		Hall B We1.1 Optics-1 Presider: Hagai Diamandi, Hebrew University		Hall A We1.2 Scattering and Propagation Presider: TBD		Hall C We1.3 Circuits-1 Presider: Freddy Gabbay, Hebrew University		Hall D We1.4 Signals-1 Presider: Nir Shlezinger, Ben-Gurion University		Hall E We 1.5 Cyber-1 Presider: Amit Dvir, Ariel University		Hall F We1.6 AI/ML-1 Presider: Igal Bilik, Ben-Gurion University
08:00-09:00		Welcome and Registration										
09:00-09:15	We1.1.1	Invited: Exploring Laser-Induced Strong-Field Ionization Phenomena: Toward Dynamic 4D Imaging and Beyond Eugene Frumker Ben-Gurion University	We1.2.1	Invited: Pulsed Hot Spots and Their Applications for Curved Beam Design Timor Melamed Ben-Gurion University	We1.3.1		We1.4.1	Target Tracking Using Range and Range-Rate Measurements with Axes Coupling Constraint Liat Peled-Eitan and Ilan Rusnak	We1.5.1	Invited: Using AI for detection of Routing Deflection Attacks Prof. Yuval Shavit Tel Aviv University	We1.6.1	Data augmentation for spoofing-robust automatic speaker verification Shani Budilovsky, Yehuda Ben-Shimol and Itshak Lapidot
09:15-09:30					We1.3.2	Invited: "More than Moore: The Package Is the Computer" Prof. Leonid Yavits Bar-Ilan University	We1.4.2	Conformal Prediction-Aware DOA Tracking Maya Veisman Barness, Sharon Gannot and Bracha Laufer Goldshtein	We1.5.2		We1.6.2	Reservoir Computing with Memristive Neural Networks for Image Classification Rishona Daniels, Ronny Ronen, and Shahar Kvatinsky
09:30-09:45	We1.1.3	Invited: Extreme confinement with hyperbolic cavities – a new platform for quantum light-matter interactions Hanan Sheinfux-Herzig Bar-Ilan University	We1.2.3	Deep Learning Architectures for Radio Wave Propagation Modeling: A Concise Overview Eran Greenberg	We1.3.3		We1.4.3	Unfolded Expectation-Maximization Neural Network for Speaker Localization Rina Veler and Sharon Gannot	We1.5.3	Analysis of Power Side-Channel Vulnerabilities in Memristor-Based Neuromorphic Systems Adam Antoshin, Ilan Lipschutz, and Shahar Kvatinsk	We1.6.3	Tutorial: The return of engineering in Computer Vision Prof. Yair Weiss Hebrew University
09:45-10:00			We1.2.4	Voltage along a quasi TEM transmission line hit by a plane wave Reuven Ianconescu and Vladimir Vulfin	We1.3.4	Sub-Nanosecond Polarization Dynamics and Switching Kinetics in HZO FeCAPs Mor Mordechai Dahan, Uwe Schroeder and Eilam Yalon	We1.4.4	Deep Unfolding with Approximated Computations Dvir Avrahami, Amit Milstein, Caroline Chaux, Tirza Routtenberg and Nir Shlezinger	We1.5.4	Measuring the Impact of Algorithmic Noise on Side-Channel Analysis Matan Elkoni, Yehuda Rudin, Yoav Weizman, Osnat Keren and Alexander Fish	We1.6.4	
10:00-10:15	We1.1.5	Practical Implementation of m-Plane GaN Terahertz Quantum Cascade Lasers with Reduced Current Density for Room Temperature Applications Shiran Levy, Nathalie Lander Gower, Silvia Piperno, Gad Bahir and Asaf Albo	We1.2.5	Pulsed Light Structures using Phase-space Methods Timor Melamed	We1.3.5	Unraveling Phase Change Memory Programming Energy Limits Rivka-Galya Nir-Harwood, Keren Stern and Eilam Yalon	We1.4.5	Adapting AI DoA Estimators via Downstream Tracking Shaul Konstantino, Lei Li, Nir Shlezinger, and Davide Dardari	We1.5.5	Too Easy Fault Injection Attacks on Learning with Rounding (LWR) Francesco Berti, Sasha Petri and Itamar Levi	We1.6.5	
10:15-10:30	We1.1.6	Bias-Modulated Optoelectronic Chromatic Dispersion in Photodiodes: a New Type of Spectral-information Pixel Uttama K Saint, Ziv Glasser, Endalamaw Ewnu Kassa, Egor Liokumovitch and Shmuel Sternklar	We1.2.6	Microwave Relativistic Motors Asher Yahalom	We1.3.6	The Critical Point Model as a Tool for Optimizing Organic Thin Film Transistors' Active Layer Morphology and Performance Tal Elbaz, P.R. Chithira, and Rafi Shikler	We1.4.6	Conformal Prediction Aided Kalman Filters with Confidence Intervals Olga Weisman, Nir Shlezinger and Bracha Laufer-Goldshtein	We1.5.6	Information Extraction with Physical Attacks and Safeguarding Information Reconciliation Protocols Roei Groner and Itamar Levi	We1.6.6	
10:30-11:00		Coffee Break										
		Hall B | We2 Plenary Session A										
11:00-11:30	We2.1.1	Behind the AI Revolution: From Silicon to Intelligence Mr. Ori Tadmor VP Operations, KLA - President, KLA Israel										
