

# The 10th ACM Workshop on Multimedia and Security

September 22-23, 2008  
Oxford, UK

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## Key dates

Submissions open	<i>Feb 1, 2008</i>
Submissions end	<i>Apr 15, 2008</i>
Authors notified	<i>Jun 13, 2008</i>
Registration open	<i>Jun 20, 2008</i>
Camera ready by	<i>Jul 15, 2008</i>
Late registration	<i>Aug 18, 2008</i>
Workshop	<i>Sep 22-23, 2008</i>



*Magdalen college tower*



## INFORMATION FOR SPEAKERS

Authors of full papers have 25 minutes for their presentation, and short papers are limited to 15 minutes. These **include** time for questions. Please help the workshop to run smoothly by keeping to time. The computing lab provides a Windows XP machine with Office 2003, from which your presentation can be run, or you may plug in your laptop to the projection system. Laptop line out can be amplified.

## KEYNOTE ADDRESS

We are delighted to announce that a keynote address will be given by [Prof. Ingemar Cox](#), BT Chair of Communications at University College London.

## PROGRAM

### Sunday 21 September

**19:00**

#### Opening Reception

*in the Swire Seminar Room at University College, Oxford High St.*

### Monday 22 September

**9:00**

#### Welcome

*Andrew Ker, University of Oxford*

**9:10**

#### Forensics

*session chair: Jana Dittmann, Otto-von-Guericke University, Magdeburg*

#16

Printer Profiling for Forensics and Ballistics  
*Eric Kee, Dartmouth College; Hany Farid, Dartmouth College*

#55

Fast and Reliable Resampling Detection by Spectral Analysis of Fixed Linear Predictor Residue  
*Matthias Kirchner, TU Dresden*

#34

Detecting Digital Audio Forgeries by Checking Frame Offsets (short paper)  
*Rui Yang, Sun Yat-Sen University; Zhenhua Qu, Sun Yat-Sen University; Jiwu Huang, Sun Yat-Sen University*

#17

Locating Steganographic Payload via WS Residuals (short paper)  
*Andrew D. Ker, University of Oxford*

**10:30**

**Coffee**

**11:00**

**Watermarking**

*session chair: Patrick Bas, CNRS*

#7

A Lightweight Rao-Cauchy Detector for Additive Watermarking in the DWT-Domain  
*Roland Kwitt, University of Salzburg; Peter Meerwald, University of Salzburg; Andreas Uhl, University of Salzburg*

#61

A Robust Spectral Approach for Blind Watermarking of Manifold Surfaces  
*Yang Liu, University of Texas at Dallas; Balakrishnan Prabhakaran, University of Dallas; Xiaohu Guo, University of Texas at Dallas*

#49

Self-Synchronizing Robust Texel Watermarking in Gaussian Scale-Space  
*Mathias Schlawweg, University of Rostock; Dima Pröfrock, University of Rostock; Benedikt Zeibich, University of Rostock; Erika Müller, University of Rostock*

#10

Multiple Re-Watermarking Using Varying Non-Stationary MRA with Parameterized Wavelet Filters (short paper)  
*Andreas Uhl, University of Salzburg*

#41

Histogram-Based Reversible Data Hiding Technique Using Subsampling (short paper)  
*Kyung-Su Kim, KAIST; Min-Jeong Lee, KAIST; Heung-Kyu Lee, KAIST*

**12:45**

**Lunch**

**14:00**

**Coding & Encryption**

*session chair: Andreas Westfeld, TU Dresden*

#52

Psycho-acoustic Model-based Message Authentication Coding for Audio Data  
*Sascha Zmudzinski, Fraunhofer SIT; Martin Steinebach, Fraunhofer SIT*

#47

Efficient Pointwise and Blockwise Encrypted Operations (short paper)  
*Tiziano Bianchi, University of Florence; Alessandro Piva, University of Florence; Mauro Barni, University of Siena*

**14:40**

**Fingerprinting & Tamperproofing**

*session chair: Andreas Westfeld, TU Dresden*

#6

Tamper Proofing Mechanisms for Motion Capture Data  
*Parag Agarwal, University of Texas at Dallas; Balakrishnan Prabhakaran, University of Dallas*

