

The 12th ORT Braude Interdisciplinary Research Conference

DETAILED PROGRAM

Wednesday, 28.09.2016	
9:00-10:00	<i>Arrival and Registration</i>
10:00-10:15	GREETING (Oren 2) <i>Professor Arie Maharshak</i> <i>President, ORT Braude College</i>
10:15-11:00	PLENARY 1 (Oren 2) <i>Dr. Rivka Wadmany Shauman,</i> <i>Vice Chair, Council for Higher Education.</i> Out of Lines-Teaching and Learning in a World of Technological- Social Changes
11:05-12:20	SESSION A1: Industrial Engineering and Management (Oren 2) <i>Chair: Nirit Gavish</i>
11:05-11:20	The Relationship Between Industrial Engineering and Main Physical Concepts Boris Shnits, Emil Bashkansky
11:20-11:35	Assignment and Scheduling of Developmental Tasks in a Job-Shop Environment at Intel Dudu Barkan, Hussein Naseraldin
11:35-11:50	Abrupt Loss of Stability: Anderson Darling Detection Tool Yariv N. Marmor, Emil Bashkansky, Sergey Mazin
11:50-12:05	A Robust approach to the Integrated Inventory Replenishment, Lateral Transshipments, and Routing in a Single-Commodity Supply Chain Naseraldin Hussein, Shiry Varem
12:05-12:20	Energy Management in a Soft Drink Production Line Hussein Naseraldin, Ohad Dayan
11:05-12:20	SESSION A2: Software Engineering (Oren 1) <i>Chair: Sarai Sheinvald</i>
11:05-11:20	A New Approach to the K-Mismatch Search Problem and its Application to Protein Connectivity Network Construction Zakharia Frenkel, Zeev Volkovich
11:20-11:35	On the Quality and Complexity of Pareto Nash Equilibria in the Job Scheduling Game Leah Epstein, Elena Kleiman
11:35-11:50	Multi-objective Topology Optimization with Ant Colony Optimization and Genetic Algorithms Miri Weiss Cohen, João B. Q. Zuliani, Frederico G. Guimarães
11:50-12:05	On the Location of Roots of Graph Polynomials Elena Ravve
12:05-12:20	Classification from Generation: Recognizing Deep Grammatical Information During Reading from Rapid Event-Related FMRI Tali Bitan, Alex Frid , Hananel Hazan, Larry M. Manevitz, Haim Shalelshvili, Yael Weiss

11:05-12:20	SESSION A3: Biotechnology Engineering (Jasmine) <i>Chair: Nicholas Harris</i>
11:05-11:20	The Effect of Paracetamol Overdose on Metabolic Syndrome in Rats Masha Grozovski, Zvi Ackerman
11:20-11:35	Biologically-inspired Interfaces Meital Alagem, Elina Kivovich, Itai Tzchori, Naomi Lanir, Meizid Falah, Moshe Flugelman, Uri Dinnar, Refael Beyar, Noah Lotan, Sarit Sivan
11:35-11:50	Cloning, Expression, Production and Characterization of Recombinant Chitinase Marei Sammar , Hedaya Ahmad, Rivka Weiser Biton, Zcharia Frenkel
11:50-12:05	Surface Modifications of Copper Oxide Nanoparticles Marina Tal, Iris S. Weitz
11:05-12:20	SESSION A4: Mechanical Engineering (Dekel 2) <i>Chair: Samy Abu Salih</i>
11:05-11:20	Cavitation in Solids and Ballistic Limit Predictions for Ductile Perforation of Metal Targets Rami Masri
11:20-11:35	Microstructural Changes During Creep Process of Friction Stir Welded AZ31B-H24 Michael Regev , Mohamad El Mehtedi and Stefano Spigarelli
11:35-11:50	Exact Solutions of Core-Annular Laminar Inclined Flows Ayelet Goldstein , Amos Ullmann, Neima Brauner
11:50-12:05	Weight Reduction of Pressure Vessels Through 3D Metal Printing Ehud Kroll , Eldad Buchris
12:20-12:35	<i>Coffee Break</i>
12:35-13:35	SESSION A5: Applied Mathematics (Dekel 2) <i>Chair: Haggai Katriel</i>
12:35-12:50	Finite-Dimensional Representations of Lie Superalgebras Michael Chmutov, Crystal Hoyt, Rachel Karpman, Shifra Reif
12:50-13:05	The Implicit Convex Feasibility Problem and Its Applications to Cooperative Wireless Sensor Network Positioning and Adaptive Image Denoising Aviv Gibali , Yair Censor, Frank Lenzen, Christoph Schnörr
13:05-13:20	On the Euler-Poisson Equations Lavi Karp
12:35-13:35	SESSION A6: Engineering Education (Oren 1) <i>Chair: Miri Shacham</i>
12:35-12:50	Dear Lecturer: Engineering Students' Perceptions of Teaching for Understanding Ira Raveh
12:50-13:05	How Do Engineering Students Solve Accuracy Problems: A Comparative Study Elena Trotskovsky , Nisim Sabag

