Call for Papers

BIOSIG 2021

20th International Conference
of the Biometrics Special Interest Group

15.-17.09.2021, Darmstadt, Germany

http://www.biosig.de

Biometrics Special Interest Group
in cooperation with
IEEE

Bundesamt für Sicherheit in der Informationstechnik
European Association for Biometrics eab
Fraunhofer IGD
ATHENE National Research Center for Applied Cybersecurity

Biometrics provides efficient and reliable solutions to recognize individuals. With increasing number of identity theft and miss-use 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 upcoming European Union Entry Exit System (EES), the Visa Information System (VIS) and Unique Identification (UID) in India require high accuracy and also reliability, interoperability, scalability 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 2021 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 TeleTrusT-Association, the Norwegian Biometrics Laboratory (NBL), National Research Center for Applied Cybersecurity (ATHENE), 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 (approval pending).



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.

We plan to organise the conference as hybrid event with on-site activities and options for remote participation.

Important Dates

30.05.2021	Deadline for submissions
26.07.2021	Notification of authors via e-mail
20.08.2021	Deadline for final papers (ready for press)
13.09.2021	Satellite Workshop TTT Working Group
13.-15.09.2021	EAB-Research Project Conference
15.09.2021	EAB European Research and Industry Award
16./17.09.2021	Main Conference: Talks and Presentations

Invited Talks

TBA

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.

Organizing Committee

General Chair: Marta Gomez-Barrero, Christoph Busch
Program Chairs: Antitza Dantcheva, Kiran Raja, Christian Rathgeb, Andreas Uhl
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