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IH&MMSec '23

Proceedings of the 2023 ACM Workshop on Information Hiding and Multimedia Security

Sponsored by

ACM SIGMM

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Daniel Moreira (Loyola University Chicago, USA)

Technical Program Chairs:

Aparna Bharati (Lehigh University, USA)
Cecilia Pasquini (Fondazione Bruno Kessler, Italy)
Yassine Yousfi (Comma.ai, USA)

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2023 Chairs' Welcome

Welcome to the 11th edition of the ACM Workshop on Information Hiding and Multimedia Security (IH&MMSec '23). This year's workshop continues the tradition of representing one of the prime events in information hiding and multimedia security, attracting researchers and practitioners worldwide.

Carrying on with the efforts of the previous edition to overcome the Pandemics and reunite the IH&MMSec community to present and discuss their work, this year's meeting is held fully in person at the Water Tower Campus of Loyola University Chicago, located right at the heart of the Windy City. Bathed by the fresh waters of Lake Michigan, Chicago is the 3rd largest city in the USA, with a strong, multiethnic, and multicultural community. Besides fostering Science and their research during the workshop, attendees have countless opportunities for outdoor city-wise activities, blessed by the beginning of the American Midwest Summer.

As usual, the workshop focuses on information-hiding topics, with a strong presence of state-of-the-art submissions in steganography and steganalysis, and digital watermarking. It also covers various multimedia security topics, with submissions addressing topics ranging from media security and privacy to media forensics and biometrics. Moreover, this year's edition brings a special session on trends and challenges in *DeepFake* creation, showing that the IH&MMSec community pays close attention to the recent threats of synthetic content supporting false narratives. We thank Jana Dittmann, Christian Krätzer, Claus Vielhauer, and Peter Eisert for their efforts in proposing and implementing the special session.

This year's call for papers attracted high-quality manuscripts from all over the globe, leading to 23 accepted papers after a carefully executed double-blind review process (with an acceptance rate of nearly 55%, thanks to the high quality of the submissions). The authors and their institutions span a large variety of nationalities, attesting to the international aspect of the workshop.

The following table summarizes this year's program content as a direct product of the accepted papers. All the short and full papers lead to 20- and 30-minute presentation slots, respectively.

Topic	**Paper Type**	**#**
Media Security and Privacy	short papers	2
	full papers	1
Steganography and Steganalysis	short papers	2
	full papers	6
Watermarking and Security	short papers	1
	full papers	1
Biometrics	short papers	3
	full papers	1
Special session on *DeepFake* creation	short papers	6
	full papers	0
Total	short papers	14
	full papers	9

Last but not least, we are delighted to announce the three keynote talks, whose speakers were selected and invited because of their distinct work and contributions to IH&MMSec:

- *Photoshop Fantasies* by Walter Scheirer (University of Notre Dame, USA).
- *Steganography on Mobile Apps* by Jennifer Newman (Iowa State University, USA).
- *On the Detection, Localization, and Reverse Engineering of Diverse Image Manipulations* by Xiaoming Liu (Michigan State University, USA).

Putting together this year's workshop was a team effort. We thank the authors and keynote speakers for submitting their work and providing the content of the program. We are also highly grateful to the Technical Program Committee members and all the selected reviewers, who diligently reviewed the manuscripts and provided feedback to the authors. Finally, we thank Loyola University Chicago for hosting and ACM (in particular SIGMM) for supporting the event.

We sincerely hope attendees and future readers find this program insightful and interesting.

IH&MMSec '23 General and Technical Program Chairs

Daniel Moreira
Loyola University Chicago, USA

Aparna Bharati
Lehigh University, USA

Cecilia Pasquini
Fondazione Bruno Kessler, Italy

Yassine Yousfi
Comma.ai, USA

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