

The 11th ACM Workshop on Multimedia and Security

September 7-8, 2009, Princeton NJ

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Location, venue and maps

A clickable campus map can be found at this [link right here](#). Note the following important locations:

- The conference venue is the Friend Center, attached to the Computer Science building. The Sunday reception will be held in Sherrerd Hall, across the courtyard from the Friend Center. This is about 0.4 miles from the Nassau Inn. The reception starts at 7pm on Sunday.
- The Dinky Station is where the train from New York arrives on campus. This is south of the Nassau Inn, across campus by about 0.4 miles.
- The Nassau Inn is not on this map, but it is right above 1 Palmer Square in the top center. The Inn is in the square, just past the post office.

The Banquet venue is the Mountain Lakes House, at 57 Mountain Avenue. This is a little under a mile from the Hotel, to the north.

Things to do in Princeton

Princeton is a small but upscale town with a thriving downtown, the Nassau Inn being right in the middle. Across from the hotel is the university campus, whose tranquil and pastoral architecture is worth exploring. Beyond this, here is a list of specific locations worth checking out.

- **Visit the Princeton Art Museum.** The Princeton Museum of Art is on campus, across from the Hotel.
Also, if you are an art buff, you may want to check out the tap room in the basement of the Nassau Inn: behind the bar is one of the few murals painted in place by Norman Rockwell. As is the case with many of his works, he painted himself into it.
- If you are in town on Sunday at 1pm, you may want to walk to the Graduate College and hear the weekly carillon concert. The graduate college is in the west end of campus, and sports a 20-ton carillon with 67 bells, one of the few in the country. Every week the carillon is played from 1 to 1:45pm.
- Visit the **Bent Spoon**. This is right in the same courtyard as the Nassau Inn, and features the best gelato in New Jersey.
- Visit **Grounds for Sculpture**. Off I295 driving towards Trenton, Grounds for Sculpture is a sculpture garden of unusual size. If you have a car, you might want to consider finding it.
- If you are a history buff and have a car, you may want to check out the **Princeton Battlefield**. This is the site of the

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- Call for Papers (pdf, 133K)

• Key dates

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◦ February 1, 2009
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◦ May 7, 2009
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◦ June 20, 2009
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battle of Princeton, a turning point in the American revolutionary war. The site includes a small museum, and a replanted shoot from the Mercer Oak (Gen. Hugh Mercer died at the foot of this tree, which finally fell down from strong winds in 2002.)

- See if you can find the steganographic message concealed in the exterior of the Computer Science building. This is the brick building merged with the Friend Center, our conference venue. Hint: the message payload is small, and it isn't anything you don't already know.

Registration Open

Registration is open for ACM MMSEC 2009, at **the RegOnline online registration site**.

The registration fees are as follows:

Before August 15		After August 15		Students	
ACM/SIG member	\$335.00	ACM/SIG member	\$385.00	Student	\$200.00
Non-member	\$385.00	Non-member	\$435.00		

MM&SEC 2009

NOTE: The submission deadline has been extended to May 7, 2009.

The 11th ACM workshop on Multimedia and Security will be held in Princeton, New Jersey, USA on September 7th and 8th of 2009.

OBJECTIVES

- Discussion of emerging technologies in digital multimedia authentication, encryption, identification, fingerprinting, steganography and steganalysis, secure multimedia networking and biometric user authentication.
- Identification of critical high impact research problems addressing specific deficiencies in the field of secure multimedia distribution and consumption.
- Formulation of target applications of identified technologies in both the commercial, civilian, and military sectors.
- Exposition of legal, business and technology policy issues relevant to multimedia security.

Scope

Papers addressing security in multimedia processing, transmission, and consumption are welcomed. Both theoretical concepts dealing with fundamental performance issues and application-oriented contributions within this scope will be considered. Software and hardware demonstrations are highly encouraged.

