

INTERNATIONAL BIOMETRIC PERFORMANCE CONFERENCE

Evaluation and Performance of Biometric Technologies

March 5-9, 2012 PROGRAM



NIST, NPL and Fraunhofer IGD are happy to announce the agenda for the IBPC 2012 conference on performance and testing of biometric systems. The forum will bring together evaluators, users, technology providers to discuss performance in applications that embed biometric functions or component. The conference aims to detail developments in *how* systems are being tested, certified, upgraded and improved rather than to snapshot specific testing results. The conference specifically includes talks on Automated Border Control, a rapidly growing application of front-end and back-end biometric technology today, and emerging biometric uses. The talks will target operationally relevant and desirable themes, and will give emphasis to design, procurement, and what operators require from test and evaluation activities. The conference of the last decade, to identify novel evaluation methodologies and recent trends in testing, and to determine what is most operationally relevant in the context of the contemporary and emerging marketplaces.

Program Committee:

Patrick Grother, Elham Tabassi, NIST, US Tony Mansfield, NPL, UK Christoph Busch, Fraunhofer IGD, DE

Speakers:

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

Target audience:

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







Satellite Workshop I, March 5	Main Conference, March 6-8	Satellite Workshop II, March 9	Satellite Workshop III, March 9
Technical update on the second generation NIST Fingerprint Image Quality Algorithm	IBPC 2012 Conference	Artefact, Liveness, Suspicious Presentation Detection	Voice Biometrics Data Standardization for Law Enforcement, Military and Homeland Security
Portrait Room, NIST	Green Auditorium, NIST	Portrait Room, NIST	Heritage Room
13:00 - 18:00		09:00 - 12:00	09:00 - 16:30

Registration	https://www.fbcinc.com/nist_IPBC/atreg1.aspx	Registration Deadline: March 1, but	
Hotels + Logistics	http://www.nist.gov/itl/iad/ig/ibpc_logistics.cfm	attendees who are not U. S. Citizens	
Maps + Directions	http://www.nist.gov/public_affairs/visitor/index.cfm	or Permanent Residents must	
IBPC 2012 Homepage	http://biometrics.nist.gov/ibpc2012	register on or before February 26	

