

Multimedia and Security Workshop 2004, Magdeburg, Germany



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ACM

ACM Multimedia and Security Workshop 2004
Magdeburg, Germany, September 20-21



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Organizing Committee

■ **General Chair**

[Jana Dittmann](#)

Otto-von-Guericke university Magdeburg, Germany

■ **Program Chair**

[Jessica Fridrich](#)

SUNY Binghamton, USA

■ **ACM SIGMM Chair**

[Ramesh Jain](#)


Georgia Tech, USA

Multimedia and Security Workshop

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 **Submission deadline for the final Version is July 5 and please register for the workshop for the early bird!**
[Final Paper Submission](#)

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Program

Introduction

The Multimedia and Security Workshop objective is to set a platform able to identify key issues to be addressed by future research in the areas of media manipulation recognition, media data authentication, and detection of hidden communication channels. We expect the workshop to help motivate this research and to establish fruitful relationships with key actors in the European, US, and Asian countries.

Objectives

- Discussion of emerging technologies in digital multi-media authentication, identification, fingerprinting, and steganalysis.
- Identification of key research problems with the biggest impact on specified deficiencies in the field of multimedia security and distribution
- Formulation of target applications of said technologies (in both the commercial and

MISSION

The mission of the workshop is to bring together experienced researchers, developers, and practitioners from academia, industry, and government for a discussion of aspects and the impact of digital manipulations and steganographic channels. The workshop reflects the strength and weaknesses of what the multimedia community has to offer to meet the needs of secure multimedia environments. Participants get an excellent overview about what the community has to offer, where the improvements are, and discuss ongoing progress as well as open research problems. The workshop will consist of invited papers, submitted papers, panel discussions, and a rump session.

SCOPE AND PAPERS

Papers should address fundamental issues of multimedia watermarking and steganography. We will consider both theoretical papers dealing with fundamental issues and application oriented contributions (software and hardware demos highly encouraged). Topics include but are not limited to:

Committee

Jana Dittmann
Jessica Fridrich
Mauro Barni
Ahmet Eskicioglu
Ton Kalker
Deepa Kundur
Stefan Katzenbeisser
Heung-Kyo Lee
Ching-Yung Lin
Chun-Shien Lu
Alessia De Rosa
Nasir Memon
Nicholas Sheppard
Ramarathnam
Venkatesan
Slava Voloshinovsky
Alessandro Piva

military sector)

- Discussion of legal issues connected to multimedia security, digital watermarking, and steganography

- Robust watermarking of multimedia
- Authentication of multimedia
- Informational-theoretical aspects of data hiding
- Steganography and steganalysis
- Forensic analysis of digital multimedia
- Practical systems with aspects of data hiding
- Watermarking quality evaluations and benchmarks
- New applications, security issues and legal aspects

In particular, the call for papers includes request for full papers with high degree of innovations as well as papers for the rump session where we encourage people submitting papers that are interesting incremental improvements of existing art or sufficiently motivated papers with new ideas and research directions. Full papers should be 6–12 pages long, rump session papers 4-6 pages long (ACM format <http://www.acm.org/sigmm/>). Accepted papers will be published as ACM workshop proceedings.

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Workshop Program

Monday, September 20

Time	Topic	Person
9:30-10:00	Registration	
10:00-10:30	Welcome	Jana Dittmann
	Session: Steganography I	Session Chairs: Jana Dittmann
10:30-11:00	Perturbed Quantization Steganography Using Wet Paper Codes	Jessica Fridrich, Miroslav Goljan, David Soukal