11:30-12:15	We2.1.2	Nvidia Israel-1 AI Factory Journey Mr. Dror Goldenberg Senior Vice President of Network Software Architecture at NVIDIA										
12:15-13:00	We2.1.3	Space-Based Intelligence Dr. Shimrit Maman Chairperson, Israel Space Agency | Senior scientist, BGU										
13:00-14:00		Lunch Break										

		Hall B We3.1 Optics-2 Presider: Pavel Sidorenko, Technion		Hall A We3.2 Microwave Circuits Presider: Timor Melamed, Ben-Gurion University		Hall C We3.3 Autonomous Vehicles Presider: Igal Bilik, Ben-Gurion University		Hall D We3.4 Signals-2 Presider: Sharon Gannot, Bar-Ilan University		Hall E We3.5 Gender Panel Presider: Prof. Hagit Messer-Yaron		Hall F We3.5 AI/ML-2 Presider: Nir Shlezinger, Ben-Gurion University
14:00-14:15	We3.1.1	Invited: Optomechanics Beyond the Cavity: Forces, Nonlinearity, and Distributed Dynamics Lior Michaeli Tel-Aviv University	We3.2.1	A Deep sub-micron 2.4GHz Watt Level Digital Power Amplifier based on Quad-Stacking Topology Naor R. Shay, David Ben-Haim, Elad Solomon, Yishai Eilat, Eran Socher and Ofir Degani	We3.3.1	Investigating generalized models of the Twistcar`s dynamics Rom Levy, Anna Zigelman and Yizhar Or	We3.4.1	Invited: Detection, source separation, and contextual inference of sperm whales' vocalizations Prof. Roee Diamant University of Haifa	We3.5.1	Women in Engineering Panel Organized by Prof. Hagit Messer-Yaron Panelists: • Dr. Orna Berry, Google Cloud + ScienceAbroad • Prof. Idit Keidar, Technion • Dr. Ronit Bustin, Toga Networks • Dr. Oded Margalit, Ben-Gurion University and NextSilicon **Note: Session will be in Hebrew**	We3.6.1	Learning to Refine LLRs: Neural Augmentation for MIMO-OFDM Receivers Ory Eger and Nir Shlezinger
14:15-14:30			We3.2.2	Ultra-Low Insertion Loss Stepped Impedance Resonator Topology for HTSC RF Front-End Ilan Kurtser, Yoav Koral, Eldad Holdengraber, Shmuel E. Schacham and Eliyahu Farber	We3.3.2	Asynchronous swarm-intelligence navigation for GPS-denied IMU-only drone swarms Guy Moshe Atias and Igal Bilik	We3.4.2				We3.6.2	Universal Agnostic Learning over Smooth Parametric Models Shlomi Vituri and Meir Feder
14:30-14:45	We3.1.3	SOI-Compatible Photonic Structures Exhibiting a Degenerate Band Edge Kessem Zamir-Abramovich and Jacob Scheuer	We3.2.3	A Unified Quality Factor Formula for Component Modeling Across Self-Resonance Itzhak Shapir and Tomer Paley	We3.3.3	Invited: Perception Challenges for Autonomous Robots in Unstructured Green Spaces Odi Dahan Husqvarna Tel Aviv Innovation Lab	We3.4.3	Acoustic Feedback Cancellation with DNN-based Step-Size Control Liron Pollak, Simona Lisker, Henning Schepker and Elior Hadad			We3.6.3	Adaptive Deadline and Batch Layered Synchronized Federated Learning Asaf Goren, Natalie Lang, Nir Shlezinger, Alejandro Cohen
14:45-15:00	We3.1.4	Broadband SiN Photonic 50:50 Power Splitters: Optimization and Performance Analysis of InverseDesigned MMI and Directional Couplers Aleksei Kukin and Dan M. Marom	We3.2.4	Analysis of GaN based high power N-path filter with linearity enhancement circuit Netanel Desta and Emanuel Cohen			We3.4.4	K-Divergence-Based Training of Deep Normalizing Flow Networks D. Bilik and K. Todros			We3.6.4	Enhancing sample efficiency in multi-agent rl with uncertainty quantification and selective exploration Tom Danino and Nahum Shimkin
15:00-15:15	We3.1.5	Noise Suppression in Gain-Managed Nonlinear Amplifiers Nitzan Haviv, Maksim Kozlov, Michael Krüger and Pavel Sidorenko	We3.2.5	An 8 bit RF-DAC for 5G in 28nm CMOS with 17dbm and 30% peak drain efficiency Tomer Ben Oz, Eran Socher, Emanuel Cohen			We3.4.5	Tangential velocity estimation using automotive radar M. Shifrin, J. Tabrikian and I. Bilik			We3.6.5	Invited: Efficient Training, Fast Inference: Reducing Memory Requirements and Inference Time of Foundation Models Prof. Ofir Lindbaum Bar-Ilan University
15:15-15:30	We3.1.6	All-Optical Logic Gates and Programmable Signal Control in Polymer Photonic Meshes Amir Handelman, Coral Raz and Alexandra Inberg					We3.4.6	Time-based Amplitude Sampling Hila Naaman and Yonina C. Eldar			We3.6.6	
15:30-16:00	Coffee Break											

