

The Ninth Symposium on Cyber Security, Cryptology and Machine Learning (CSCML 2025)

December 04-05, 2025

Tentative Full Program Schedule

Thursday, December 04, 2025				
Time	Main Room/ Academic Research Track		Other Tracks	
08:15–08:20 Israel Time UTC +2	Opening Ceremony: Professor Shlomi Dolev			
08:20–09:10 Israel Time UTC +2	Keynote Speaker 1: Alon Kaufman Talk Titled: From Cryptographic Theory to Engineered Reality: Building Scalable Digital Sovereignty and Secure AI Solutions			
			8:15–8:45	Zoom Meeting to open the competition.
09:10–10:20 Israel Time UTC +2	Academic Track: Morning Session Moderator: Shlomi Dolev		PhD/ Masters Track Session 1: 9:05-10:20 Moderator: Oded Margalit	
	09:10–09:25	Improved Range Searching And Range Emptiness Under FHE Using Copy-And-Recurse Hayim Shaul and Eyal Kushnir	9:05–9:10	Welcome and Instructions
	09:25–09:40	Location Problems with Privacy Eric Kulikov and Michael Segal	9:10–9:20	
	09:40–09:55	Similarity-Based Retrieval over Homomorphic Encryption Ramy Masalha, Adi Akavia, and Reut Meiri	9:20–9:30	
		A Generalized Wiener-type Attack Against an RSA-like	9:30–9:40	

	09:55–10:10	Cryptosystem George Tesseleanu	9:40–9:50	
	Short: 10:10–10:20	Kolmogorov complexity based analysis of the zero distribution in LMSTAs of random k-SAT formulas Yannis Stamatiou, Vasiliki Liagkou, Paul Spirakis and Panagiotis Nastou	9:50–10:00	
10:20–10:45 Israel Time UTC +2	Break		Break	
10:45–12:10 Israel Time UTC +2	Academic Track: Mid-Morning Session Moderator: Shlomi Dolev		PhD/ Masters Track Session 2: 10:45-12:00 Moderator: Oded Margalit	
	10:45–11:00	Multi-party Time-lock Puzzles: Quorum Controlled Delays without a Single Point of Failure Karim Eldefrawy, Sashidhar Jakkamsetti, Benjamin Turner, and Moti Yung	10:45–10:50	Welcome and Instructions
	11:00–11:15	Robust and Verifiable MPC with Applications to Linear Machine Learning Inference Tzu-Shen Wang, Jimmy Dani, Juan Garay, Soamar Homs, and Nitesh Saxena	10:50–11:00	
	11:15–11:30	From Adversity to Advantage: Diffusion Models for Improved Detection Under Attack Roie Kazoom, Raz Birman, and Ofer Hadar	11:00–11:10	
	Short: 11:30–11:40	Machine Learning-Based Malware Detection on macOS (regular submission)	11:10–11:20	
			11:30–	
			11:40–11:50	

		Adrian Guo Xiang Low and Leonardo Aniello		
	Short: 11:40– 11:50	Insights into Learning Broadcast Protocols Dana Fisman, Noa Izsak, and Swen Jacobs	11:40– 11:50	