13:05-13:20	"From Good to Excellent"- Coaching for Success Miri Shacham , Rivka Weizer-Biton, Hana Feiger , Dvora Toledano-Kitai
13:20-13:35	Evaluation of Conceptual Frameworks in Astronomy of College Students David Pundak
12:35-13:35	SESSION A7: Software Engineering (Oren 2) <i>Chair: Miri Weiss</i>
12:35-12:50	On the Capacity of Capacitated Automata Sarai Sheinvald , Orna Kupferman
12:50-13:05	Authorship Verification Using a Novel Time Series Based Methodology Renata Avros , Zeev Volkovich
13:05-13:20	Sentiment Analysis of Twitter Data Katerina Korenblat , Peretz Hilla, Elena Ravve, Zeev Volkovich
13:20-13:35	New Approach for Plagiarism Detection Renata Avros, Zeev Barzilay, Dan Lemberg , Avi Sofer, Zeev Volkovich
12:35-13:35	SESSION A8: Electrical and Electronic Engineering (Jasmine) <i>Chair: Albert Sabban</i>
12:35-12:50	Model of Camera-Controlled Pintograph Samuel Kosolapov
12:50-13:05	A Practical Model for I-V Characteristic of Photovoltaic Generators Radu Florescu , Ahuvit Ambar
13:05-13:20	New Wideband Compact Antennas for Communication Systems Albert Sabban
13:35-15:30	<i>Lunch and Hotel Check-in</i>
15:30-16:15	PLENARY 2 (Oren 2) <i>Professor Rafael Beyar</i> <i>Chief Executive Officer & Director General, RAMBAM</i> <i>healthcare Campus</i> Medical Innovation
16:15-16:30	<i>Coffee Break</i>
16:30-17:30	OBC PRESENT: RESEARCH HIGHLIGHTS (Oren 2)
16:30-16:45	Service-Learning as a Platform for Multidisciplinary Collaborations: OBC's Flagship Project Orit Braun Benyamin, Orna Muller
16:45-17:30	Departments Highlights Departments' representatives
17:30-18:00	<i>Excellence Awards Ceremony (Oren 2)</i>
18:00-19:30	<i>Leisure Time and Dinner</i>
19:30-23:00	<i>Social Evening</i> Night Tour at Nimrod Fortress National Park

Thursday, 29.09.2016	
7:00-09:00	<i>Breakfast</i>
09:00-09:40	SESSION on Engineering Education (Oren 2) <i>Chair: Dvora Toledano-Kitai</i>
09:00-09:20	Assessing Team Dynamics in Software Engineering Student Projects Avi Soffer, Sharon Tidhar, Yael Furman Shaharabani, Dvora Toledano-Kitai
09:20-09:40	Teaching for understanding during a protein engineering course Yael Furman Shaharabani, Hana Faiger
09:40-10:30	Hotel Check-out
10:30-11:15	PLENARY 3 (Oren 2) <i>Mr. Nasri Said</i> <i>Founder & CEO, NGT- technology incubator</i> Biotech as a lever for socioeconomic entrepreneurship in the north
11:30-12:45	SESSION B1: Industrial Engineering and Management (Oren 2) <i>Chair: Hussein Naseraldin</i>
11:30-11:45	Ability Evaluation by Binary Tests: Problems, Challenges & Recent Advances Emil Bashkansky, Vladimir Turetsky
11:45-12:00	PET Appointment Scheduling: an Empirical Based Solution and Tool Illana Bendavid, Yariv N. Marmor, Boris Shnits
12:00-12:15	A New Look On the Shortest Queue with Jockeying Rachel Ravid
12:15-12:30	Linking Operation Plans to Business Objectives Using QFD Shuki Dror
12:30-12:45	Training Exploration in Theory of Mind Perception Doron Faran, Nirit Gavish, Mark Berman
11:30-12:45	SESSION B2: Physics and Optical Engineering (Dekel 2) <i>Chair: Atef Shalabney</i>
11:30-11:45	Light-Matter Strong Coupling and Potential for Chemistry and Biology Atef Shalabney
11:45-12:00	Constructing a Course of Modern Physics for Students of Engineering Nathan Netzer
12:00-12:15	From Foucault-Polarized Light to Polarization-fan Harmonics Avner Fleischer, Eli Bordo, Ofer Kfir, Pavel Sidorenko, Oren Cohen
12:15-12:30	Plasmon-waveguide resonances with enhanced Figure-of-Merit and their potential for anisotropic bio-sensing in the Near infrared region Said Mahajna, Michal Neumann, Ofer Eyal, Atef Shalabney
12:30-12:45	High Energy Neutrinos From Pulsar Wind Nebulae Dafne Guetta

