GI special interest group BIOSIG

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Bundesamt für Sicherheit in der Informationstechnik

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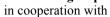JRC EUROPEAN COMMISSION

Call for Papers

BIOSIG 2012

06.-07.09.2012, Darmstadt

Gesellschaft für Informatik e.V. (GI)

www.cast-forum.de · www.biosig.org

Nowadays, biometric applications are growing rapidly and have reached different areas such as health monitoring, national ID cards, e-banking, e-commerce, etc. The European Union Visa Information System (VIS) and the Indian UIDAI System are large-scale deployed systems that validate the capabilities of today's biometric products. However deployed systems are still facing challenges towards better biometric performance, interoperability, system reliability and usability. New modalities and innovative acquisition techniques such as efficient 3D-face reconstruction taken from a distance, multi-spectral fingerprint images, in vivo imaging are important to increase the versatility of biometrics and its area of use. Moreover biometric recognition is now used as access control schemes towards mobile phones with its embedded sensors such that many convenience applications can now be served. Both in security and convenience applications efficient fusion techniques for multimodality systems are necessary to improve performance and robustness. When biometrics is chosen to increase the security of an access control system then the security of the biometric system itself must be investigated. This includes fake resistance of sensors, biometric information protection and crypto-biometrics to enhance the privacy of data subjects and to protect biometric references. Moreover, security analysis and certification of security properties need to be developed. Beyond that critical issues such as the compliance to standards and the early assessment of sample quality with standardized metrics systems are important to guarantee successful use of biometrics in practice.

The BIOSIG 2012 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 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, 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.

We invite stakeholders and technical experts to submit original research papers. Industrial contributions presenting lessons learned from practical usage, case study, recent results of prototypes, are also welcomed. Submissions should be full papers (max. 12 pages) in English. Authors should upload their submission to the EasyChair platform at:

https://www.easychair.org/account/signin.cgi?conf=biosig2012

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).

Important Dates

30.05.2012	Deadline for electronic submissions
30.06.2012	Notification of authors via e-mail
31.07.2012	Deadline for final papers (ready for press)
06./07.09.2012	Conference: Talks and Presentations

Special Interest Group BIOSIG

The BIOSIG Group is dedicated to the foundations of biometrics. In order to develop the topics in this context and to link practical experience with academic innovations 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

The topics of the conference include but are not limited to: Biometric standards and interoperability, multimodal and multi-biometrics (sensor, modality, sample, feature, score and decision fusion), security analysis of biometric components or systems, on-card comparison, fake resistance, liveness detection, aging of reference data, template protection, derivation of cryptographic keys from biometrics, biometric middleware, user interface design for biometric systems, biometric performance measurement, sample quality, best practices, usability, emerging applications, ethical, legal and socio-technological aspects, biometrics for public administrations.

Organizer

Organizer GI-BIOSIG and CAST e.V:
Christoph Busch: christoph.busch@cast-forum.de
Arslan Brömme: arslan.broemme@aviomatik.de
BIOSIG Webmaster: V.-P. Busch: **webmaster@biosig.de**

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