	Hall B We4.1 Quantum Optics Presider: Hanan Sheinfux, Bar Ilan University		Hall A We4.2 Antennas and Metasurfaces Presider: Yarden Mazor, Tel-Aviv University		Hall C We4.3 Circuits-2 Presider: Freddy Gabbay, Hebrew University		Hall D We4.4 BioEngineering-1 Presider: Amos Daneli, Bar-Ilan University		Hall E We4.5 Power Electronics-1 Presider: Ilan Aharon, Ariel University		Hall F We4.6 AI/ML-3 Presider: Chaim Baskin, Ben-Gurion University	
16:00-16:15	We4.1.1	Invited: Elastic electron-photon coupling: towards sub-Poisson free-electron states Ofer Kfir Tel-Aviv University	We4.2.1	Biology-Inspired Butterfly-Shaped Microstrip Patch Antenna for Dual-Band Operation V. Vulfin, I. Madar, N. Verhovski, D. Kanyas and R. Ianconescu	We4.3.1	precision high signal rate setup for cryogenic SoC measurements Noam Roknian, Yoav Weizmann and Alexander Fish	We4.4.1	Invited Talk: Rapid and Highly Sensitive Detection of pathogens in Biological Fluids Prof. Amos Danielli Bar-Ilan University	We4.5.1	Invited: Mutual Relations Between Power Electronics and Circuits and Systems Theory Prof. Em. Sigmond Singer Tel-Aviv University	We4.6.1	Find the Leak, Fix the Split: Cluster-Based Method to Prevent Leakage in Video-Derived Datasets Noam Glazner, Noam Tsfaty, Sharon Shalev and Avishai Weizman
16:15-16:30			We4.2.2	Learning-Based Null-Steering Beamforming for Wideband 5G Planar Phased Arrays Matan Ben-Binyamin, Leonid Kuprian, Roi Yozevitch and Eldad Holdengreber	We4.3.2	WP-MLX: An Energy-Efficient Clockless Wave-Propagated ML-Accelerator Yehuda Kra and Adam Teman			We4.5.2		We4.6.2	Value Locality in Specialized Vision Transformers Daniel Stopel and Freddy Gabbay
16:30-16:45	We4.1.3	Invited: Robust Ground-State Control of High-Frequency Bulk Acoustic Phonons Hillel Hagai Diamandi Hebrew University	We4.2.3	Genetic Algorithm method for 5g null steering Tomer Shor, Eldad Holdengreber and Roi Yozevitch	We4.3.3	Ferroelectric FET-Based Time-Domain In-Memory Computing Macro with Tunable Delay Calibration in 28 nm CMOS Jeries Mattar, Mor M. Dahan, Stefan Dunkel, Halid Mulaosmanovic, Gunda Beernink, Sven Beyer, Eilam Yalon, and Nicolas Wainstein	We4.4.3	From Concept to Commercialization: Optical Modulation Biosensing Shmuel Burg, Michael Margulis and Amos Danielli	We4.5.3	A Robust Numerical Approach for Estimating the Six-Parameter Thevenin-Based Equivalent Circuit of AC Motors Moshe Averbukh	We4.6.3	Deep Learning for Real-Time Detection of Vulnerable Pedestrians Avigail Haliva, Rina Azoulay, Esther David, Matus Sucha and Wafa Elias
16:45-17:00			We4.2.4	Development of a Lightweight Large-Aperture Off-Axis Metasurface Antenna for Terahertz Communication System Liran Akiva, Daniel Rozban and Amir Abramovich	We4.3.4	Investigating Noise Immunity in Tsetlin Machine: Implementation and Analysis Mor Shy, Yehuda Rudin, Eitan Weiss, Roi Lazar, Michal Yemini and Alexander Fish	We4.4.4	EMD-Enhanced EEG for Prehospital LVO Stroke Detection Alexander Yorov, Mark Parsons, Dennis Cordato, Jasmeen Khan, Ahmad Shafiq Suffian Wee, Helen Badge, Elliot Sprecher, Kfir Y. Levy and Daniel H. Lange	We4.5.4	Power loss estimation in transformers under harmonic load currents Neda Miteva and Kfir Jack Dagan	We4.6.4	Cross-layer retention management in gain-cell edram for energy-efficient ai accelerators Ofek Sharabi and Adam Teman
17:00-17:15	We4.1.5	Flexible on-chip optical atomic clock architecture Andrei Diakonov, Konstantin Khrizman and Liron Stern	We4.2.5	Hybrid Chiral-Omega Response: Symmetry Breaking in Bianisotropic Knot-Particles Nadav Goshen and Yarden Mazor	We4.3.5	Transient kickback effect of multi-reference pair comparators on high speed ADCs and receivers Ofir Glick, Nicolas Wainstein and Ariel Cohen	We4.4.5	A Gait-Synchronized Wearable System for Lumbo-Pelvic Correction in Chronic Low Back Pain Ami Eyal, Omri Lubovsky, Alex Frid, Ram Haddas and Aharon Raz	We4.5.5	Simple identification of active AC-side component values in resonant inverters driving series RLC loads in high-current applications Natan Schecter and Alon Kuperman	We4.6.5	Digital Predistortion Using Phase-Gated Recurrent Networks and Direct Backpropagation Learning Tal Kahal, Yair Neria Cohen, Erez Loebl and Emanuel Cohen
