained biometric-based security technologies
- Biometrics-based sensor technologies
- Multimodal biometrics
- Biometric database indexing
- Mobile computing oriented biometric technologies and applications
- Biometric sensor anti-spoof technologies
- Biometric security such as mobile template protection, biometric key generation, cancellable templates, fuzzy vault, biometric encryption
- Usability issues and deployment experiences of biometric security technology for mobile computing

Instructions for Authors and Review Process

Submitted papers should not be under consideration elsewhere for publication and the authors must follow the guidelines for preparation of their manuscript. The language of the journal is English. 12-point type in one of the standard fonts such as Times, Helvetica, or Courier is preferred. The paper length should not exceed 30 pages in total including figures and tables. It is not necessary for authors to double-space their manuscript. Tables must be on separate pages after the reference list, and not be incorporated into the main text. Figures should be uploaded as separate figure files. For manuscript submission, authors should follow the guidelines described in the Section “For Authors” at <http://www.interscience.wiley.com/security>. Prospective authors should submit their paper online at <http://mc.manuscriptcentral.com/scn>. When submitting the papers, the authors

should make sure to choose the Manuscript type as “Special Issue”, enter the “Running Head” and the “Special Issue title” as “SCN-SI-012” and “Biometric Security”, respectively. A rigorous peer review process will be arranged. Full paper submission is required. Each paper will have at least 2 independent reviewers. The acceptance decision of each paper will be made collectively by the editorial board based on the reviewers’ comments and the guest editors’ collective views.

Important Dates

Papers submission deadline:	August 20, 2009 (Extended)
Notification of decisions:	October 1, 2009
Final Manuscript Due:	December 1, 2009
Publication:	Mid 2010

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