11:00-11:30	A Hierarchical Protocol for Increasing the Stealthiness of Steganographic Methods	Mercan Topkara, Umut Topkara, Mikhail J. Atallah, Cuneyt Taskiran, Eugene Lin, Edward J. Delp
11:30-12:00	Statistical Characterisation of MP3 Encoders for Steganalysis	Rainer Boehme, Andreas Westfeld
12:00-13:00	Lunch Break	
	Session: Attack and Evaluation	Session Chairs: Andreas Lang
13:00-13:30	Quantization-based watermarking performance improvement using host statistics: AWGN attack case	Oleksiy Koval, Sviatoslav Voloshynovskiy, Fernando Perez-Gonzalez, Frederic Deguillame
13:30-14:00	An Improved Attack Analysis on A Public-Key Spread Spectrum Watermarking	Mustafa Kesal, M. Kivanc Mihcak, Ramarathnam Venkatesan
14:00-14:30	<u>Overcoming the obstacles of Zero-Knowledge Watermark Detection</u>	Andre Adelsbach, Markus Rohe, Ahmad-Reza Sadeghi
14:30-15:00	Coffee break	
	Session: Steganography II	Session Chairs: Jessica Fridrich
15:00-15:20	Adaptive Steganography Based on Dithering	Elke Franz, Antje Schneidewind
15:20-15:40	Hidden Markov Models and Steganalysis	Maxim Sidorov
15:40-16:00	Data Hiding on 3D Polygonal Meshes(Old: Efficient Steganography Based on Three-Dimensional Polygonal Meshes)	Y. Maret, T. Ebrahimi
16:00-16:20	Improving LSB Steganalysis using marginal and joint probabilistic distributions	Roue Benoit, Patrick Bas, Jean-Marc Chassery
16:20-16:40	Coffee break	
	Session: Security	Session Chairs: Ahmet Eskicioglu
16:40-17:00	A Geometric-Resilient Image Hashing System and Its Application Scalability	Chao-Yong Hsu, Chun-Shien Lu, C. Chun-Shien Lu L
17:00-17:20	Privacy Protection for Signed Media Files - A Separation-of-Duty Approach to the Lightweight DRM (LWDRM) System	Radiger Grimm, Patrick Aichroth
17:20-17:40	Are parameterised biorthogonal wavelet filters suited (better) for selective encryption?	Andreas Uhl, Andreas Pommer

17:40-18:00	Key-Assignment Strategies for CPPM	Andre Adelsbach, Joerg Schwenk
19:00-open end	Social Programme	
19:00-19:45	Visit to Magdeburg Cathedral incl. guided tour.	
20:00-open end	Diner at the Buttergasse Restaurant.	

Tuesday, September 21

Time	Topic	Person
8:30-9:00	Coffee	
9:00-10:00	Keynotes: Multimedia Security: The 22nd Century Approach!	Edward Delp
	Session: Watermarking Algorithms	Session Chairs: Claus Vielhauer
10:00-10:30	Informed detection of audio watermark for resolving playback speed modification	Michiel van der Veen, Aweke Lemma, Sylvain Beauget
10:30-11:00	Scale-Invariant Image Watermarking via Optimization Algorithms for Quantizing Randomized Statistics	Tie Liu, Ramarathnam Venkatesan, M. Kivanc Mihcak
11:00-11:30	Exploiting Self-Similarities to Defeat Digital Watermarking Systems - A case Study on Still Images	Gwenaë Doarr, Jean-Luc Dugelay, Lucas Granga
11:30-12:00	Wavelet-Based Blind Watermarking of 3D Models	Francesca Ucheddu, Massimiliano Corsini, Mauro Barni
12:00-13:00	Lunch Break	
	Session: Authentication I	Session Chairs: Patrik Bas
13:00-13:30	A Sensor-Based Multimedia Authentication System	Zheng Liu, Xue Li, Zhaoyang Dong
13:30-14:00	Reversible Watermarking of 2D-Vector Data	Michael Voigt, Bian Yang, Christoph Busch
14:00-14:30	Coffee Break	

