The Eighth Symposium on Cyber Security, Cryptology and Machine Learning (CSCML 2024)

December 19-20, 2024

Final Full Program Schedule

Thursday, December 19, 2024				
Time	**Main Room/ Academic Research Track**		**Other Tracks**	
8:00-8:10 Israel Time UTC +2	**Opening Speech:** **Professor Shlomi Dolev**			
8:15-08:55 Israel Time UTC +2	**Keynote Speaker 1: Andrew C. Yao** Dean of the Institute for Interdisciplinary Information Sciences (IIIS) at Tsinghua University **Talk Titled:** *Cryptography in the Age of Bio, Quantum and AI* Hosted By: Giuseppe Persiano		**CAPTURE THE FLAG**	
			8:15-8:45	Zoom Meeting to open the competition.
9:00-10:40 Israel Time UTC +2	**Academic Track: Morning Session** Moderator: Michael Elhadad		**PhD/ Masters Track Session 1:** Moderator: Oded Margalit	
	9:00-9:20	**Polynomial Adaptation of Large-Scale CNNs for Homomorphic Encryption-Based Secure Inference** Moran Baruch, Nir Drucker, Gilad Ezov, Eyal Kushnir, Jenny Lerner, Yoav Goldberg, Omri Soceanu and Itamar	**9:05-9:10**	Welcome and Instructions
	9:20-9:40	**Evaluation of Posits for Spectral Analysis Using a Software-Defined Dataflow Architecture** Sameer Deshmukh, Daniel Khankin, William Killian, John Gustafson, and Elad Raz	**9:10-9:20**	**Ad Hoc Blockchain for Private Contracts** Hillel Avni, Shir Buchner, Shlomi Dolev, and Moti Yung
	9:40-10:00	**Robust Secure Aggregation for Co-located IoT Devices with Corruption Localization** Giovanni Di Crescenzo, Elina van Kempen and Gene Tsudik	**9:20-9:30**	**Deep Learning-based Network Intrusion Detection System using Image Data** Leonard Mutembei, Makhamisa Senekane and Terence van Zyl
	10:00	**Spoofing-robust speaker verification based on time-domain embedding**	**9:30-9:40**	**Emergency Vehicle Accommodation in Dynamic Traffic Scheduling** Amit Hendin

	10:20	Avishai Weizman, Yehuda Ben-Shimol and Itshak Lapi	9:40-9:50	**Fast Real-World Classification of ECH-enabled Applications** Yizhak Kahana, Yaakov Stein, Gabriel Zigelboim and Oren Glickman
	Short: 10:20-10:30	**A Probabilistic Model for Rounding Errors: A New Look at the Table-Maker's Dilemma** Jonathan Devor, Daniel Khankin, and Oded Margalit		
	Short: 10:30-10:40	**Behavior-Driven Access Policy Prediction** Shmuel Amour and Ehud Gudes	9:50-10:00	**Bloom Filter Look-Up Tables for Private and Secure Distributed Databases in Web3** Shlomi Dolev, Ehud Gudes, and Daniel Shlomo
10:50-12:50 Israel Time UTC +2	**Academic Track: Mid-Morning Session** Moderator: Daniel Sadoc Menasche		**PhD/ Masters Track Session 2:** Moderator: Oded Margalit	
	10:50-11:10	**Provable Imbalanced Point Clustering** David Denisov, Dan Felmdan, Shlomi Dolev and Michael Segal	10:45-10:50	Welcome and Instructions
	11:30-11:50	**Mezzo TLS 1.3 protocol, suitable for transmitting already-encrypted data** Nir Drucker and Shay Gueron	10:50-11:00	**LLM-Based De-Anonymization** Shlomi Dolev and Rie Ruash
	11:50-12:10	**LLMSecCode: Evaluating Large Language Models for Secure Coding** Anton Rydén, Erik Näslund, Elad Michael Schiller and Magnus Almgren	11:00-11:10	**Non-tandem spoofing robust speaker verification Technical Report** Amro Asali, Yehuda Ben-Shimol and Itshak Lapidot
	12:10-12:30	**Distributed Verifiable Random Function with Compact Proof** Ahmet Ramazan Ağırtaş, Arda Buğra Özer, Zülfükar Saygı and Oğuz Yayla	11:10-11:20	**Teaching CS101 Using Competitive Programming** Ofer Wald, Judith Gal-Ezer and Nezer Zaidenberg
	Short: 12:30-12:40	**On the overflow and p-adic theory applied to homomorphic encryption** Jacob Blindenbach, Jung Hee Cheon, Gamze Gursoy and Jiayi Kang	11:20-11:30	**Finding a Vertex-wise Minimum Depth Tree\\ Among the Shortest Path Trees** Omer Asher, Yefim Dinitz, Shlomi Dolev, and Li-On Raviv
	Short:	**Beneath the Cream: Unveiling Relevant Information Points**	11:30-11:40	**LLMs Hallucinations Prevention via Automated Reality Confrontations** Shlomi Dolev and Ilia Mashevitsky

	12:40-12:50	**from CrimeBB with Its Ground Truth Labels** Felipe Moreno, Daniel Sadoc Menasche and Cabral Lima		