17:15-17:30	We4.1.6	Spatio-temporal plasmonic weak-measurement Sahil Sahoo, Andre Yaroshevsky, Dima Cheskis and Yuri Gorodetski	We4.2.6	Design and Development of a Reconfigurable Metasurface Antenna Using Steer-By-Image Technology for Ka-Band Communication Ido Gal, Tzach Hershko, Oleg Torgovitsky, Daniel Rozban, Gil Kedar and Amir Abramovich	We4.3.6	Bounding Multi-Source-Multi-Output Generalized TRNG Circuits Entropy Rachel Podolak and Itamar Levi	We4.4.6	Hybrid AI–physics modeling for quantitative renal drainage analysis from dynamic x-ray imaging Uriel Shitrit, Mordechai Duvdevani and Talia Yeshua	We4.5.6	Invited: AI in Power Electronics: Status of Knowledge, Intelligence and Creativity (as of March 2026) Prof. Em. Shmuel (Sam) Ben-Yaakov Ben-Gurion University	We4.6.6	YOLO Meets Mixture-of-Experts: Adaptive Expert Routing for Robust Object Detection Ori Meiraz, Sharon Shalev and Avishai Weizman
17:30-17:45	We4.1.7	Invited: Integrated Photonics and Atomic Vapors: Engineering Strong Light–Matter Interactions at the Single-Photon Level Roy Zektzer Bar-Ilan University	We4.2.7	Versatile Semianalytical Scheme for Multilayer PCB Transmissive Metalenses on Demand Sherman W. Marcus, Ravi Yadav, Vinay K. Killamsetty and Ariel Epstein	We4.3.7	Laser Modulation State Recovery via Side-Channel Analysis Or Nahum and Itamar Levi	We4.4.7	Finger joint angle and gesture estimation in dynamic hand postures using a soft printed electrode array Hila Man, Nitzan Luxembourg, Hava Siegelmann and Yael Hanein			We4.6.7	Invited: Geometric Deep Learning for Neural Artifacts: Symmetry-Aware Learning across Trained Model Weights, Internal Representations, and Gradients Haggai Maron Technion
17:45-18:00			We4.2.8	metamamba: hybrid semianalytical and generative inverse design of huygens' metasurfaces Natanel Nissan, Sherman W. Marcus, Dan Raviv, Raja Giryes and Ariel Epstein			We4.4.8	Cross-Scale Networks for Electrical Stimulation Driven Brain Recovery Dafna Rosenberg, Dafna Rivka Levenberg, Zehavit Shapira, Orit Shefi and Yaara Erez				
18:00-19:30	Poster Session + Light Snacks											

		Hall B Th1.1 Optics-4 Presider: Lior Michaeli, Tel-Aviv University		Hall A Th1.2 Communications-1 Presider: Anatoly Khina, Tel-Aviv University		Hall C Th1.3 Signals-3 Presider: Itshak Lapidot, Afeka		Hall D Th1.4 Quantum Technologies-1 Presider: Eli Bordo, IMOD		Hall E Th1.5 Power Electronics-2 Presider: Alon Kuperman, Ben-Gurion University
08:00-09:00		Welcome and Registration								
09:00-09:15	Th1.1.1	Tutorial: 3D printed complex microoptics: Fundamentals and first benchmark applications Prof. Harald Giessen University of Stuttgart	Th1.2.1	CSI and AOD error effect on IRS performance Eitan Ovrutski and Ofer Amrani	Th1.3.1	Pareto Optimization for Multichannel Speech Enhancement Elior Hadad, Simon Doclo and Sharon Gannot	Th1.4.1	Experimental Quantum Cryptography with Inverse-Designed Entangled Qudits Joshua Foley-Comer, Ofir Yesharim, Sarika Mishra, Shashi Prabhakar, Aviv Karnieli, Eyal Rozenberg, Ravindra P Singh and Ady Arie	Th1.5.1	Universal rectifier topology Yarden Sharifi, Yishai Kellerman, Shlomo Gadelovits, Lucien El Baze and Ilan Aharon
09:15-09:30	Th1.1.2		Th1.2.2	Shoot and Bouncing Propagation Model In Complex Tunnels Ravid Borichovitce, Gad A. Pinhasi, Ori Glikstein, and Yosef Pinhasi	Th1.3.2	Meaningful Color Presentation for Infrared Imaging D. E. Bar, A. Giladi, A. Epstin, M. Weinstein, E. Shunem, Y. Shamay and T. Markovitz	Th1.4.2	probeless vs probe-based variable-strength eavesdropping in quantum key distribution Yuval Idan, Tal Gofman, Ziv Abelson, Isabelle Cestier, Elad Mentovich and Eliahu Cohen	Th1.5.2	Fast Power-Flow Approximation for Distribution Systems Using a Hierarchical Tree of Uniform MLP Regressors Arbel Yaniv and Yuval Beck
09:30-09:45	Th1.1.3		Th1.2.3	Toward Wi-Fi 8 Ultra-High Reliability: Null Steering Using Data-Embedded Pilots Shimi Shilo, Rani Keren, Nadav Basson, Shachar Shayovitz, Doron Ezri, Ezer Melzer and Yoav Levinbook	Th1.3.3	Calibration-Free Global Offset Compensation for Array-Based Detectors Yoram Karni	Th1.4.3	Tutorial: Structured Photons for High-Dimensional Quantum Information Processing Prof. Ebrahim Karimi Chapman University	Th1.5.3	Dynamic analysis for parameter selection in local power systems for ai data centers Elinor Ginzburg-Ganz and Yoash Levron
