

3rd EAB Research Projects Conference 2016

The European Association for Biometrics (EAB), the Joint Research Center (JRC) and numerous EU research projects, namely FIDELITY, FastPass, BEAT, FutureID, MobilePass, Eksistenz, PCAS, PIDaaS, ORIGINS, ABC4EU, INGRESS, HECTOS, BODEGA, OCTAVE, PROTECT and SpeechXRay jointly organized the 3rd EAB Research Projects Conference (EAB-RPC) to present research results and to discuss the benefits of this research for our European society. This third conference presented updates of the projects introduced in the first and second conference. Also new projects in the fields of border control, speaker identification, template protection and more were presented.

A highlight of the conference was the panel discussion on the first day. Experts from the biometric community analyzed in a panel the impact of the new EU regulation on privacy and data protection specifically regarding biometric research and deployment. This regulation was approved in April 2016 and needs to be implemented by 2018. The new General Data Protection Regulation (GDPR) requests from the data controller the implementation of proper technical and organizational measures for ensuring that, by default, only personal data which are necessary for each specific purpose, are processed. These implementations must follow *privacy by design* principles. The intention of promoting privacy by design is to inspire the next generation of big data system. Discussion in the panel indicated the need for joint meeting of engineers and privacy experts to build bridges and to understand each other's principles. A consensus was expressed to proceed beyond privacy impact assessment and to work on a societal impact assessment.

At the end of the conference a second panel discussed large-scale biometric deployments, including the Entry-Exit-System (EES) proposed as part of the European Smart Borders programme. The functionality of EES will be complementary to the current Visa-Information-System (VIS). The panel discussion began with one keynote talk from Ciaran Carolan representing the European Agency for the operational management of large-scale IT systems in the area of freedom, security and justice (eu-LISA) and another keynote talk from Richard Rinkens from the Directorate-General of Migration and Home affairs (DG Home). Moreover Rasa Karbauskaite (FRONTEX) participated. The intention of the keynote talks were to analyze the recent Smart Borders pilot and proposals and to identify needs for future research. The 2015-2016 Smart Borders pilot was introduced as the largest operational biometric test ever undertaken in terms of complexity and variety of international locations. Identified gaps included the limited through-put rate for ten finger capture, a realization reflected in the proposed use of four fingerprints in the new legislative proposals. Fast fingerprint acquisition is needed. Moreover there is currently no widely-used quality assessment metric for contactless scanners, as the recently released NFIQ2.0 (which corresponds to ISO/IEC 29794-4) was designed and trained to work only for optical scanners. Another gap identified was the lack of reliable methods to determine gender/age from facial-images, which would be beneficial to implementing binning concepts based on gender and age factors.

The presentations and complementary information from the speakers are available on the EAB-website at: <http://eab.org/events/program/104>

The conference was well attended, with 106 participants taking part, and thus a fourth edition is going to take place next year, which is scheduled for 18 and 19 September 2017. The EAB Research Projects Conference 2017 will again be co-located with the IEEE BIOSIG conference that will take place later that same week. Please read more at:

<http://eab.org/events/program/122>