Biometrics Special Interest Group ◆IEEE
in cooperation with

Call for Papers

BIOSIG 2015

**14th International Conference
of the Biometrics Special Interest Group**

09.-11.09.2015, Darmstadt

http://www.biosig.de/biosig2015

Biometrics provides efficient and reliable solutions to recognize individuals. With increasing number of identity theft and miscues 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 Visa Information System (VIS) and Unique Identification (UID) in India require high accuracy and also reliability, interoperability, scalability, system reliability 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 BIOSIG 2015 conference addresses these issues and will present innovations and best practices that can be transferred into future applications. The conference is jointly organized by the Competence Center for Applied Security Technology (CAST), the German Federal Office for Information Security (BSI), the European Association for Biometrics (EAB), the ICT COST Action IC1106, the Joint Research Centre of the European Commission (JRC), the TeleTrusT-Association, the Norwegian Biometrics Laboratory (NBL), the Center for Advanced Security Research Darmstadt (CASED), the Fraunhofer Institute for Computer Graphics Research IGD, IET Biometrics Journal and the special interest group BIOSIG of the Gesellschaft für Informatik e.V. (GI). The conference will be technically co-sponsored by IEEE and papers will be added to IEEE Xplore. Authors of the best papers accepted at BIOSIG 2015 will be invited to submit an extended and enhanced revision of their paper to be considered for publication in a special issue of EURASIP Journal of Information Security:
http://jis.eurasipjournals.com/

We invite stakeholders and technical experts to submit original research papers. Industrial contributions presenting lessons learnt from practical usage, case study, recent results of prototypes, are also welcomed. Submissions should be full papers (max. 12 pages) in English. Each paper will be subjected of a double blind peer review. Authors should upload their submission at:
https://www.easychair.org/conferences/?conf=biosig2015
and use the GI format for which templates are available at:
http://www.gi.de/fileadmin/redaktion/Autorenrichtlinien/LNI-LaTeX-Vorlage.zip (LaTeX-template) and
http://www.gi.de/fileadmin/redaktion/Autorenrichtlinien/LNI-word-vorlage-en.doc (Word-template)
Note that those contributions, which will be accepted as poster presentation, will be limited to 8 pages.

Important Dates

30.05.2015	**Extended Deadline for submissions**
30.06.2015	Notification of authors via e-mail
31.07.2015	Deadline for final papers (ready for press)
07./08.09.2015	EAB-Research Project Conference
09.09.2015	Satellite Workshop TTT Working Group
09.09.2015	EAB European Research and Industry Award
10./11.09.2015	Main Conference: Talks and Presentations
11.09.2015	BIOSIG Best Paper Award

Invited Talks

Fares Rahmun, Bundesverwaltungsamt (BVA):
"Concepts for EU Smart Borders"
Josef Bigun, Intelligent Systems Laboratory, Halmstad University:
"Dense frequency and orientation maps in fingerprint processing"
Patrick Grother, National Institute of Standards and Technology (NIST): *"Time dependence in biometrics"*
Ajay Kumar, Hong Kong Polytechnic University:
"Finger recognition: from knuckles to 3D finger recognition"

Special Interest Group BIOSIG

The BIOSIG Group is dedicated to the foundations of biometrics. Its objective is to to link practical experience with academic innovations. Thus the Special Interest Group BIOSIG together with its co-organizers is providing with its annual conference a suitable platform to work on these issues.

Topics of Interest

Topics of the conference include but are not limited to: Biometric standards and interoperability, multimodal and multi-biometrics, security analysis of biometric components or systems, on-card comparison, fake resistance, liveness detection, aging of reference data, template protection, de-identification, user interface design for biometric systems, biometric performance measurement, sample quality, best practices, usability, continuous authentication, forensics and other emerging applications, ethical, legal and socio-technological aspects, biometrics for public administrations.

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