09:45-10:00	Th1.1.4		Th1.2.4	Advances in Hard Successive Interference Cancellation for 5G-NR Itay Yakuti, Avner Elgam, Yossi Peretz, and Yosef Pinhasi	Th1.3.4	Identification of Guitar Types Using Ultrasonic Frequency Izhak Kapash and Ram Zamir			Th1.5.4	Closed-loop dynamics in multi-resonant current controllers Moria Sassonker Elkayam and Moshe Sitbon
10:00-10:15	Th1.1.5	Highly efficient design scheme for specialty optical fibers Sravya Rao and Yonatan Sivan	Th1.2.5	Invited: Neural Network Approach for Polar Codes Decoding Prof. Haim Permuter Ben-Gurion University	Th1.3.5	Invited: Plant-emitted sounds: detection, interpretation and ecological implications Prof. Lilach Hadany Tel-Aviv University			Th1.5.5	Reduced Device Count DC/AC Converter with Output Switching Ripple Elimination Riccardo Mandrioli and Alon Kuperman
10:15-10:30	Th1.1.6	Plasmonic Vortex Generation by Hybrid Poincare Beams Using Nematic Liquid Crystals Sahil Sahoo, Ahmed Lafeef EN, Andrey Yaroshevsky and Yuri Gorodetski	Th1.2.6		Th1.3.6				Th1.5.6	Dual-PI Voltage Control for Attaining Arbitrary Output Voltage Ratio in Synchronous Single-Inductor Dual-Output Buck Converters Andrey Vulfovich, Yegal Darhovsky and Alon Kuperman
10:30-11:00		Coffee Break								
		Hall B | Th2 Plenary Session B								
11:00-11:45	Th2.1.1	AI-Powered Data Centers: Building a Sustainable Future by Scaling the Package Dr. Anuradha Agarwal Principal Research Scientist, MIT Microphotonics Center and Materials Research Laboratory								
11:45-12:15	Th2.1.2	ICSEE2026 Awards and Recognitions								
12:15-13:00	Th2.1.3	Devices for generation and detection of light at the single photon level Prof. Val Zwiller KTH Royal Institute of Technology, Division of Quantum and Nano Physics								
13:00-14:00		Lunch Break								

	Hall B Th3.1 Optics-5 Presider: Yuri Gorodetski, Ariel University		Hall A Th3.2 BioEngineering-2 Presider: TBD		Hall C Th3.3 High-Speed Interfaces Symposium Presider: Prof. Ariel Cohen, Technion		Hall D Th3.4 Quantum Technologies: From Research to Market Impact. Presider: Eli Bordo, IMOD		Hall E Th3.5 Power Electronics-3 Presider: Yuval Beck, Tel-Aviv University	
14:00-14:15	Th3.1.1	Invited: Photonic Origami for On-chip 3D Micro-Optics Prof. Tal Carmon Tel-Aviv University	Th3.2.1	Invited: The silicon photonics acoustic detector (SPADE): a versatile platform for biomedical imaging and sensing Prof. Amir Rosenthal Technion	Th3.3.1	Tutorial: Transceiver Architectures for Future System Interconnect Demands Prof. Sam Palermo Texas A&M	Th3.4.1	Engineering a Neutral-Atom Quantum Computer Prof. Ofer Firstenberg Weizmann Institute and Q-Factor	Th3.5.1	High-Altitude Tethered Cable-Powered Drones: Electric Power Analysis Yehoshua Socol
14:15-14:30							Th3.4.2	Robust Quantum Integrated Photonics Prof. Haim Suchowski Tel Aviv University & Quantum Pulse	Th3.5.2	Synchronverters with Adaptive Harmonic Mitigation Capability Adir Goldovsky, Aaron Zharnest, Fabio Mandrile, and George Weiss
14:30-14:45	Th3.1.3	Development of a Real-Time Terahertz Imaging System Using a Glow Discharge Detector Focal Plane Array and Lock-In Camera Detection Dor Azran, Lidor Ladany, Tomer Latucha, Or Kakon, Daniel Rozban, Arun Ramachandra Kurup, Yitzhak Yitzhaky, Amir Abramovich and Nathan Kopeika	Th3.2.3	VLSI Accelerates Cell Model Development Shlomo Koifman, Rotem Solomon and Ramez Daniel			Th3.4.3	The Three Basic Primitives of Quantum Communication Prof. Hagai Eisenberg The Hebrew University of Jerusalem & HEQA Security	Th3.5.3	IEEE 3 Bus Systems Under Varying Operational Conditions: A Comparative Study under effectiveness of linear control Ido Karbol, Uriel Aferiat, Moshe Sitbon, Moria Sassonker, Riccardo Mandrioli and Martin Mellincovsky
14:45-15:00	Th3.1.4	Design, Simulation and Fabrication Development of Polymer Bragg Gratings on Side-Polished Fibers via Two-Photon Polymerization Abhishek Singh Rathore, Ksenia Shukhin, Parvinder Kaur Gill and Dan M. Marom	Th3.2.4	Reinforcement Learning–Driven Personalized Guided Breathing for Blood Pressure Reduction Regev Azran, Elliot Sprecher, Ron Meir, and Daniel H. Lange			Th3.4.4	Rapid generation of photonic cluster states with a single atom Prof. Barak Dayan Weizmann Institute & Quantum Source	Th3.5.4	Data-Driven Circuit Model For Soft Sources Aaron Shmaryahu, Roni Zakay and Ilan Aharon