11:30-12:45	SESSION B3: Applied Mathematics (Oren 1) <i>Chair: Gabi Ben-Simon</i>
11:30-11:45	Analytic Properties of Pro-Isomorphic Zeta Functions of Groups Mark N. Berman , Benjamin Klopsch, Uri Onn
11:45-12:00	Nonlinear Robust Tracking by Feedback Linearization Vladimir Turetsky
12:00-12:15	Analyticity of Semigroups in the Right Half-Plane Jacobzon Fiana , Elin Mark
11:30-12:45	SESSION B4: Engineering Education and General Studies (Jasmine) <i>Chair: Elena Troskovsky</i>
11:30-11:45	About the Correlation between Trainees Learning Styles to their Tutors Instructional Strategies Distance and Academic Achievements Hagit Krisher, Nissim Sabag
11:45-12:00	Engineers in their Second-Career as Teachers: a longitudinal research Yael Furman Shaharabani , Orna Muller, Miri Shacham
12:00-12:15	Tendency of instructors in Germany and Israel toward active learning David Pundak , Miri Shacham, Rivka Weizer-Biton
12:45-14:15	Lunch
14:15-15:30	SESSION B5: Industrial Engineering and Management (Oren 2) <i>Chair: Yariv Marmor</i>
14:15-14:30	The Knowledge-Skills-Dispositions Unified Framework for KM Doron Faran
14:30-14:45	Generation Y and Work Behavior: Are They Really That Different? A Cross Cultural Examination Using Data Mining of Social Network Websites Hilla Peretz , Emma Parry, Yitzhak Fried, Katerina Korenblat, Elena Ravve, Zeev Volkovich
14:45-15:00	Visual Guidance in Multimedia Augmented Reality Training System Nirit Gavish , Hagit Krisher, <i>Ortal Shamai-Lahat</i>
15:00-15:15	Augmented Reality Training System for Teaching Cognitive Skills in Kindergartens Levona Dov , Nirit Gavish, Hagit Krisher, Eran Horesh, Elias Shamilov
15:15-15:30	Robotics in Handling Hazardous Materials Olga Shapiro , Nirit Gavish, Yael Ungar, Gilad Einy
14:15-15:30	SESSION B6: Biotechnology Engineering (Dekel 2) <i>Chair: Ilana Kepten</i>
14:15-14:30	Endophytic Bacteria Application as a Biocontrol Agent Against the Phytopathogen- Phytoplasma Lilach Iasur-Kruh , Vered Naor, Einat Zchori-Fein
14:30-14:45	Application of Immobilized Microorganisms for Increasing Tolerance for Toxicants Shocks Nedal Massalha, Asher Brenner, Chaim Sheindorf, Isam Sabbah
14:45-15:00	Simulation of the bioadhesive gelatin-alginate conjugate with antibiotics Dafna Knani , Meital Foux, Meital Zilberman

15:00-15:15	Nanoparticles for Enhancement of Drug Delivery Through the Blood-Brain Barrier Rosa Azhari , Esraa Abd-el-Rahman, Idit Golani
14:15-15:30	SESSION B7: Mechanical Engineering (Oren 1) <i>Chair: Ayelet Goldstein</i>
14:15-14:30	A Novel Bi-Objective Competitive Travelling Salespersons Problem Erella Eisenstadt-Matalon , Amiram Moshaiov, Gideon Avigad
14:30-14:45	A New Prescriptive Model for Conceptual Engineering Design Based on Parameter Analysis and C-K Theory Ehud Kroll , Gil Weisbrod
14:45-15:00	Cutting zone temperature and specific cutting energy measurement and evaluation in micro milling of ceramics and Metals Yitzhak Yifrach , Omri Levi, Elad Yehouda
14:15-15:30	SESSION B8: Applied Mathematics (Jasmine) <i>Chair: Shifra Reif</i>
14:15-14:30	The 'Immediate Exchange' Model: An Analytical Investigation Haggai Katriel
14:30-14:45	A Number of Problems of Operator Theory in Spaces with Indefinite Metrics Victor Khatskevich
14:45-15:00	Lie Groups and Symmetry in Dynamical Systems Gabi Ben-Simon
15:30-15:45	<i>Coffee Break</i>
15:45-16:30	PLENARY 4 (Oren 2) <i>Professor Meir Litvak</i> <i>Director, Center for Iranian Studies, Department of Middle Eastern and African History, Tel Aviv University</i> From Shii Clerics to Arab Responses to the Holocaust: A
16:30-17:15	CLOSING SESSION (Oren 2) <i>Mr. Ahiav Golan- ORT Braude College CEO</i> <i>Professor Zeev Barzily - Vice President for Academic Affairs</i>