

Biometric Technology for Human Identification IV (DS36)

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Prospective authors are required to submit an additional supplemental file (maximum of 6 pages including text, figures, and bibliography) to be considered for this conference.

Proceedings of this conference will be printed and available at the meeting.
On-site Manuscript Due Date: 15 January 2007

Positive and reliable automatic identification of humans is a very important topic in a number of law enforcement (e.g., criminal investigation), government (e.g., border control), and commercial (e.g., logical and physical access control) applications. Surrogate representations of identity such as passwords and physical tokens fail to provide satisfactory level of security in the current electronic era. Biometrics-based authentication techniques utilize physical and behavioral characteristics (e.g., fingerprint, iris, voice, gait, and face) to either verify a claimed identity (biometric verification) or establish the identity of an individual (biometric identification). With increased emphasis on security, there is a growing and urgent need to automatically identify humans both locally and remotely on a routine basis.

The purpose of this conference is to provide a scientific forum for researchers, engineers, system architects, and designers to report recent advances in this important area of human identification using biometrics. Suggested topics for presentation include, but are not limited to:

Biometric Modalities

- fingerprint and palmprint
- face (grayscale, color, thermography, 3D face shape, face video, etc.)
- iris

- hand geometry
- speech
- signature/handwriting
- gait
- key stroke dynamics
- multi-modal biometrics.

Biometric System Design and Evaluation

- sensing and data acquisition
- performance evaluation
- scalable biometric identification architectures
- real-time embedded biometric systems
- integration and deployment with smart cards
- template aging
- template protection, compromise detection, and revocation
- system inter-operability and integration issues
- liveness (spoof) detection
- individuality assessment.

Biometric Applications

- travel and transportation
- border control
- homeland security
- healthcare
- banking and finance
- access control
- airport security
- law enforcement
- automotive
- cybersecurity
- biometrics in government: e-authentication
- encryption and watermarking.

Submission of Abstracts for SPIE Defense and Security Symposium

Abstract Due Date: 25 September 2006

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IMPORTANT!

Submissions imply the intent of at least one author to register, attend the symposium, present the paper (either orally or in poster format), and submit a full-length manuscript for publication in the conference Proceedings.

By submitting your abstract you warrant that all clearances and permissions have been obtained, and authorize SPIE to circulate your abstract to conference committee members for review and selection purposes and if it is accepted, to publish your abstract in conference announcements and publicity

All authors (including invited or solicited speakers), program committee members, and session chairs are responsible for registering and paying the reduced author, session chair, program committee registration fee. (Current SPIE Members receive a discount on the registration fee.)

Instructions for Submitting Abstracts via Web

You are STRONGLY ENCOURAGED to submit abstracts using the “submit an abstract” link at:

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IMPORTANT! To ensure proper processing of your abstract, the SUBJECT line must include only:

SUBJECT: DS36, Prabhakar/Ross

Your abstract submission must include all of the following:

- 1. **PAPER TITLE**
- 2. **AUTHORS** (principal author first) For each author: First (given) name (initials not acceptable), Last (family) name, Affiliation, Mailing address, Telephone, Fax, and Email address.
- 3. **PRESENTATION PREFERENCE** "Oral Presentation" or "Poster Presentation."
- 4. **PRINCIPAL AUTHOR’S BIOGRAPHY** Approximately 50 words.
- 5. **ABSTRACT TEXT** Approximately 250 words.

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- 6. **KEYWORDS** Maximum of five keywords.

Conditions of Acceptance

- Authors are expected to secure funding for registration fees, travel, and accommodations, independent of SPIE, through their sponsoring organizations before submitting abstracts.
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