

CSCML 2024

Eighth International Symposium on Cyber Security, Cryptology and Machine Learning December 19-20, 2024, Beer-Sheva, Israel - Virtual

<https://www.cscml.org/>

Dates:

Academic Track Submission deadline ~~July 6, 2024~~ **Extended to July 14, 2024**;
Academic Track Acceptance notification **August 13, 2024**;
Academic Track Camera-ready copy due **August 31, 2024**;
Pitch Track Submission deadline **December 2, 2024**;
PhD Track Submission deadline **December 2, 2024**

Keynote Speakers:

Roberto Baldoni;
former Director General at National Cybersecurity Agency of Italy;
Esti Peshin;
VP, General Manager, Cyber Division at IAI - Elta;
Elad Raz;
Founder and CEO, NextSilicon;
Andrew Yao;
Dean, Institute for Interdisciplinary Information Sciences;
(IIIS) at Tsinghua University;

Academic Research Track PC

Adi Akavia *University of Haifa, Israel*
Leonardo Aniello *University of Southampton, UK*
Grigorios Beligiannis *University of Patras, Greece*
Alex Biryukov *University of Luxembourg, Luxembourg*
Johannes Blömer *Paderborn University, Germany*
Carlo Blundo *Università di Salerno, Italy*
Ayman Boudguiga *CEA, France*
Zoran Bojkovic *University of Belgrade, Serbia*
Anat Bremner-Barr *Tel Aviv University, Israel*
Jakub Breier *TTCControl GmbH, Austria*
Michele Carminati *Politecnico di Milano, Italy*
Ramón A. Carrasco *Complutense University, Spain*
Luigi Catuogno *Università degli Studi di Napoli "Parthenope", Italy*
Donghoon Chang *IIIT, India*
Michele Ciampi *University of Edinburgh, UK*
Nir Drucker *IBM Research, Israel*
Karim Eldefrawy *SRI International*
Michael Elhadad **PC Co-Chair**, *Ben-Gurion University, Israel*
Brett Hemenway Falk *University of Pennsylvania, USA*
Michael Fire *Ben-Gurion University, Israel*
Clemente Galdi *Università di Salerno, Italy*
Niv Gilboa *Ben-Gurion University, Israel*
Gabriel Gomes de Oliveira *Universidade Estadual de Campinas, Brazil*
Gheorghe Grigoras *Technical University of IASI, Romania*
Ehud Gudes *Ben-Gurion University, Israel*
Mordechai Guri *Ben-Gurion University, Israel*
Lucjan Hanzlik *CISPA, Germany*
Xiaolu Hou *Slovak University of Technology, Slovakia*
Christos Kaklamanis *University of Patras, Greece*
R. Kishore *SSN CE, Chennai, India*
Vladimir Kolesnikov *Georgia Institute of Technology, USA*
Manish Kumar *Bar Ilan University, Israel*
Mirosław Kutylowski **PC Co-Chair**, *NASK, Poland*
Baiyu Li *Google*
Rao Li *University of South Carolina Aiken, USA*
Vasiliki Liagkou *University of Ioannina, Greece*
Sachin Lodha *TCS Research, India*
Anna Lysyanskaya *Brown University, USA*
Subhamoy Maitra *India Statistical Institute, India*
Donato Malerba *Università degli Studi di Bari Aldo Moro, Italy*
Wissam Mallouli *Montimage, France*
Oded Margalit *Ben-Gurion University and Next Silicon, Israel*
Kevin Matthe Caramancion *University of Wisconsin-Stout, USA*
Daniel Menasché *Federal University of Rio de Janeiro, Brazil*
Avi Mendelson *Technion, Israel*
Mimmo Parente *Università di Salerno, Italy*
Sarvar Patel *Google*
Antonio Pecchia *Università degli Studi del Sannio, Italy*
Giuseppe Persiano **PC Co-Chair**, *Università di Salerno, Italy*
Dong Hieu Phan *Institut Polytechnique de Paris, France*
Yuval Pinter *Ben-Gurion University, Israel*
Ely Porat *Bar Ilan University, Israel*
Addison Salazar *Universitat Politècnica de València, Spain*
Palash Sarkar *Indian Statistical Institute, India*
Berry Schoenmakers *Eindhoven Univ. of Technology, Netherlands*
Priyanka Singh *SRM University, India*
Paul Spirakis *University of Liverpool, UK*
Andrea Vitaletti *Sapienza University of Rome, Italy*
Chaoping Xing *Shanghai Jiao Tong University, China*
Oğuz Yayla *Middle East Technical University, Türkiye*
Kevin Yeo *Google*

Entrepreneurship Track PC - Partial

Rutie Adar *Samsung Catalyst Fund, Israel*
Miriam Bashan *JAL Ventures Fund, Israel*
Yonah Alexandre Bronstein **Co-Chair**, *ASTAV inc, Israel*
Shlomi Dolev **Co-Chair**, *BGU-NHSA, Israel*
Dorit Dor *Check Point, Israel*
Nimrod Gerber *Vital Capital, Cyprus*
Ben Gilad *Tata Consultancy Services, Israel*
T S Giridharan *SSN iFound, India*
Naftaly Gluskin *Essentia Ventures, USA*
Roman Gold *Venture Israel, Israel*
Karina Rubinstein *InNegev, Israel*
Hemdat Sagi *Konnect, Israel*
Amir Tzach *InNegev, Israel*
Yaron Wolfsthal *IBM, Israel*