	Session: Robust digital watermarking	Session Chairs: Edward Delp
14:30-14:50	Secure DWT-SVD Domain Image Watermarking: Embedding Data in All Frequencies	Emir Ganic, Ahmet M. Eskicioglu
14:50-15:10	Key-dependency for a wavelet-based blind watermarking algorithm	Michael Brachtl, Andreas Uhl, Werner Dietl
15:10-15:30	Digital Watermarks for 2D Vectordata	Gerrit Schulz, Michael Voigt
15:30-15:50	Counteracting oracle attacks	Ilaria Venturini
15:50-16:10	Digital image watermarking using Complex Wavelet Transform	Terzija Natasa, Geisselhardt Walter
16:10-16:30	Coffee break	
	Cont. Session: Robust digital watermarking	Session Chairs: Edward Delp
16:30-16:50	The digital watermarking container: Secure and efficient embedding	Martin Steinebach, Sascha Zmudzinski, Fan Chen
16:50-17:10	An audio watermarking scheme robust against stereo attacks	David Megias, Jordi Herrera-Joancomarti, Julia Minguillon
	Session: Authentication II	Session Chairs: Stefan Katzenbeisser
17:10-17:30	Fragile Watermarking Scheme Based on the Block-wise Dependency in the Wavelet Domain	Huayin Si, Chang-Tsun Li
17:30-17:50	Audio Watermarking Algorithm for Real-time Speech Integrity and Authentication	Song Yuan, Sorin A. Huss
17:50-18:00	Workshop Summary	

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Charge for the Workshop / Registration

Late/On-site

(from August 16 2004 until on-site)

ACM/SIG Members 300 Euro

Non-ACM/SIG Members 350 Euro

Full-time Student 250 Euro

!!!! NEW !!!!

Payable creditcard: Visa and Mastercard (NO American Express Card) and EC-Card.(only Late/On-site)

Or transfer the money to following bank account:

Account holder name:	Otto-von-Guericke-Universitaet Magdeburg
Bank account number:	810 015 02
Bank code:	810 000 00
SWIFT code:	MARKDEF 1810
IBAN:	DE21 8100 0000 0081 0015 02
Bank name:	Deutsche Bundesbank, Filiale Magdeburg
Booking subjekt:	25433201, ACM Workshop

REGISTRATION

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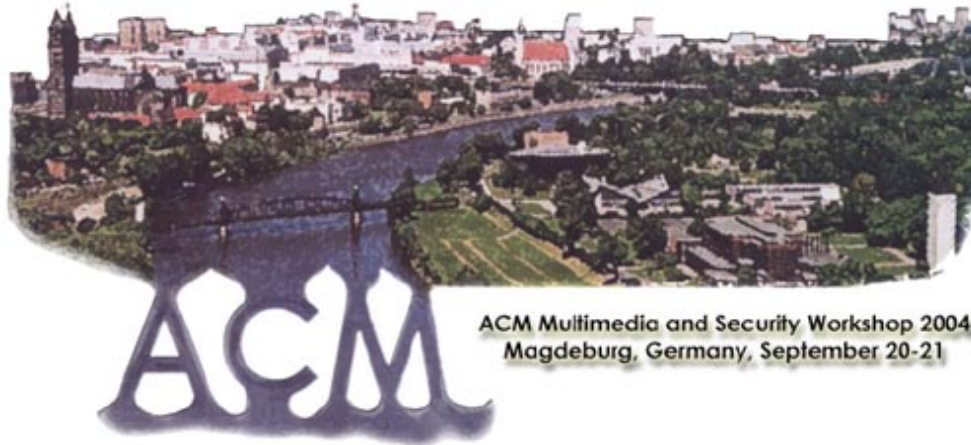


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Location:

Otto-von-Guericke-University Magdeburg
Advanced Multimedia and Security Lab (AMSL)
Faculty of Computer Science
Building 29, Room 307
Universitätsplatz 2 (Gustav-Adolf-Str.)
39106 Magdeburg, Germany

Phone: +49 (391) 67-18965

Fax: +49 (391) 67-18110



Main Entrance of the University



Faculty of Computer Science

Hotels :

Name	URL	Single Room (Euro)	Double Room (Euro)
Ratswaage	www.ratswaage.de	71,00 (weekend) 77,00	97,00 (weekend) 102,00
InterCity Hotel	www.magdeburg.intercityhotel.de	58,00	69,00
Herrenkrug	www.herrenkrug.de	88,00	118,00

Code for booking: ACM-Workshop

Deadline: Sep 4, 2004

After deadline the reservation of the rooms for the ACM-Workshop members ends

Travel:

[More Hotels / Travel Information / Magdeburg Map](#)

We are updated the 'Travel Information' at the end of August, about current construction work !

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