15:00-15:15	Th3.1.5	Faraday effects driven by the magnetic component of optical radiation Benjamin Assouline and Amir Capua	Th3.2.5	Ablative Tm:YAP pulsed laser Salman Noach, Neria Suliman and Rotem Nahear	Th3.3.5	Invited: Co-Packaged Optical Transceivers for HPC, Data Centers and AI Applications Dr. Dan Kuchta Nvidia	Th3.4.5	Panel discussion, moderated by Prof. Alex Retzker, Hebrew University, with: • Prof. Ofer Firstenberg • Prof. Haim Suchowski • Prof. Hagai Eisenberg • Prof. Barak Dayan • Prof. Nadav Katz, Hebrew University & Qarakal Quantum • Dr. Yehuda Naveh - Classiq	Th3.5.5	Passive Thermomagnetic Solar Trackers: Concepts and Architectures Yehoshua Socol and Yosef Golovachev
15:15-15:30	Th3.1.6	Thick Silicon Photonics Spatial Mode Multiplexer with 3D-Printed Fiber Interface for Rectangular-Core Fibers David Halfon, Aleksei Kukin, Ksenia Shukhin, Jeffery S. Stone, Gaozhu Peng, Ming-Jun Li and Dan M. Marom	Th3.2.6	Integrated optical imaging system for quantitative evaluation of tissue optical and physiological properties David Abookasis					Th3.5.6	
15:30-16:00	Coffee Break									

	Hall B Th4.1 Optics Industry Session Presider: Yonatan Sivan, Ben-Gurion University		Hall A Th4.2 Communications-2 Presider: Ram Zamir, Tel Aviv University		Hall C Th4.3 Signals-4 Presider: Tirza Routtenberg, Ben-Gurion University		Hall D Th4.4 Quantum Technologies-3 Presider: Eli Bordo, IMOD		Hall E Th4.5 Computing Presider: Freddy Gabbay, Hebrew University	
16:00-16:15	Th4.1.1	Invited: Photonics Technologies in CMOS Foundries Yakov Rozin Tower Semiconductors	Th4.2.1	Invited: Impossibility Results in Channel Coding via Auxiliary Channels and Genie-Aided Techniques Anelia Somekh-Baruch Bar-Ilan University	Th4.3.1	Invited: Deep Learning Meets Beamforming: Recent Advances in Multi-Microphone Spatial Filtering Prof. Sharon Gannot Bar-Ilan University	Th4.4.1	Coupled, Multimode Parametric Oscillators: Classical Spin-Models and Quantum Cluster States at 1,2,3D Prof. Avi Pe'er Bar-Ilan University	Th4.5.1	Tutorial: VLSI Complexity Superconductive Quantum Integrated Circuits Prof. Eby Friedman University of Rochester
16:15-16:30										
16:30-16:45	Th4.1.3	Tunable Directional Coupler on the SiN platform for On-chip Commercial Photonic Gyroscope Loren Gamrasni, Saawan Kumar Bag and Itzik Engel	Th4.2.3	Digital Schemes for Gaussian Channels with Noisy Feedback Nadav Jacob Lustig, Yuval Kochman, and Anatoly Khina	Th4.3.3	State Estimation with Measurement Sign Errors Tslil Sardam Hugi, Jean Alisse, Igal Goldshtein, Lilach Sabban, Vladimir Lechtman, Eran Treitser and Tirza Routtenberg		Quantum Advantage: Hype, Progress, and How Far We Still Have to Go Prof. Netanel Lindner Technion		
16:45-17:00	Th4.1.4	Free Spectral Range Stability under Linear Thermal Tuning in a Dual-Coupled Microring Resonator Joseph Meyer, Alexander Grebenchukov, Astrid Barreiro, Jose A. Jaramillo-Villegas, J. J. Vegas Olmos and I. Tafur Monroy	Th4.2.4	Copying Versus Randomization in Lempel-Ziv Music Synthesis Nadav Mishan and Ram Zamir	Th4.3.4	Sum of Squares Polynomial Approximate Dynamic Programming for a State Constrained Problem Gyorgy Hexner				
17:00-17:15	Th4.1.5	Invited: Defense Photonics: When 'Light' is the Spec and the Technology Michal Vadai Elbit Systems	Th4.2.5	Cubic Robust Systematic Codes Have Minimum Distance at Most Two David Erman, Osnat Keren. and Shlomo Engelberg	Th4.3.5	Application of the measure-transformed (MT) GLASSO to financial data Nitai Buchnik, Koby Todros and Tirza Routtenberg	Th4.4.5	Invited Talk: Towards a high-sensitivity mobile gravity-gradiometer Dr. Amit Tsabary Rafael	Th4.5.5	Leakage-Resilient Multi-Party Computation: Protecting the Evaluator in Circuits Garbling Francesco Berti and Itamar Levi
17:15-17:30			Th4.2.6		Th4.3.6				Th4.5.6	Iteration-Dependent Temporal Resilience in Diffusion Models for Approximate Computing Ori Schweitzer, Uri Weiser and Freddy Gabbay
17:30-17:45	Th4.1.7	Invited: Recent Advances in Specialty Fibers: From Research to Optoelectronic Applications Ariel Bruner Israel Center for Advanced Photonics (ICAP)	Th4.2.7		Th4.3.7		Th4.4.7		Th4.5.7	FSM-Based Look-Ahead Auto Clock Gating: A Generic RTL Framework Leveraging FPGA Clock Management Utilization Yitzhak Ovadya, Yossef Danan, Eliya Leviani, Binyamin Abramov, Yair Kandil, Joseph Bernstein and Amir Shemer
17:45-18:00			Th4.2.		Th4.3.				Th4.5.	