	IBPC 2012 - Tuesday March 6		IBPC 2012 - Wednesday March 7		IBPC 2012 - Thursday March 8	
	0800 Continental Breakfast		0800 Continental Breakfast		0800 Continental Breakfast	
	0830 Introduction, overview, goals, logistics		0830 Review of day 1, polls, question and answer		0830 Review of day 2, polls, question and answer	
nt	0840 NIST Welcome, ITL Laboratory		0845 Jim Wayman, San Jose State University, Keynote on		0845 Rick Lazarick, CSC, Patricia Wolfhope, DHS S&T,	
			Testing Trajectories		Initiatives Toward Re-usable testing	
	0850 Nick Megna, Federal Bureau of Investigation, CJIS		0925 Will Graves, DHS US-VISIT, Update on IDENT and US-		0910 Eric Kukula, Noblis, Towards a Mobile Biometric Test	
	Division, NGI Program Initiatives	nt	VISIT Activities		Framework	
am	0925 Bill Casey, Federal Bureau of Investigation, Biometrics	(6	0945 Srikanth Nadhamuni, UIDAI, Very Large Scale	Mobile	0935 Raul Sanchez-Reillo, Uni. Carlos III, Migrating Biometrics	
- Lu	Center of Excellence, BCOE Program Overview		Multimodal Testing Methods + Results for India's UID System		to Mobile Scenarios: Performance and Usability Evaluation	
No.	0950 Raj Mashruwala, Scenario Testing of Mobile Fingerprint		1020 Mark Branchflower, INTERPOL, The INTERPOL Gateway		1000 George W. Quinn, NIST, Plans for the IREX IV Activity	
0	Verification System		and Forensic Developments for 2012		Supporting Iris Identification	
	1015 Craig Watson, NIST, FPVTE 2012, Plans for NIST's		1035 Patrick Grother, NIST, FRVT 2012, Plans for NIST's		1005 Elham Tabassi, NIST, NFIQ 1 → NFIQ 2: An update	
	Upcoming 1:N Fingerprint Evaluation		Upcoming Face Recognition Evaluation			
	1017 Break		1037 Break		1025 Break	
	1045 Fares Rahmun, BVA, National Preparations Towards the		1105 PANEL, Tests to Support Commercial Adoption. Tests +		1055 Narishige Abe, Fujitsu, Evaluation of Minutiae	
_	Operation of the European Visa Information System (VIS)		Standards Enable Fair Competition. Tests of Privacy Enhancing		Reproducibility for Seasonal Variation, AND Performance	
tor			Technologies. Tests for Certification.		Evaluation for Touch- and Sweep-type Sensor Verification	
0 U	1110 Markus Nuppeney, BSI, Automated Border Control based		Terry Hartmann, Unisys Cathy Tilton, Daon		1120 Christoph Busch, Hochschule Darmstadt, Conformance	
2	on ICAO compliant eMRTDs	_	Raj Mashruwala Steve Elliott, Purdue Univ.		to Standardized Minutia Detection Requirements	
rde	1135 Stéphane Gentric, Morpho, Border control: From		Jonas Anderson, A&A Marine Vision AB	ds	1145 Fernando Podio, NIST, Performance Without	
Bo	Technical to Operational Evaluation			a	Conformance? Value of Level 1, 2, 3, conformance.	
pa	1200 Mark Burge, Mitre, Impact of Demographics on Face		1205 Axel Munde, BSI, Biometrics and Security Evaluations	an	1200 The ISO/IEC 19795 Biometric Performance Testing and	
at	Recognition			S	Reporting standard - See panel below	
ton	1225 Lunch	ť	1230 Lunch		1225 Lunch	
Au	1350 Biometric WG, the IC Passport Committee of Japan,	uri	1400 Tony Mansfield, NPL, Evaluating Attack Resistance		1335 Hiroyuki Suzuki, Tokyo Institute of technology	
+	Study Report on Facial Biometrics for Japanese ePassports	Sei	Levels of Biometric Systems		A novel framework for evaluation of ID photo quality	
l ag	1415 Michael Thieme, IBG, Sanitized Online Collection and	tric	1425 Xuebing Zhou, CASED, A Generalized Framework for		1400 Giot Romain, ENSICAEN, Performance Evaluation of	
L H	Identity Analysis Library (SOCIAL)	me	Privacy/Security Assessment of Biometric Template Protection		Biometric Template Update	
	1445 Jonathon Phillips, NIST, The Next Face Challenge:	Sior	1450 Christopher Rosenberger, ENSICAEN, How to Evaluate		1425 Stephen Elliott, Purdue University, Evolution of the	
	Achieving Robust Human Level Performance		Transformation-Based Cancelable Biometric Systems?		Human Biometric Sensor Interaction	
	1510 Brad Ulery, Noblis, Accuracy and Reliability of Forensic		1515 Elaine Newton, NIST, Editor ISO/IEC 30107, Anti-	2	1450 Stephen Wood, NIST, Operational Ground-Truth:	
	Latent Fingerprint Decisions 1555 Break		Spoofing and Liveness Detection Techniques 1525 Break		Determination, Limits and Analytic Implications	
			1555 Stephanie Schuckers, Clarkson University,	fice	1515 Break	
-	1620 Jim Jasinski, Cogent, Multimodal Testing and Multimodal Device Evaluation	ج ح	Biometric Liveness Detection: Framework and Metrics		1545 Michael Schuckers, St. Lawrence University, Scaling of Biometric False Match Rates Using Extreme Value Theory	
opc	1645 James Cambier, Cross Match Technologies, Certification	urii	1620 Ted Dunstone, Biometrics Institute, Biometric		1610 Brian DeCann and Arun Ross, WVU, Modeling an	
i.	of Iris Capture Devices	Sec	Vulnerability Assessments, An Update		Anonymous Identification System	
Int	1710 Dan Potter, Scitor, Towards an Iris Device Qualification	тiс.	1645 Belen Fernandez, University Carlos III, Common Criteria		1635 Eric Granger, University of Quebec, Dmitry Gorodnichy,	
2	Test		and Biometric Performance Testing		CBSA, Evaluation of Face Recognition for Video Surveillance	
Iris	1735 Adam Czajka, NASK PL, Iris Recognition Reliability:	lion	1710 Patrick Schuch, Dermalog, On Testing of Liveness		1700 Patrick Grother, NIST, Evaluation of 1:N Recognition	
	Authenticity Assessment + Influence of Illuminant Wavelength	Ш	Detection Feature Extractors for Fingerprint Live Scanners		Algorithms: IREX III and MBE 2010 Methods + Analysis	
	1800 Adjourn to reception		1735 Adjourn		1725 Adjourn until 2014 See satellite sessions next page	
	The ISO/IEC 19795 multipart standard – 1203 Part 2: Micl	hae	I Thieme, 1209 Part 4: Patrick Grother, 1215 Par	rt 6:	Tony Mansfield, 1220 Other SC37 WG5 standards	
	Biometric Performance Testing and Reporting Technology + scer					
	1200 Part 1: Tony Mansfield, Principles and 1206 Part 3: Eric			t 7:	Patrick Grother, On- 29197, 29198, and Patrick Grother	
	iram quark		PACS tasts card Com	anar		