#37

On-Off Keying Modulation and Tardos Fingerprinting (short paper)  
*Fuchun Xie, INRIA; Teddy Furon, INRIA; Caroline Fontaine, CNRS*

**15:20**

**Coffee**

**15:50**

**Steganography**

*session chair: Jessica Fridrich, SUNY Binghamton*

#68

The Square Root Law of Steganographic Capacity  
*Andrew D. Ker, University of Oxford; Tomáš Pevný, SUNY Binghamton; Jan Kodovský, SUNY Binghamton; Jessica Fridrich, SUNY Binghamton*

#11

Secure Covert Channels in Multiplayer Games (short paper)  
*Malte Diehl, Universität Oldenburg*

**16:30**

**Rump Session**

*session chair: Jessica Fridrich, SUNY Binghamton*

**19:00**

**Conference Dinner at University College**

**Tuesday 23 September**

**9:00**

**Keynote address**

Watermarking, Steganography and Content Forensics  
*Ingemar Cox, University College London*

**10:00**

**Steganalysis**

*session chair: Andrew Ker, University of Oxford*

#67

On Completeness of Feature Spaces in Blind Steganalysis  
*Jan Kodovsky, SUNY Binghamton; Jessica Fridrich, SUNY Binghamton*

#24

Detecting LSB Matching by Applying Calibration Technique for Difference Image  
(short paper)  
*Xiaolong Li, Peking University; Tiejiong Zeng, CNRS; Bin Yang, Peking University*

**10:40**

**Coffee**

**11:10**

**Steganalysis (continued)**

#35

Steganalysis of YASS  
*Bin Li, Sun Yat-Sen University; Yun Shi, New Jersey Institute of Technology; Jiwu Huang, Sun Yat-Sen University*

#62

Steganalysis of QIM Steganography Using Irregularity Measure  
*Hafiz Malik, University of Michigan*

#65

Impact of Feature Selection in Classification for Hidden Channel Detection on the Example of Audio Data Hiding  
*Christian Krätzer, Otto-von-Guericke University, Magdeburg; Jana Dittmann, Otto-von-Guericke University, Magdeburg*

#66

Novelty Detection in Blind Steganalysis  
*Tomás Pevný, SUNY Binghamton; Jessica Fridrich, SUNY Binghamton*

**12:50**

**Lunch**

**14:00**

**Biometrics & Multimodal Methods**

*session chair: Balakrishnan Prabhakaran, University of Dallas*

#33

Privacy-Preserving Multimodal Person and Object Identification  
*Oleksiy Koval, University of Geneva; Slava Voloshynovskiy, University of Geneva; Thierry Pun, University of Geneva*

#63

Vehicle Systems: Comfort & Security Enhancement of Face/Speech Fusion with Compensational Biometrics  
*Michale Biermann, Otto-von-Guericke University, Magdeburg; Tobias Hoppe, Otto-von-Guericke University, Magdeburg; Jana Dittmann, Otto-von-Guericke University,*

Magdeburg; Claus Vielhauer, Otto-von-Guericke University, Magdeburg

#29

Multimodal Authentication based on Random Projections and Distributed Coding  
Slava Voloshynovskiy, University of Geneva; Oleksiy Koval, University of Geneva; Thierry Pun, University of Geneva

**15:15**

**Coffee**

**15:45**

**Watermarking Attacks**

session chair: Claus Vielhauer, Otto-von-Guericke University, Magdeburg

#38

Using a Formal Analysis Technique to Identify an Unbinding Attack on a Buyer-Seller Watermarking Protocol  
David Williams, University of Surrey; Helen Treharne, University of Surrey; Anthony Ho, University of Surrey; Chris Culnane, University of Surrey

#56

A Regression-Based Restoration Technique for Automated Watermark Removal (short paper)  
Andreas Westfeld, TU Dresden

#8

A Key-Recovery Attack on Authentication Watermarking by Li and Yuan (short paper)  
Hans Georg Schaathun, University of Surrey

#31

Evaluation of an Optimal Watermark Tampering Attack Against Dirty Paper Trellis Schemes (short paper)  
Patrick Bas, CNRS; Gwenaél Doërr, University College London

**16:55**

**Closing Address**



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