18:00-19:30	Three Minute Thesis Competition									

Poster Presentations

Paper Nr.	Title	Authors
We5.P1	Field-Deployable OSNR and Spectrum Analytics Using Transceivers for Network-Wide Diagnostics	Abhishek Anchal and Avi Levy
We5.P2	Visible and infrared self-supervised fusion trained on a single example	Nati Ofir and Jean-Christophe Nebel
We5.P3	Defect Detection Approaches Based on Simulated Reference Image	Nati Ofir, Yotam Ben Shoshan, Ran Badanes and Boris Sherman
We5.P4	Integrated Dataset Generation and Testing Platform for Dynamic Graph Neural Network ETA Prediction	Guy Tordjman and Nadav Voloch
We5.P5	FPGA based image content recognition system	Dar Eshel Epstein and Binyamin Abramov
We5.P6	Life-and-Death Decisions of Autonomous Vehicles: Engineered Cut of the Ethical Gordian Knot	Yair Y. Shaki, Moshe Yanovskiy and Yehoshua Socol
We5.P7	A Compact Cavity-Backed Antenna with Enhanced Bandwidth	A. Aflalo, L. Galanti and V. Vulfin
We5.P8	Microwave Link Attenuation under Rain and Hail: Insights into Hail Effects	Liora Mazangia, Jonatan Ostrometzky, Hagit Messer
We5.P9	A Controller-Agnostic COI-Frame Test for Transient Stability of Grid-Forming Converters	Alan Valadez and George Weiss
We5.P10		
We5.P11	A comparative analysis of solar panel performance fixed orientation versus astronomical and LDR-based sun tracking algorithms	Yosef Golovachev, Evyatar Har-zvi and Moshe Boyer
We5.P12	Language-Vision Model Navigation for Indoor Robots Using Semantic Landmark Grounding	Tamir Basson and Amir Shapiro
We5.P13	Machine-Learning-Driven Computational Spectroscopy based on Optoelectronic Chromatic Dispersion in Photodiodes	Endalamaw Ewnu Kassa, Ziv Glasser, Uttama K Saint, Roi Yozevitch and Shmuel Sternklar
We5.P14	Influence of Molecular Beam Epitaxy Interface Characteristics on Temperature Limits in Advanced THz Quantum Cascade Lasers.	Nathalie Lander Gower, Shiran Levy, Maor Engel, Sadhvikas J. Addamane and Asaf Albo
We5.P15	FeFET-based Reconfigurable Voltage-to-Time Converter in 28 nm CMOS	Hanaa Eqeiq, Jeries Mattar, Stefan Dunkel, Halid Mulaosmanovic, Gunda Beernink, Sven Beyer and Nicolas Wainstein
We5.P16	Analytical Expressions for Photonic Band Structure of One-Dimensional Arrays of Identical Waveguides for Integrated Photonics	Hodaya Teitelbaum, Vladislav Shteeman and Amos A. Hardy
We5.P17	Tight Binding Solution for Quantum Wire Arrays	Hodaya Teitelbaum, Vladislav Shteeman and Amos A. Hardy
We5.P18	TCAD based numerical analysis of optoelectronic chromatic dispersion in silicon photodiodes	Meir Itzhaki, Pini Medved, Maor Engel, Ziv Glasser, Shmuel Sternklar and Asaf Albo
We5.P19	Hybrid Quantum Neural Networks vs. YOLO for Drone Detection	Gokul Manavalan and Shlomi Arnon
We5.P20	Early Detection of Astrocytoma Using an AI-Based Scalp-Mounted Brain Chip	Gokul Manavalan, Ayush Mehra and Shlomi Arnon
We5.P21	Low-temperature plasma-enhanced atomic layer deposition of AlN for GaN process integration	Pini Medved, Silvia Piperno, Valentina Korchnoy, Meir Itzhaki, Maor Engel and Asaf Albo
We5.P22	Near-infrared Imaging through Scattering Tissue Using an Auto-Encoder Neural Network	Alon Silberschein, Eliran Talker, Chanan Berkovitz, Yair Engler, Amir Shemer and Yossef Danan
We5.P23	Robust Deep Reinforcement Learning Under Action–Signal Mismatches	Oren Fivel, Matan Rudman, and Kobi Cohen
We5.P24	Hebrew Offensive Language Detection via Prompt-Guided LLM Annotation and Transformer Fine-Tuning	Gili Berger, Yossef Haim Shrem and Chaya Liebeskind