PACS tests

specific aspects

framework

ISO/IEC 29120

card Comparison

Satellite Session 1	Satellite Session II	Satellite Session III				
Location:Portrait Room, NISTTime:13:00 - 18:00, Monday March 5	Location:Portrait Room, NISTTime:09:00 - 12:00, Friday March 9, 2012	Location:Heritage Room, NISTTime:09:00 - 16:30, Friday March 9				
Generation	Detection	Satellite Workshop: Voice Biometrics Data Interchange Standardization for Law Enforcement, Military & Homeland Security				
http://www.nist.gov/itl/iad/ig/development_nfiq_2.cfm	http://www.iso.org/iso/iso_catalogue/catalogue_detail.htm?csnumber=53227	http://www.nist.gov/itl/iad/ig/ansi_standard.cfm				
Admission: There is no fee to attend these workshops. All workshops attendees should email the respective chair at least one week in advance, so that he or she can arrange access to the NIST campus. Registration Deadline: March 1, but non U. S. Citizens or Permanent Residents must register on or before February 26.						
session on NFIQ strategy, will present current technical	Overview : This workshop is one of the first open sessions to address issues concerning biometric vulnerability. The focus will be on the concepts, terms, standards, and evaluation aspects.	Overview: The focus of the workshop is transmission of voice data and associated metadata for forensic analysis. This workshop will not deal with voice biometrics for applications such as access control or with features or models extracted from voice data.				
Chair: Elham DOT Tabassi AT nist DOT gov	Chair: Elaine DOT Newton AT nist DOT gov	Chairs: Brad DOT Wing AT nist DOT gov Mark DOT Przybocki AT nist DOT gov Hirotaka DOT Nakasone AT ic DOT fbi DOT gov				
Moderator: Elham Tabassi, NFIQ Architect	Moderator: Elaine Newton, NIST, Editor ISO/IEC 30107	Moderator: Brad Wing, ANSI/NIST ITL Editor				
of features 1405 Martin Olsen, CASED, Candidate features, computation and visualization 1515 Intermezzo 1545 Johannes Merkle, Secunet, Quality feature evaluation,	 Speakers: Elaine Newton, NIST, Editor of ISO/IEC 30107: Overview of the Current Draft International Standard 30107 on Artefact and Liveness Detection Rick Lazarick, CSC, Co-editor of ISO/IEC 30107: Spoofs, Subversion & Suspicion: Terms and Concepts Stephanie Schuckers, Clarkson University, and Arun Ross, West Virginia University, Error rate metrics proposed for detection of suspicious presentations to biometric authentication systems. Ralph Breithaupt, BSI, Need and perspectives to realize liveness detection Axel Munde, BSI, How can artifact detection complement common criteria and other security assessments of authentication systems 	Details:The ANSI/NIST-ITL standard "Data Format for the Interchange ofFingerprint, Facial & Other Biometric Information" has formed acommittee to develop a new record type for voice data. There alsohas been as series of workshops on Investigatory Voice Biometricsover the past 2 years, hosted a joint US-Government Committee.After an initial presentations by NIST to describe the processesinvolved in modifying the ANSI/NIST-ITL standard, the format of theworkshop will be guided, open discussion of the requirements foruseful transmission of voice data for forensic analysis. The USGovernment committee will present a 'strawman' record that will beused by the ANSI/NIST-ITL Committee as a starting point beginningwith this workshop. Topics covered: actual transmission of the audiosamples as well as associated metadata: analog and digital recordingcharacteristics (including types of equipment); speaker and contentcharacteristics (language, type of vocalization, situation - such as a911 call); redaction and snipping; environmental factors; geographiclocation; segmentation; diarization; quality; codecs and much more.This workshop will be followed by meetings of the ANSI/NIST-ITLVoice Committee to refine the record content prior to submission forvoting upon for inclusion in the NIST-ITL standard.				