

The TURBINE project aim at developing a technology to transform a description of fingerprints through crypto-biometrics techniques. The transformation result can only be re-generated by the fingerprints' owner and the result does not reveal any information about the original sample. Applying such outcomes on Identity Management schemes, TURBINE paves the way to mechanisms which combine the legitimate anonymity required by citizen and the trusted authentication expected by service providers.



TrUsted Revocable Biometric IdentiEts

The TURBINE research project has received funding from the 7th Framework Programme of the European Community (FP7/2007-2013) under Grant Agreement n° ICT-2007-216339

CryptoBiometrics for Enhanced Trusted Identity Management: Dreams & Reality

Monday 17th and Tuesday 18th January 2011,
Brussels, The International Auditorium

This international 2 days event will bring together technical experts and stakeholders on crypto-biometrics and identity management who will compare expectations with the current state-of-the-art. By attending the workshop, you will understand the challenges of current research activities by leading specialists in the area of crypto-biometrics and the research results and vision of the TURBINE project.

Day 1 – 17/01/2011: “How research can combine biometrics, cryptographic and architecture for Trusted Identities”

Dialogue with worldwide experts of on-going research, current capacities and limits of biometrics transformation for cryptographic, secure protocols dedicated to privacy enhancing, security assessment, and accuracy evaluation.

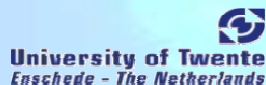


Day 2 – 18/01/2011: “Crypto-biometrics for daily life”

Identity Management for this 21st century must satisfy citizen's requirements: the legitimate privacy protection and their smart identity recognition. Crypto-biometrics seem to offer a tool within the future identity management architecture. The session aim at presenting a clear vision of what the current techniques may bring in terms of security, accuracy and trust to citizen.

More information on the TURBINE project and registration for the Workshop:

<http://www.turbine-project.eu>



For further information and contacting the partners, please visit the TURBINE website or send an email to: contact@turbine-project.eu

Project Coordinator: Nicolas DELVAUX (MORPHO) Tel: +33 (0)1 58 11 33 70
Email: nicolas.delvaux@morpho.com

Monday 17th January 2011: "How research can combine biometrics, cryptographic and architecture for Trusted Identities"

09:30 - 10:00 [Registration](#)

10:00 -10:15 Welcome and introduction of the TURBINE project
[Nicolas Delvaux, Morpho, FR](#), Project Coordinator

From Biometrics to Cryptography - moderated by Nicolas Delvaux (MORPHO)

10:15 - 10:50 Improve biometrics adaptation for cryptographic techniques
[Anil Jain, Michigan University, US](#)

10:50 - 11:10 TURBINE innovation to transform features: spectral representation, quantization
[Raymond Veldhuis, Twente University, NL](#)

11:10 - 11:40 Coffee Break

11:40 - 12:00 Processing for template protection
[Patrizio Campisi, Università degli Studi Roma Tre, IT](#)

12:00 - 12:20 Fingerprint feature vector representations
[Vincent Despiegel, Morpho, FR](#)

12:20 - 13:30 Lunch

How to Match with Template Protection - moderated by Hervé Chabanne (MORPHO)

13:30 - 14:05 Minutia transformation for template protection
[Nalini Ratha, IBM Watson Research Center, US](#)

14:05 - 14:25 Aspects & system performance for helper data systems
[Emile Kelkboom, Philips Research Europe, NL](#)

14:25 - 14:45 Information and coding theory in biometrics
[Gérard Cohen, Ecole Nationale Supérieure des Télécommunications, FR](#)

Architecture & Protocols - moderated by Christoph Busch (Gjøvik University College)

14:45 - 15:20 Architecture and template protection
[Anoop M. Namboodiri, International Institute of Information Technology, IN](#)

15:20 - 15:40 Protocols for biometrics authentication
[Stefan Katzenbeisser, Technische Universität Darmstadt, DE](#)

15:40 - 16:00 TURBINE architecture and protocols for Trusted ID management
[Hervé Chabanne/Julien Bringer, Morpho, FR](#)

16:00 - 16:20 Privacy by design: towards a systematic approach
[Daniel Le Métayer, LICIT, INRIA, FR](#)

16:20 - 16:50 Coffee Break

Trust of Crypto-Biometrics - moderated by Emile Kelkboom (Philips Research Europe)

16:50 - 17:15 Large-scale evaluation of biometric algorithms
[Elaine M. Newton, National Institute of Standards and Technology, US](#)

17:15 - 17:40 TURBINE: performance evaluation: from benchmarks to airport deployment
[Christoph Busch, Gjøvik University College, NO](#)

17:40 - 18:05 TURBINE security assessment: how to build trust
[Koen Simoens, Katholieke Universiteit Leuven, BE](#)

18:05 Conclusion of the day followed by a cocktail

Tuesday 18th January, 2011: "Crypto-biometrics for daily life"

08:45 - 09:15 [Registration](#)

Identity Management & Biometrics - moderated by Max Snijder (European Biometrics Forum)

09:15 - 09:50 Identity assurance - Who gets the assurance, who carries the risk?
[Kai Rannenberg, Goethe University Frankfurt, DE](#)

09:50 - 10:10 Today & tomorrow: Biometrics in ID documents
[Dirk Arendt, Open Limit SignCubes GmbH, DE](#)

10:10 - 10:30 Increase security trust on secure areas
[Odysseas Spyrogrou, 3D SA General Aviation Applications, GR](#)

10:30 - 11:10 Panel Discussion: biometrics a key authentication factor for future ID management?
[Moderator: Max Snijder, European Biometrics Group, NL](#)

11:10 - 11:40 Coffee Break

Survey of Crypto-Biometrics Deployment - moderated by Sophie Despinoy (ARTTIC)

11:40 - 12:05 Identity check with biometric : from a reality at the border to a necessity for the society

[Philippe Melchior, former General Inspector of the French Administration, former Chairman of the Board of ANTS, FR](#)

12:05 - 12:25 Deployment uses cases
[Michiel van der Veen, PRIV-ID, NL](#)

12:25 - 12:45 Generic application demonstrator mock-up
[Carsten Rust, Morpho e-Documents, DE](#)

12:45 - 13:05 Practical application of biocryptics for offline and networked authentication
[Jens-Petter Glittenberg/Gavan Duffy, GenKey, NO](#)

13:05 - 14:05 Lunch

TURBINE a Step Forward for Privacy Protection - moderated by Els Kindt (Katholieke Universiteit Leuven- ICRI)

14:05 - 14:30 Protected biometrics to support citizen
[Michelle Chibba, Province of Ontario Information and Privacy Commission, CA](#)

14:30 - 14:55 Telebiometric authentication: one time template and biometric HSM
[Myung Geun Chun, Chungbuk National University, KR](#)

14:55 - 15:20 Privacy by design : involvement of the EDPS in research projects
[Michael Vanfleteren, European Data Protection Supervisor, BE](#)

15:20 - 15:45 A plea for responsible innovation in biometrics
[Emilio Mordini, Centre for Science, Society and Citizenship, IT](#)

15:45 - 16:00 Conclusion of the day, Welfare Coffee