We5.P25	Engineering Angular Dispersion via Hybrid Local-Nonlocal Metasurfaces	Shany Z. Cohen, Luna Sinitsky, Sukanta Nandi, Leeju Singh, Amos Sharoni and Tomer Lewi
We5.P26	Scalable toffoli quantum gate based on OAM-structured light	Ayush Mehra and Shlomi Arnon
We5.P27	Learned hyperspectral compressive imaging with application for cancer detection	Shadi Kandalaft and Adrian Stern
We5.P28	Investigating the On-time Resistance Time Dependence in GaN using a Modified Boost Converter Technique	Moshe Azoulay, Gilad Orr and Gady Golan
We5.P29	Mitigation of transformer load stress using Battery Energy Storage Systems (BESS)	Martin Mellincovsky, Uriel Afriat, Tom Trigano, Ido Karbol and Moshe sitbon
We5.P30	Functional sEMG Tomographic Imaging of Forearm for Gesture Classification: A Proof of Concept	Ytshak Levy, Daniel Rabinovitsch, Yehuda Newton and Marcelo David
We5.P31	Recording Subtle Facial Expressions During Dreaming with High-Resolution EMG	Heloise Mimoun Weiss and Yael Hanein
We5.P32	Compact Circular Loop Antenna for 2.4 GHz Band Smartwatch Applications	I. Dudchenko, I. Madar and V. Vulfin
We5.P33	direct interferometric measurement of nonreciprocity induced by a plasmonic metasurface with false chirality	Ahmed Lafeef Ettapuram Naduvilepurayil, Harel Ginat, Fernando Loren, Luis Martın-Moreno, Shmuel Sternklar and Yuri Gorodetski
We5.P34	Electro-Optic Control of Nerve Regeneration: A Personalized Bio-Hybrid Implant System	Reut Plen Gueta, Dafna Rivka Levenberg, Avia Ben Zvi Kuznitz, Zehavit Shapira and Orit Shefi
We5.P35	sensitive magneto-optic kerr effect microscope using lock-in camera	Gilad Lev, Eyal Allegro and Amir Capua
We5.P36	Learning Power System State Estimation Priors	Shakked River, Jean Alisse, Igal Goldshtein, Lilach Sabban, Vladimir Lechtman, Tirza Routtenberg and Eran Treitser
We5.P37	One-Sample Mean Test for Multivariate Samples	Alexander Novoselsky and Evgeny Kagan
We5.P38	Side-by-Side Comparison of FIB-Made Plasmonic Nanostructures for Spectral Imaging: Tips vs. Holes	Ya'akov Mandelbaum, Maria Tkachev, Abhijit Sanjeev, Zeev Zalevsky, David Zitoun and Avi Karsenty
We5.P39	A Wavelet Based Online Algorithm for Fast Detection of Change Points in Noisy Piecewise-Constant Signals	Alexander Novoselsky and Evgeny Kagan
We5.P40	Design of a Planar objective for multiphoton mouse brain imaging	Jacob Engelberg and David Sinefeld
We5.P41	Zero-shot Shape Analysis of Nanoparticles in SEM Images using Vision AI Foundation Models	Ya'akov Mandelbaum, Freida Barnatan, Emunah Goldstein, Einav Kalimian, Orchen Madar, Yishai Cohen, Avi Huri, David Zitoun, and Moshe Amitay
We5.P42	Asymmetric Transistor Aging Under Thermal Gradients	Alex Grinshpun, Firas Ramadan and Freddy Gabbay
We5.P43	Synthesis of Programmable Photonics Lattice-Form Spectral Filters with Phase Error Compensation	Ariel Malitsky, Bashar Bsoul and Dan M. Marom
We5.P44	SquiggleAI: AI-driven bacterial pathogen classification with raw ONT output	Ori Maimon and Leonid Yavits
We5.P45	Optical Modeling of Focal-Point Divergence between Surgical Nd:YAG and Aiming Lasers	Ya'akov Mandelbaum, Yaakov Slushetz, Edward Averbukh, Jaime Levy, Rani Patal and Yoel Arieli
We5.P46	An Extended PUF-based Protocol	Francesco Berti and Itamar Levi
We5.P47	On-Chip Micro-Optics for VCSELs: Directly Printed Microlenses and Photonic Lantern Multiplexers	Ksenia Shukhin, Yoav Dana, Aleksei Kukin and Dan M. Marom
We5.P48	RDDiffusion: A Dual Head Heavy-Tailed Diffusion Model for Robust Multi-Target Radar Detection	Ari Granevich, Igal Bilik, Haim Permuter and Joseph Tabrikian