Topics include, but are not limited to:

Topics include, but are not limited to,

- Multimedia watermarking, fingerprinting and identification.
- Multimedia authentication and encryption. Signal processing in encrypted domains.
- Steganography and steganalysis.
- Data hiding in biometrics, security issues of biometrics, biometric template protection, security in multimodal and multifactor authentication.
- Practical systems exhibiting data hiding characteristics.
- Digital media forensics.
- Multimedia network protection, privacy and security.
- Secure multimedia system design, trusted computing, and protocol security.
- Security evaluation and benchmarks.
- Emerging applications.
- Legal and business issues as well as their interaction with technological development.
- Issues of technology policy and public policy in multimedia security, for example DRM, copyright, privacy, interoperability and accessibility.

Paper submission and templates

The ACM formatting rules and templates can be found at

<http://www.acm.org/sigs/pubs/proceed/template.html>. Full papers should be 6–10

pages long, short papers 4–6 pages long.

To submit a paper, visit our submission site at <https://cmt.research.microsoft.com/ACMMMS2009/>. Create a new user account,

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About

Since its inception in 1998, The ACM Multimedia and Security Workshop has become a prominent forum for cutting-edge research in areas such as steganography, watermarking and DRM, multimedia forensics, biometrics, and other topics in the overlap of information security and multimedia signal processing.

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Accomodations and Travel

Accomodations

The workshop has a block of rooms available at the historic Nassau Inn in downtown Princeton, across from the university's main campus. The discount rate is \$159.00/night, and is available if a room is booked before August 17.

To access a room at the conference rate, contact the Nassau inn and use the code 13564. The Nassau Inn's contact information is:

10 Palmer Square, Princeton, NJ 08542

Phone: 1-800-862-7728 (reservation department) (609) 921-7500 (hotel)

Web: <http://www.nassauinn.com>

Numerous other hotels can be found along US1 in Princeton. Note that these require ground transportation to and from the campus.

- Princeton Courtyard Hotel: 3815 US Highway 1 at Mapleton Rd, Princeton, NJ- (609) 716-9100
- Hyatt Regency Princeton: 102 Carnegie Center, Princeton, NJ- (609) 987-1234
- The Princeton Westin: 201 Village Boulevard, Princeton, NJ- (609) 452-7900

Workshop Venue

The workshop will be held in the Friend Center convocation room, next to the computer science building on Princeton University's campus. A campus map can be found [here](#).

Travel

Princeton University is accessible by train from both Newark International Airport, New York City Penn Station, and Philadelphia International Airport. From Newark, one takes the NJ Transit rail to Princeton Junction; the "dinky" train then travels the remaining leg to campus.

From Philadelphia Airport, one takes the SEPTA R1 line to 30th street station, switching to the R7 line to Trenton, New Jersey. In Trenton station, switch to the NJ Transit line north to Princeton Junction.

[NJ Transit home page](#)

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SEPTA home page

The Princeton Train station is on the east side of campus, on University Place near Alexander Street. The Hotel is on the north edge of campus, approximately 1km from the train station.

Public Transportation

Princeton has little in the way of public transportation, beyond the rail system connecting the town to the cities of New York and Philadelphia. Travel within the city is on foot or by car. While the city is relatively compact, those who choose a hotel outside of the town are advised to rent a car.

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Technical Program

This is the tentative technical program for the workshop. Not listed here is registration, a reception Sunday evening, and a banquet/ social event on Monday evening.

The program includes short papers and full papers. Short papers are given a 20-minute time slot for presentation, full papers a 30-minute time slot. The speaker is expected to reserve time for questions.

Sunday, September 6

7-9 pm

Registration and reception at Princeton Center for Information

Technology Policy, Sherrerd Hall

Monday, September 7

9:00

Welcome and opening remarks

9:30-10:30

Watermarking I

Two Key Estimation Techniques for the Broken-Arrows Watermarking Scheme

Patrick Bas, CNRS, and Andreas Westfeld, TW Dresden

An efficient buyer-seller watermarking protocol based on composite signal representation

Mina Deng, IBBT-COSIC, K.U. Leuven; Allesandro Piva, University of Florence; Tiziano

