

The 12th ACM Workshop on Multimedia and Security

September 9-10, Rome, Italy

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Program

Thursday, 9th September 2010	
08:00 08:45	Registration
08:45 09:00	Welcome Address
09:00 10:00	Plenary Talk <i>Biometrics in Electronic Travel Documents</i> Ari Juels, Chief Scientist, RSA Laboratories, Cambridge, MA, USA
10:00 11:05	Digital forensics 1
11:05 11:30	Coffee break
11:30 13:00	Digital forensics 2
13:00 14:00	Lunch
14:00 15:45	Biometrics 1
15:45 16:15	Coffee break
16:15 17:15	Biometrics 2
17:30 19:30	Guided tour to “Musei Capitolini”
20:00 22:30	Social dinner

Friday, 10th September 2010	
09:00 11:00	Digital watermarking 1
11:00 11:30	Coffee break
11:30 13:00	Digital watermarking 2
13:00 14:00	Lunch
14:00 15:00	Poster session and Rump session
15:00 16:35	Steganography and steganalysis
16:35 17:00	Coffee break
17:00 18:05	Encryption
18:05 18:15	Conclusions
18:15 18:30	Farewell and Goodbye

Thursday, 9th September 2010

08:00 08:45 **Registration**

08:45 09:00 **Welcome Address**

09:00 10:00 **Plenary Talk**

Biometrics in Electronic Travel Documents

Ari Juels, Chief Scientist, RSA Laboratories, Cambridge, MA, USA

Digital forensics 1 (Session Chair: Alessandro Piva)

10:00 10:25 *Estimating Vignetting Function From A Single Image For Image Authentication*,

Siwei Lyu (University at Albany, SUNY)

10:25 10:45 *Linear row and column predictors for the analysis of resized images*, Matthias Kirchner (TU Dresden)

10:45 11:05 *Color Laser Printer Forensics with Noise Texture Analysis*

JungHo Choi (KAIST), Hea-Yeoun Lee (Kumoh National Institute of Technology) Heung-Kyu Lee (Korea Advanced Institute of Science and Technology)

11:05 11:30 **Coffee break**

Digital forensics 2 (Session Chair: Scott Craver)

11:30 11:55 *Anti-Forensics of Contrast Enhancement in Digital Images*

Gang Cao (Beijing Jiaotong University), Yao Zhao (Beijing Jiaotong University), Rongrong Ni (Beijing Jiaotong University), Huawei Tian (Beijing Jiaotong University)

11:55 12:20 *Towards Event Ordering in Digital Forensics*

Arshad Jhumka (University of Warwick) Chris Levett (University of Warwick) Sarabjot Anand (University of Warwick)

12:20 12:40 *FLD-Based Detection of Double-Compressed Speech Signals*

Xiaoying Feng (University College London)

12:40 13:00 *Screenshot Identification Using Combining Artifact from Interlaced Video*

Ji-Won Lee (KAIST), Min-Jeong Lee (KAIST), Tae-Woo Oh (KAIST), Seung-Jin Ryu (KAIST), Heung-Kyu Lee (KAIST)

13:00 14:00 **Lunch**

Biometrics 1 (Session Chair: Andrzej Drygajlo)

14:00 14:25 *Negative Databases for Biometric Data*

Julien Bringer (Sagem Sécurité) Hervé Chabanne (Sagem Sécurité, Télécom ParisTech)

14:25 14:45 *Identification and Secret-Key Generation in Biometric Systems with Protected Templates*

Frans Willems (TU/e), Tanya Ignatenko (TU/e)

14:45 15:05 *User interaction and automatically generation based reverse-engineer methods on a biometric hash algorithm for dynamic handwriting*

Karl Kümmel University of Applied Sciences Brandenburg, Claus Vielhauer University of Applied Sciences Brandenburg)

15:05 15:25 *Binary Spectral Minutiae Representation with Multi-Sample Fusion For Fingerprint Recognition*

Haiyun Xu (University of Twente), Raymond Veldhuis (University of Twente)

15:25 15:45 *Multi-Factor Biometrics for Authentication: A false sense of security*

Hisham Al Assam (University of Buckingham) Harin Sellahewa (University of Buckingham), Sabah Jassim (University of Buckingham)

15:45 16:15 **Coffee break**

Biometrics 2 (Session Chair: Frans Willems)

16:15 16:35 *The impact of ARTMAP to appearance-based face verification*

Andrey Makrushin (Otto-von-Guericke University), Claus Vielhauer (University of Applied Sciences Brandenburg)

16:35 16:55 *Face recognition with DAISY descriptors*

Carmelo Velardo (Eurecom), Jean-Luc Dugelay (EURECOM)

16:55 17:15 *Palm Vein Biometrics Based on Infrared Imaging and Complex Matched Filtering*

Modris Greitans (IECS), Rihards Fuksis (IECS), Mihails Pudzs (IECS)

Friday, 10th September 2010

Digital Watermarking 1 (Session Chair: Jessica Fridrich)09:00 09:25 **Modelling Watermark Communication Protocols using the CASPER Modelling Language**

Christian Kraetzer (OvGU / FIN / ITI), Ronny Merkel (OvGU / FIN / ITI), Robert Altschaffel (OvGU / FIN / ITI), Eric Clausing (OvGU / FIN / ITI), Maik Schott (OvGU / FIN / ITI), Jana Dittmann (OvGU / FIN / ITI)

