Call for Papers

BIOSIG 2024

23rd International Conference
of the Biometrics Special Interest Group

25.-27.09.2024, Darmstadt, Germany

http://www.biosig.de

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 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 now a well-established 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 presentation attack detection (liveness detection) and template protection are about to supplement biometric systems, in order to improve robustness to (deep) fakes and prevent potential attacks such as cross matching, identity theft, etc.

The BIOSIG 2024 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 Norwegian Biometrics Laboratory (NBL), National Research Center for Applied Cybersecurity (ATHENE), the Universität der Bundeswehr München, 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). Accepted papers will be submitted for inclusion into IEEE *Xplore* subject to meeting IEEE *Xplore*'s scope and quality requirements.

We invite stakeholders and technical experts to submit original research papers. Industrial contributions presenting lessons learnt from practical usage, case study, and recent results of prototypes, are also welcomed.

Important Dates

30.05.2024	Deadline for submissions
25.07.2024	Notification of authors via e-mail
25.08.2024	Deadline for final papers (ready for press)
23.09.2024	Satellite Workshop TTT Working Group
23.-25.09.2024	EAB-Research Project Conference
25.09.2024	EAB European Research and Industry Award
26./27.09.2024	Main Conference: Talks and Presentations

Invited Talks

Anderson Rocha, University of Campinas (Unicamp), "The Convergence Revolution and Digital Forensics: Exploring the Nexus of Bits, Atoms, Neurons, and Genes"

Anna Stratmann, Bundesamt für Sicherheit in der Informationstechnik (BSI), "OFIQ – The way forward in facial image quality assessment"

Héctor Delgado, Microsoft, "How reliable are the '99% accuracy' claims in audio deepfake detection?"

Special Interest Group BIOSIG

The BIOSIG Group is dedicated to the foundations of biometrics. Its objective is to 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, presentation attack detection, aging of reference data, template protection, de-identification, user interface design for biometric systems, biometric performance measurement, sample quality, best practices, usability, trustworthiness and explainability, continuous authentication, forensics, and other emerging applications, ethical, legal and socio-technological aspects, biometrics for public administrations.

Organizing Committee

General Chair: Marta Gomez-Barrero
Program Chairs: Meiling Fang, Kiran Raja, Christian Rathgeb, Massimiliano Todisco
Publication Chair: Fadi Boutros, Naser Damer
Publicity Chair: Victor Philipp Busch, Ana Filipa Sequeira
Local Chairs: Alexander Nouak, Siri Lorenz