	Short: 11:50– 12:00	Predictive Enhancement of RBAC Policies Using Access Log Analytics Shmuel Amour and Ehud Gudes		
	Short: 12:00– 12:10	Books, Rooms, and Searle George Teseleanu		
12:10– 12:35 Israel Time UTC +2	Break		Break	
12:35– 13:50 Israel Time UTC +2	Academic Track: Noon Session Moderator: Shlomi Dolev		Entrepreneurship Session 1: 13:05-13:55 Moderator: Yonah Alexandre Bronstein	
	12:35– 12:50	Bitcoin+: Cheap Support for Complex Spending Conditions in a UTXO Ledger Yaron Kaner and Tal Moran	13:00– 13:05	Welcome and Instructions
			13:05– 13:20	Neural Multimodal IR–Visible Fusion for Real-Time Color Reconstruction in Low-Visibility Conditions Omer Linton and Michael Orkin
	12:50– 13:05	Random Data and Its Cryptographic Applications Eda Yavuziyigit and Oğuz Yayla	13:20– 13:35	Securing the Connected Car: A Multi-Layered Defense Against DoS, Spoofing, and Replay Attacks Haim Spaya
			13:35– 13:50	TwinkleQKD: Affordable, Resilient Quantum Key Distribution for All Shlomi Dolev
			13:50– 14:05	Physics-Guided Multimodal Fusion Daniel Shlomo
	13:05– 13:20	Real-World Deployment of Privacy-Preserving Machine Learning for Public Opinion in the 2024 U.S. Presidential Election Samuel Buxbaum, Lucas Tassis, Lucas Boschelli, Dino Christenson, Giovanni Comarela, Mark Crovella and Mayank Varia	14:05– 14:20	

	13:20–13:35	Extended Meet in the Middle Attacks Using Cryptanalytic Approximations as DMZ Stav Elbar
	Short: 13:35–13:45	Avatar PLC/SCADA: Cloud Half-Twin for Industrial Control Systems Alon Dankner, Shlomi Dolev and Ehud Gudes
	Short: 13:45–13:55	Automatically Reviewing Movie Plots with LLMs Milka Kaplan, Armin Shmilovici and Mark Last

13:55–14:50 Israel Time UTC +2	Keynote Speaker 2: Bobby Blumofe Talk Titled: Why AI Will Rewrite the Cybersecurity Playbook Hosted by: Shlomi Dolev			
14:50–16:00 Israel Time UTC +2	Academic Track: Afternoon Session Moderator: Ehud Gudes		Entrepreneurship Session 2: 15:00-16:15 Moderator: Yonah Alexandre Bronstein	
	15:35–15:50	Meta-autoencoders: An approach to discovery and representation of relationships between dynamically evolving classes Assaf Marron, Smadar Szekely, Irun Cohen, and David Harel		
	Short: 15:50–16:00	Resiliency Trade-offs of DNSSEC Configurations to DDoS Attacks Daniel Dubnikov, Yehuda Afek, and Anat Bremner-Barr	14:20–14:35	Voting for the Three Best Pitches and wrapping up the session. The three best pitches will present their pitches again for 5 minutes each in front of the whole audience (main room) from 16:50-17:20, for a finalist to be chosen.

16:00-16:30 Israel Time UTC +2	<p align="center">Pitch Finalist Ceremony</p> <p align="center"><i>Hosted By: Shlomi Dolev and Yonah Alexandre Bronstein</i></p> <p align="center">The three finalists from the Entrepreneurship (Pitch) Track will have 5 minutes to present their pitch again to the entire CSCML audience. Then the entire audience will get to vote for the best pitch.</p>	
16:30–17:30 Israel Time UTC +2	<p align="center">Keynote Speaker 3: Alex Pentland</p> <p align="center">Talk Titled:</p> <p align="center">Hosted by: Shlomi Dolev</p>	
17:30-17:55 Israel Time UTC +2	<p align="center">Academic Track: Evening Session</p> <p align="center">Moderator: Rami Puzis</p>	
	<p>17:30-17:45</p> <p>Contamination in Generated Text Detection Benchmarks</p> <p>Philipp Dingfelder and Christian Riess</p>	
	<p>Short: 17:45-17:55</p> <p>PQ-STAR: Post-Quantum Stateless Auditable Rekeying (Brief Announcement)</p> <p>Shlomi Dolev, Avraham Yagudaev, and Moti Yung</p>	
	<p>Short: 17:55-18:05</p> <p>SSPT: Shallowest Shortest Path Tree</p> <p>Omer Asher, Yefim Dinitz, Shlomi Dolev, Li-On Raviv, and Baruch Schieber</p>	
18:05-18:15 Israel Time UTC +2	<p align="center">Closing Ceremony/ Remarks</p> <p align="center">Hosted by: Professor Shlomi Dolev</p>	