National Institute of Standards and Technology

NPL National Physical Laboratory

INTERNATIONAL BIOMETRIC PERFORMANCE CONFERENCE

Evaluation and Performance of Biometric Technologies

May 3-5, 2016

Call for Papers

European Association for Biometrics eab Human Identity in Europe

NIST, NPL and the European Association for Biometrics invite talks for the IBPC conference on performance and testing of biometric systems. The forum will bring together evaluators, users, and technology providers to discuss performance in applications that embed biometric functions or component. The conference is focused on quantitative, applied biometrics, aiming to elicit information that guides policy, design, planning, and implementation of high performance biometric systems, particularly how systems are tested, certified, upgraded and improved. The conference specifically invites talks on border control, including ABC, and human involvement, Entry-Exit, and overall security. The conference aims to expand the use of biometrics by targeting operationally relevant themes, including design, procurement, and measurement.

Topic area I: Test design and analysis

Design of experiments, efficient testing, sequential testing
Beyond the DET: Novel tests and performance metrics
Statistical methods for efficiency, for prediction
Individual specific analysis, mixed effects
Longitudinal analysis, Effects of age and ageing.
Biometrics in infants, children, elderly
Face recognition in video: multiple persons, cameras, non-cooperation
Desirable, undesirable algorithm properties – 1:1, 1:N and forensics
Identification systems: metrics, limits, scalability, relation to 1:1
Desirable, undesirable sample properties, and quality estimation
Product vs. component tests, certification, interoperability
Performance of sensors and capture devices
Testing and standardization gaps; testing in academia
Usability and accessibility testing for biometrics

Topic area II: Operational aspects: Border Control

Recent concepts of operations, Entry and Exit
Recent test results
Expedited biometrics, expedited border control
Biometrics with non-habituated populations
Expedited traveler programs
Air, sea, land borders: Where are the bottlenecks
e-Passport solutions: When is it viable, needed and cost effective
Human performance: Checking identity after automated 1:1 or 1:N
Role of simulation
Security, attacks, tests, red teams

Topics area III: Mobile and remote authentication

Biometrics in security context: Spoofing, deterrence, risks, priors, costs, fallbacks, evaluation of multifactor authentication
Resilience under active attacks (vulnerability, spoofing)
Feasibility of common criteria testing of biometric components
Privacy enhancing technology, de-identification
Remote authentication: Challenges, assurance, testing
Retrospectives, lessons learned, long term perspective, critical appraisal of other programs, events, specifications.

Organizers:

Patrick Grother, Elham Tabassi, NIST
Tony Mansfield, National Physical Laboratory (NPL)
Christoph Busch, European Assoc. for Biometrics (EAB)

Intended speakers:

Research and development staff, system analysts, users, evaluators, planners, writers of technical specifications, standards developers and adopters.

Target audience:

Professionals concerned with biometric systems evaluation, procurement, deployment, maintenance, design, configuration, integration, standardization, research and development.

Important dates:

Feb 08 2016	Submission of abstract < 1 page
Feb 15 2016	Notification of acceptance
Apr 20 2016	Online registration closes
Apr 27 2016	Submission of slides + papers
May 03 2016 May 05 2016	**IBPC 2016 Conference**
May 5-6 2016	**Workshop: "Quantifying the weight of forensic evidence"**
May 5, 2016	**Seminar: "Non-cooperative face recognition inc. video surveillance"**

Logistics:

When: May 3-5, 2016
Where: Red Auditorium (cap. 400)
NIST Gaithersburg, MD, USA
Internet: Wireless
Hotel: Gaithersburg area hotels, TBA
Fee: $US 165 (estimate) via registration

Contact the organizers:

Email: ibpc2016 AT nist DOT gov

Homeland Security Science and Technology