

**Call for Submissions to a *Special Issue* on:
ADVANCES IN MULTIMODAL BIOMETRIC SYSTEMS
Journal of Visual languages and Computing
Elsevier Press**

Biometric recognition or simply, biometrics, refers to the automatic recognition of individuals based on their physiological and/or behavioral characteristics. By using biometrics, it is possible to confirm or establish an individual's identity based on who she/he is, rather than by what she/he possesses (e.g., an ID card) or what she remembers (e.g., a password).

In addition to their extensive use in forensic sciences, biometric systems are rapidly being adopted in a wide variety of security applications such as ambient intelligence, electronic and physical access control, digital rights management, background checking and defense.

Although automatic security systems for identification have established themselves as a very important research area primarily due to the pronounced need for more reliable and secure authentication architectures in several civilian and commercial applications, biometric techniques have not been adequately addressed by the research community. For example multimodal biometric systems are relatively mature and have drawn considerable attention over the last 5 years, both from a research and a development point of view.

Undoubtedly, the simultaneous use of several biometrics and a 3D image analysis instead of 2-D can both improve the accuracy of an identification system for authentication overcoming some of the limitations of the traditional automatic personal identification technologies, but new algorithms and solutions are still required.

This special issue aims to focus on emerging biometric methods for multimodal systems comprehensively covering theoretical/practical aspects and to serve as a comprehensive record of recent advances in the field.

We invite original contributions that provide novel solutions to challenging problems. Submitted papers can address theoretical or practical aspects of progress and directions in biometrics research. Topics of interest include, but are not limited to:

- Biometric systems based on 3D information
- Biometric Modalities:
 - Emerging: ear, teeth, ground reaction force, ECG, retina, skin, DNA
 - Traditional: face, fingerprint, speech, signature
- Fusion schemes
- Multimodal biometric systems
- Quality measurement of biometrics data, Performance Metrics, Statistical Confidence Measures
- Temporal interclass and intraclass variability in biometric features.

SUBMISSION OF MANUSCRIPTS

There are two options available for JVLC Special Issue:

1. Authors are encouraged to submit their papers electronically by using online manuscript submission at <http://ees.elsevier.com/jvlc/>. **To ensure that all manuscripts are**

correctly identified for inclusion into the special issue, it is important that authors select "Special Issue: Multimodal Biometrics" when they reach the "Article Type" step in the submission process.

2. Authors can also submit their ps or pdf file to the Guest Editor at mnappi@unisa.it

Submitted papers must not have been previously published or be under consideration for publication elsewhere. All papers will be rigorously refereed. We anticipate the acceptance of 5 or 6 papers, through a very competitive selection process. Your manuscript should be contained within 30 pages, and consist of figures, tables, and double-spaced text.

IMPORTANT DATES

Manuscript Due	May 31, 2008
Major Revisions Due	October 1, 2008
Notification of Final Acceptance	December 01, 2008
Final Manuscript Due	February 01, 2009

GUEST EDITORS

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