PhD Masters Track PC

Oded Margalit

Chair, *Ben-Gurion University and Next Silicon, Israel*

Chairs and Conference Committee: Yonah Alexandre Bronstein, Pitch Co-Chair *AS-TAV inc, Israel*; Shlomi Dolev, **Chair** *Ben-Gurion Univ., Israel*; Michael Elhadad, PC Co-Chair *Ben-Gurion Univ., Israel*; Mirosław Kutylowski, PC Co-Chair *NASK, Poland*; Oded Margalit, PhD Track Chair *Ben-Gurion University and Next Silicon, Israel*; Giuseppe Persiano, PC Co-Chair *Università di Salerno, Italy* Sara Widerker, Org. Chair *Ben-Gurion Univ., Israel*;

Steering Committee: Orna Berry *CTO Google Cloud, Israel*; Shlomi Dolev, **Chair** *Ben-Gurion Univ., Israel*; Yuval Elovici *Ben-Gurion Univ., Israel*; Bezalel Gavish *Southern Methodist Univ., USA*; Ehud Gudes *Ben-Gurion Univ., Israel*; Jonathan Katz *Univ. of Maryland, USA*; Raffail Ostrovsky *UCLA, USA*; Jeffrey D. Ullman *Stanford Univ., USA*; Kalyan Veeramachaneni *MIT, USA*; Yaron Wolfsthal *IBM, Israel*; Moti Yung *Columbia Univ. & Google, USA*

Scope. Original contributions to the theory, design, analysis, implementation, or application of cyber security, cryptography, and machine learning systems and networks. In particular, *conceptually innovative results* are solicited. Topics of interest include, but are not limited to:

• **Cyber Security Design** Secure Software Development methodologies, Formal methods, Semantics and verification of secure systems, Fault tolerance, Reliability, Availability of distributed secure systems, Game-theoretic approaches to secure computing, Automatic recovery, Self-stabilizing, and self-organizing systems, Communication, Authentication and identification, Cyber security for mobile and Internet of Things, Cyber security of corporations, Security and privacy for cloud, Edge and fog computing, Cryptocurrency, and Blockchain. • **Cryptology** Cryptographic implementation analysis and construction, Secure multi-party computation, Privacy-enhancing technologies and anonymity, Post-quantum cryptography and security. • **Machine Learning & Big Data** Anomaly detection and malware identification, Business Intelligence and Security, Digital forensics, Digital rights management. *This year, submissions relying on NLPs and especially LLMs are encouraged.* Trust management and reputation systems, Information retrieval, Risk analysis, DoS.

Conference presentations will have two formats (you can find more information about the submission formats for CSCML 2024 by clicking on the following link:

1. Regular presentations of 20-25 minutes accompanied by papers of up to 15 pages in the proceedings. This form is intended for contributions reporting on original research, submitted exclusively to this conference.

2. Short Papers of 5-10 minutes accompanied by papers of 6-11 pages in the proceedings. No appendices are allowed. Such submissions may describe work in progress or work presented elsewhere.

3. Entrepreneurship Pitch of 5-10 minutes accompanied by six page abstracts/pitch presentation.

Submission. Papers are to be submitted electronically, following the guidelines available on the conference web page.

Each submission must be in English, in PDF format, and begin with a cover page including: (1) the title, (2) the names and affiliations of all authors, (3) contact author's email and address, (4) a couple of paragraphs abstract of the paper, (5) indication whether the paper is a regular submission, a short paper, an entrepreneurship pitch submission (the authors of the entrepreneurship pitch track please note that the submissions will not be NDA protected), or PhD/ Masters Track.

A regular submission must not exceed 15 (LNCS formatted) single-column pages (excluding cover page and references). Additional necessary details may be included in a clearly marked appendix that will be read at the discretion of the program committee. A short paper submission must not exceed 6 single-column pages. All submissions must use LNCS format. Any submission deviating from these guidelines may be rejected without consideration of its merit.

It is recommended that a regular submission begin with a succinct statement of the problem or the issue being addressed, a summary of the main results or conclusions, a brief explanation of their significance, a brief statement of the key ideas, and a comparison with related work, all tailored to a non-specialist. Technical development of the work, directed to the specialist, should follow. Papers outside of the conference scope will be rejected without review. If requested by the authors on the cover page, a regular submission can also be considered as a short paper. **Additional Planned Events.** PhD Track and "Capture the Flag" Hackathon are planned to take place during CSCML 2024.

Publication. Regular papers will be included in the Springer LNCS conference proceedings. Extended and revised versions of selected papers will be considered for a special issue of the *Journal of Cryptography and Communications*.