09:25 9:50 **Robust Detection of Audio Watermarks after Acoustic Path Transmission** Michael Arnold (Technicolor), Peter Baum (Technicolor), Xiao Chen (Technicolor)09:50 10:15 **Video Watermarking using Motion Compensated 2D+t+2D Filtering** Deepayan Bhowmik (The University of Sheffield), Charith Abhayaratne (The University of Sheffield)10:15 10:40 **A Highly Adaptable Capacity and Invisibility 3D Watermarking Based on Four-Points Sets**

Gao Xifeng (Shandong University)

10:40 11:00 **Reversible watermarking via histogram shifting and least square optimization**

Michele Muzzarelli (University of Roma TRE), Marco Carli (University of Roma TRE), Giulia Boato (University of Trento), Karen Egiazarian (Tampere University of Technology)

11:00 11:30 **Coffee break****Digital Watermarking 2 (Session Chair: Mauro Barni)**11:30 11:55 **Towards robust and secure watermarking**

Fuchun Xie (INRIA-Rennes Bretagne Atlantique Research Center, France), Teddy Furon (INRIA-Rennes Bretagne Atlantique Research Center, France) Caroline Fontaine (CNRS/Telecom Bretagne, France)

11:55 12:20 **Reversible Watermarking for Image Integrity Verification in Hierarchical PACS**

Marco Fontani (Università di Firenze), Alessia De Rosa (Università di Firenze), Roberto Caldelli (Università di Firenze), Francesco Filippini (Università di Firenze), Alessandro Piva (Università di Firenze), Matteo Consalvo (Azienda Sanitaria di Firenze)

12:20 12:40 **Zero False Positive 2-secure Fingerprinting Watermarking based on Combining Hamming Distance Conditions and Parent Pair Search**

Marcel Schaefer (Fraunhofer SIT), Waldemar Berchtold (Fraunhofer SIT) Sascha Zmudzinski (Fraunhofer SIT), Martin Steinebach (Fraunhofer SIT)

12:40 13:00 **Watermark Detection on Quantized Transform Coefficients using Product Bernoulli Distributions**

Peter Meerwald (Univ. Salzburg), Andreas Uhl (Univ. Salzburg)

13:00 14:00 **Lunch****Poster Session and Rump session (Session Chairs: Jessica Fridrich, Scott Craver)**14:00 14:20 **Fully featured secure biometric smart card device for fingerprint-based authentication and identification**

Lionel Beaugé (COVADIS S.A.) Andrzej Drygajlo (EPFL)

14:20 15:00 **Rump Session****Steganography and steganalysis (Session Chair: Teddy Furon)**15:00 15:25 **Quantitative Steganalysis of LSB Embedding in JPEG Domain**

Jan Kodovsky (Binghamton University), Jessica Fridrich (Binghamton University)

15:25 15:50 **Steganography using Gibbs random fields**

Tomas Filler (Binghamton University), Jessica Fridrich (Binghamton University)

15:50 16:15 **The Square Root Law Does Not Require a Linear Key**

Andrew Ker (Oxford University)

16:15 16:35 **Simple Algorithmic Modifications for Improving Blind Steganalysis Performance**

Valentin Schwamberger (MPI for Biological Cybernetics), Matthias Franz (HTWG Konstanz)

16:35 17:00 **Coffee break****Encryption (Session Chair: Andrew Ker)**17:00 17:25 **Privacy-Preserving Fingercodes Authentication**

Mario Di Raimondo (Università of Catania), Mauro Barni (Università di Siena) Dario Catalano (Università di Catania), Ruggero Donida Labati (Università di Milano) Pierluigi Failla (Dept. of Inf. Eng. Uni. Siena), Tiziano Bianchi (Università di Firenze) Dario Fiore (Ecole Normale Supérieure - CNRS-INRIA), Riccardo Lazzaretto (Università di Siena) Vincenzo Piuri (Università di Milano), Fabio Scotti (Università di Milano) Alessandro Piva (Università di Firenze)

17:25 17:45 **eSketch: a Privacy-Preserving Fuzzy Commitment Scheme for Authentication using Encrypted Biometrics**

Pierluigi Failla (Dept. of Inf. Eng. Uni. Siena), Yagiz Sutcu, Mauro Barni (Università di Siena)

17:45 18:05 **Subjective and Objective Quality Assessment of Transparently Encrypted JPEG2000 Images**

Thomas Stutz (University of Salzburg), Vinod Pankajakshan (IRCCyN) Florent Autrusseau (IRCCyN) Andreas Uhl (Univ. Salzburg), Heinz Hofbauer (University of Salzburg)

18:05 18:15 **Conclusions**

18:15 18:30 **Farewell and Goodbye**

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- **[Call for Papers](#)**

- [Call for Papers \(pdf, 133K\)](#)

- **[Technical Program](#)**

- [Technical program \(pdf, 51K\)](#)

- **Key dates**

- Submissions start:
 - February 1, 2010
 - Submissions end:
 - **May 14, 2010**
 - ~~April 28, 2010~~
 - Authors notified:
 - ~~June 15, 2010~~
 - June 22, 2010
 - Camera-ready copies by:
 - June 30, 2010
 - Workshop:
 - September 9-10, 2010

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