Bianchi, University of Florence; Bart Preneel, IBBT-COSIC, K.U. Leuven

10:30-11:00 Coffee Break

11:00-12:00

Watermarking II

Reversible Data Hiding Using Additive Prediction-Error Expansion

Ming Chen, Zhenyong Chen, Xiao Zeng and Zhang Xiong

School of Computer Science and Engineering, Beihang University

Additive spread-spectrum watermark detection in demosaicked images

Peter Meerwald and Andreas Uhl,

Department of Computer Sciences, University of Salzburg

Optimization of Natural Watermarking Using Transportation Theory

Benjamin Mathon, Patrick Bas, Francois Cayre, GIPSA-LAB, dept IS-UMR; Benoit Macq,

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TELE

12:00-1:30 Lunch

1:30-2:50

Forensics I

Exposing Digital Forgeries in Video by Detecting Double Quantization

Weihong Wang and Hany Farid, Department of Computer Science, Dartmouth College

Unweighted Fusion in Microphone Forensics using a Decision Tree and Linear Logistic Regression Models

Christian Kraetzer, Maik Schott, and Jana Dittmann, Department of Computer Science, Research Group Multimedia and Security Otto-von-Guericke-University of Magdeburg, Germany

MP3 Bit Rate Quality Detection through Frequency Spectrum Analysis

Brian D'Alessandro and Yun Q. Shi, New Jersey Institute of Technology

2:50-3:20 Coffee Break

3:20-4:50

Steganalysis

Calibration Revisited

Jan Kodovský and Jessica Fridrich, SUNY Binghamton

Steganalysis by Subtractive Pixel Adjacency Matrix

Tomáš Pevný and Patrick Bas,
INPG - Gipsa-Lab; and Jessica Fridrich, SUNY Binghamton

The Square Root Law Requires a Linear Key

Andrew Ker, Oxford University Computing Laboratory

6:30pm

Banquet at the Mountain Lakes House, Princeton

Tuesday, September 8

9:00-10:00

Fingerprinting

Performance Study and Improvement on ECC-based Binary Anti-Collusion Forensic Code for Multimedia

W. Sabrina Lin, ECE Department, University of Maryland; Shan He and Jeffrey Bloom, Content Security Research Group, Thomson Corporate Research

EM decoding of Tardos traitor tracing codes

Teddy Furon, Thomson Security Lab; and Luis Pérez-Freire, Gradiant, ETSI Telecom., Lagoas Marcosende s/n

10:00-10:30 Coffee Break

10:30-11:50

Forensics II

Detection of Seam Carving and Localization of Seam Insertions in Digital Images

Anindya Sarkar, Lakshmanan Nataraj and B. S. Manjunath, Vision Research Laboratory,
University of California, Santa Barbara

Defeating Fake-Quality MP3

Rui Yang,

School of Information Science and Technology Sun Yat-sen University; Yun Q. Shi,
Department of Electrical and Computer Engineering, New Jersey Institute of Technology;
and Jiwu Huang, School of Information Science and Technology, Sun Yat-sen University

A Pixel-Based Digital Photo Authentication Framework via Demosaicking Inter-Pixel
Correlation

Cheng Jin, Dept. Computer Science and Engineering, Shanghai Jiaotong University; Na
Fan, Department of Electrical Engineering, East China Normal University; Yizhen Huang,
Computer Sciences Department, University of Wisconsin-Madison

12:00-1:30 Lunch

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Steganography

Less detectable JPEG steganography method based on heuristic optimization and BCH
syndrome coding

Vasiliy Sachnev, Hyoung Joong Kim and Rongyue Zhang, Korea University, CIST
Graduate School of Information Management and
Security

Improved Embedding Based on a Set of Cover Images

Elke Franz, Stefan Rönisch and Robert Bartel, Dresden University of Technology Institute
for System Architecture

A Supraliminal Channel in a Wireless Phone Application

Scott Craver and Enping Li, Binghamton University

2:50-3:20 Coffee Break

3:20-4:30

Encryption

Entropy Codec Based on Evolutionary MHT and Its Application in Video Encryption

Yun Cao, Xianfeng Zhao and Dengguo Feng, State Key Laboratory of Information Security,
Information Security Institute of Software, Chinese Academy of Sciences

Selective Encryption of the MC EZBC Bitstream for DRM Scenarios

Heinz Hofbauer and Andreas Uhl, Department of Computer Sciences, University of
Salzburg