13:00-13:45 Israel Time UTC +2	**Keynote Speaker 2: Esti Peshin** VP & General Manager of the Cyber Division at the Israel Aerospace Industries Ltd. **Talk Titled:** *Cyber Resilience in the AGI Era* Hosted by: Michael Elhadad	
13:50-14:40 Israel Time UTC +2	**Academic Track: Noon Session** Moderator: Gaurav Kumar Srivastava	**Entrepreneurship Session:** Moderator: Yonah Alexandre Bronstein
13:50-14:10	**Fiat-Shamir in the Wild** Duy Hieu Nguyen, Huynh Thanh Uyen Ho and Alex Biryukov	**12:20-12:30** Welcome and Instructions
12:40-13:00	**Predicting the degradation rate of technical systems at early stages of development** Sergey Frenkel	**12:30-12:40** **Development of Assistive Technologies for injured IDF veteran** Professor Shlomi Arnon
13:00-13:20	**Reminisce for Securing Private-keys in Public** Shlomi Dolev, Komal Kumari, Sharad Mehrotra, Baruch Schieber and Shantanu Sharma	**12:40-12:50** **Stargo** Tal Einhoren
		12:50-13:00 **Objective pain measurement** Dr. Segal Yoram
		13:00-13:10 **Reconstruction of The Attack Graph in DDoS Attacks** Dina Barak
		13:10-13:20 **BiolomiX** David Toubiana
13:20-13:40	**Minimally Intrusive Access Management to CDNs based on Models and Access Patterns** Lenise Rodrigues, Daniel Menasché, Arthur Serra and Antônio Rocha	**13:20-13:30** **BioSOC: Cybersecurity-Inspired Biosecurity Platform for Synthetic DNA Screening** Vladislav Kogan
		13:30-13:40 **Nerlnet** David Leon
13:40-14:00	**Cybersecurity Enhancement for Wireless Networks Using Aerial Reconfigurable Intelligent Surfaces** Rajnish Kumar and Shlomi Arnon	

	Short: 14:00-14:10	**KNN+X** Daniel Gilkarov, Lee-Ad Gottlieb and Hillel Oyahon	
	Short: 14:10-14:20	**Challenges in Timed-Cryptography: A Position Paper** Karim Eldefrawy, Benjamin Terner and Moti Yung	

14:20 14:40 Israel Time UTC +2	**Pitch Finalist Ceremony** *Hosted By:* Yonah Alexandre Bronstein **The three finalists from the Entrepreneurship (Pitch) Track will have 5 minutes to present their pitch again before the entire audience of CSCML. Then the audience will get to vote for the best pitch.**	**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 14:20 to 14:40, for a finalist to be chosen.
14:40-15:25 Israel Time UTC +2	**Keynote Speaker 3: Roberto Baldoni** Former Director General at National Cybersecurity Agency of Italy **Talk Titled:** *Charting Digital Sovereignty* Hosted by: Mirosław Kutyłowski	
15:30-17:30 Israel Time UTC +2	**Academic Track: Evening Session** Moderator: Dayana Dyachenko	
	15:30-15:50 — **On the Effects of Neural Network-based Output Prediction Attacks on the Design of Symmetric-key Ciphers** Hayato Watanabe, Ryoma Ito and Toshihiro Ohigashi	
	15:50-16:10 — **Entanglement-based Mutual Quantum Distance Bounding** Aysajan Abidin, Karim Eldefrawy and Dave Singelee	
	16:10-16:30 — **Password-authenticated Cryptography from Consumable Tokens** Ghada Almashaqbe	
	Short: 16:30-16:40 — **OWF Candidates Based on: Xors, Error Detection Codes, Permutations, Polynomials, Interaction, and Nesting** Paweł Cyprys, Shlomi Dolev and Oded Margali	
	Short: 16:40-16:50 — **Super-Teaching in Machine Learning** Dina Barak-Pelleg, Daniel Berend and Aryeh Kontorovich	
	Short: 16:50-17:00 — **A Lattice Attack Against a Family of RSA-like Cryptosystems** George Teseleanu	
	Short: 17:10-17:20 — **On the security-related properties of randomly constructed combinatorial structures** Vasiliki Liagkou, Panagiotis Nastou, Paul Spirakis and Yannis Stamatiou	

	Short: 17:20-17:30	**HBSS+: Simple Hash-Based Stateless Signatures revisited** Przemysław Kubiak and Oliwer Sobolewski	
17:35 18:00 Israel Time UTC +2		**Closing Ceremony/ Blessing** **Hosted by: Professor Shlomi Dolev**	

Friday, December 20 2024	
Time	**Event**
11:00-11:15 **Israel Time** **UTC +2**	**Welcome** Hosted by: Professor Shlomi Dolev
11:20-12:00 **Israel Time** **UTC +2**	**Keynote Speaker 3:** Elad Raz **Founder of NextSilicon** **Talk Titled: Reimagining Innovation: Overcoming Challenges to Lead the Next Generation of Compute** Hosted by: Oded Margalit
12:05-12:45 **Israel Time** **UTC +2**	**Keynote Speaker 4:** Claire Vishik **Senior Director of Trust Technology & Policy and a Senior Principal Engineer at Intel.** **Talk Titled: Cognitive Hacking: New Frontier in Cybersecurity** Hosted by: Shlomi Dolev
12:50-13:30 **Israel Time** **UTC +2**	**Keynote Speaker 5:** Sol (Shlomo) Gradman **CEO ASG Ltd., Chairman, Israel High Tech CEO Forum, [Founder of ChipEx, iNNOVEX, DevelopEX & Silicon Club]** **Talk Titled: East vs. West in the Age of Machine Learning & AI** Hosted by: Shlomi Dolev
13:30-14:10 **Israel Time** **UTC +2**	**Israeli Music Post October 7th** **Talk by Josh Hartuv**
14:10-14:35 **Israel Time** **UTC +2**	**Closing Ceremony/ Blessing** **Hosted by: Professor Shlomi Dolev**