BLINK: Pixel-Domain Encryption for Secure Document Management

Idris Atakli, Qing Wu, Yu Chen and Scott Craver, Binghamton University

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04th Sep 2009

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CALL FOR PAPERS

**11th ACM Multimedia and Security Workshop
September 7-8, 2009, Princeton, New Jersey USA**



**ACM Multimedia and Security Workshop
September 7-8, 2009**

ORGANIZING COMMITTEE:

General Chair/ Local Arrangement Chair and Treasurer

Edward W. Felten
Professor of Computer Science and
Public Affairs Director, *Center for
Information Technology Policy*
Princeton University, USA

Program Chairs

Jana Dittmann
*Otto-von-Guericke University Magdeburg,
Germany*
Jessica Fridrich
SUNY Binghamton, USA
Scott Craver
SUNY Binghamton, USA

Program Committee

Mauro Barni
Patrick Bas
Patrizio Campisi
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Alex Halderman
Stefan Katzenbeisser
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Heung-Kyu Lee
B. S. Manjunath
Nasir Memon
Fernando Perez-Gonzalez
Balakrishnan Prabhakaran
Janice Y. Tsai
Claus Viehauer
Sviatoslav Voloshynovskiy
Min Wu

Time Schedule

Submissions start: February 1, 2009
Submissions end: April 30, 2009
Authors notified: June 20, 2009
Camera ready by: July 5, 2009
Workshop: September 7-8, 2009

Workshop Website:

<http://www.mmsec09.com>

The 11th ACM Multimedia and Security Workshop MM&Sec will be held in Princeton, NJ, at Princeton University. Its objective is to identify key future research issues in the areas of multimedia security such as data protection, media forensics, hidden communications and security issues in biometrics---as well as topics in technology policy and legal issues pertaining to multimedia security. We expect the workshop to motivate this research and to establish fruitful relationships with key actors from academia, industry, and government in the US and European and Asian countries. It will consist of invited papers, full papers, short papers, and possibly a rump or a panel session. This event continues a successful series of workshops started in 1998.

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SCOPE AND PAPERS

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Topics include but are not limited to:

- Multimedia watermarking, fingerprinting and identification
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- Legal and policy issues as well as their interaction with technological development
- Security evaluation and benchmarks
- Digital media forensics
- Emerging applications
- Practical systems exhibiting data hiding characteristics

In particular, this call for papers requests full papers with a high degree of innovations as well as short papers with interesting improvements of prior art or position papers on new ideas and research directions. Full papers should be 6-10 pages long, short papers 4-6 pages long (ACM format <http://www.acm.org/sigs/pubs/proceed/template.html>). Accepted papers will be published in the ACM workshop proceedings.

Submission Deadline April 30, 2009

Authors are invited to submit, online, full or short papers by indicating the type of the paper (full/short) in electronic format (PDF or PostScript) to the URL <https://cmt.research.microsoft.com/ACMMMS2009/>. Create a new user account, login, and follow the submission instructions.

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A clickable campus map can be found at this [link right here](#). Note the following important locations:

- The conference venue is the Friend Center, attached to the Computer Science building. The Sunday reception will be held in Sherrerd Hall, across the courtyard from the Friend Center. This is about 0.4miles from the Nassau Inn. The reception starts at 7pm on Sunday.
- The Dinky Station is where the train from New York arrives on campus. This is south of the Nassau Inn, across campus by about 0.4 miles.
- The Nassau Inn is not on this map, but it is right above 1 Palmer Square in the top center. The Inn is in the square, just past the post office.

The Banquet venue is the Mountain Lakes House, at 57 Mountain Avenue. This is a little under a mile from the Hotel, to the north.

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04th Sep 2009

Things to do in Princeton

Princeton is a small but upscale town with a thriving downtown, the Nassau Inn being right in the middle. Across from the hotel is the university campus, whose tranquil and pastoral architecture is work exploring. Beyond this, here is a list of specific locations worth checking out.

- **Visit the Princeton Art Museum.** The Princeton Museum of Art is on campus, across from the Hotel.
Also, if you are an art buff, you may want to check out the tap room in the basement of the Nassau Inn: behind the bar is one of the few murals painted in place by Norman Rockwell. As is the case with many of his works, he painted himself into it.
- If you are in town on Sunday at 1pm, you may want to walk to the Graduate College and hear the weekly carillon concert. The graduate college is in the west end of campus, and sports a 20-ton carillon with 67 bells, one of the few in the country. Every week the carillon is played from 1 to 1:45pm.

• You are currently browsing the archives for the Uncategorized category.

• Call for Papers

◦ [Call for Papers \(pdf, 133K\)](#)

• Key dates

◦ Submissions start:

◦ [February 1, 2009](#)

◦ Submissions end:

◦ [May 7, 2009](#)

◦ Authors notified:

◦ [June 20, 2009](#)

◦ Camera-ready copies by:

◦ [July 5, 2009](#)

◦ Workshop:

◦ [September 7-8, 2009](#)

• Search

• [Log in](#)

- Visit the **Bent Spoon**. This is right in the same courtyard as the Nassau Inn, and features the best gelato in New Jersey.
- Visit **Grounds for Sculpture**. Off I295 driving towards Trenton, Grounds for Sculpture is a sculpture garden of unusual size. If you have a car, you might want to consider finding it.
- If you are a history buff and have a car, you may want to check out the **Princeton Battlefield**. This is the site of the **battle of Princeton**, a turning point in the American revolutionary war. The site includes a small museum, and a replanted shoot from the Mercer Oak (Gen. Hugh Mercer died at the foot of this tree, which finally fell down from strong winds in 2002.)
- See if you can find the steganographic message concealed in the exterior of the Computer Science building. This is the brick building merged with the Friend Center, our conference venue. Hint: the message payload is small, and it isn't anything you don't already know.

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21st Jul 2009

Registration Open

Registration is open for ACM MMSEC 2009, at **the RegOnline online registration site**.

The registration fees are as follows:

Before August 15		After August 15		Students	
ACM/SIG member	\$335.00	ACM/SIG member	\$385.00	Student	\$200.00
Non-member	\$385.00	Non-member	\$435.00		

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11th Dec 2008

MM&SEC 2009

NOTE: The submission deadline has been extended to May 7, 2009.

The 11th ACM workshop on Multimedia and Security will be held in Princeton, New Jersey, USA on September 7th and 8th of 2009.

OBJECTIVES

- Discussion of emerging technologies in digital multimedia authentication, encryption, identification, fingerprinting,

steganography and steganalysis, secure multimedia networking and biometric user authentication.

- Identification of critical high impact research problems addressing specific deficiencies in the field of secure multimedia distribution and consumption.
- Formulation of target applications of identified technologies in both the commercial, civilian, and military sectors.
- Exposition of legal, business and technology policy issues relevant to multimedia security.

Scope

Papers addressing security in multimedia processing, transmission, and consumption are welcomed. Both theoretical concepts dealing with fundamental performance issues and application-oriented contributions within this scope will be considered. Software and hardware demonstrations are highly encouraged.

Topics include, but are not limited to:

Topics include, but are not limited to,

- Multimedia watermarking, fingerprinting and identification.
- Multimedia authentication and encryption. Signal processing in encrypted domains.
- Steganography and steganalysis.
- Data hiding in biometrics, security issues of biometrics, biometric template protection, security in multimodal and multifactor authentication.
- Practical systems exhibiting data hiding characteristics.
- Digital media forensics.
- Multimedia network protection, privacy and security.
- Secure multimedia system design, trusted computing, and protocol security.
- Security evaluation and benchmarks.
- Emerging applications.
- Legal and business issues as well as their interaction with technological development.
- Issues of technology policy and public policy in multimedia security, for example DRM, copyright, privacy, interoperability and accessibility.

Paper submission and templates

The ACM formatting rules and templates can be found at

<http://www.acm.org/sigs/pubs/proceed/template.html>. Full papers should be 6–10

pages long, short papers 4–6 pages long.

To submit a paper, visit our submission site at <https://cmt.research.microsoft.com/ACMMMS2009/>. Create a new user account,

login, and follow the submission instructions.

These instructions can also be found on the submissions tab at the top of the page.

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