



Researchers

2019-2020





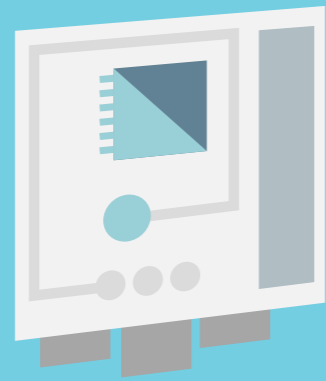
The Department of Software Engineering

Name	Telephone No.	Field of Research	Email
Prof. Shlomo Mark	054-7733842 08-8519078	Scientific computation, Agile software life cycle, Software Quality, ethics in Software engineering, simulations of Monte Carlo methods	marks@sce.ac.il
Dr. Marina Knyazhansky	054-5313189 08-8519314	Knowledge databases, simulation of physical and biological processes, and visualization processing of data	marinak@sce.ac.il
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Dr. Natalia Venetik	052-8824112 08-6475015	Text mining, data mining, data analysis, data science, combinatorial optimization	natalyav@sce.ac.il
Dr. Marina Litvak	054-2027451 08-6475065	Automatic multilingual text summarization, information, Extraction, recommender systems, graph mining, information retrieval	marinal@ac.sce.ac.il
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Dr. Hadas Chasidim	052-3261493	Software quality, human-computer interaction, software development, software project management	hadasch@sce.ac.il
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Dr. Alexander Churkin	054-7652967	Optimization, pattern matching and search algorithms, scientific computing and computational biology	alexach3@ac.sce.ac.il
Dr. Eliyahu Itzhak	052-5241650	Geometric Information Systems (GIS), CyberGIS, Goe-IOT, Spatial Analysis, Location Based Services, Digital Cartography	eliit@ac.sce.ac.il
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The Department of Civil Engineering

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Prof. Robert Levy	050-2029712	Geometrically nonlinear structures; Cablenets and Fabric Structures; Seismic upgrade of buildings using energy dissipation devices; Earthquake Engineering and Structural Dynamics; Structural Optimization	roberle@sce.ac.il
Dr. Rami Eid	052-8722955 08-6475717	Structure reinforcement against earthquakes, use of compound materials for structure reinforcement, Structural behavior of High Strength Concrete (HSC) and Fiber-Reinforced Concrete (FRC), performance-based design	ramiei@sce.ac.il
Dr. Rina Farhat	050-5922379 08-6475826	The design and analysis of reinforced and pre-stressed concrete structures, structural seismic durability, involvement on regulatory standards in these fields	rinaf@sce.ac.il
Dr. Vladislav Kholmer	054-4673707 08-6475805	Effect of vibration field characteristics on matter flow through a two phase environment, the development of methods for improving matter flow, the improvement of motor vehicle fuel efficiency and air pollution levels, motor vehicle safety	kholmer@sce.ac.il
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Dr. Itai Elkayam	054-6634219	Tunneling and soil structure interaction due to tunneling.	itaiel@sce.ac.il
Dr. Prosper Dayan	052-2905654	Numerical methods in acoustic waves analysis for linear and non linear materials	prospda@sce.ac.il
Dr. Orit Leibovitch	052-3314301	Reinforced concrete , Bond mechanism in reinforced concrete, Punching shear, Design of concrete structures for earthquakes, Image correlation analysis	oritle@ac.sce.ac.il
Dr. Uri Kushnir	054-7427880	Remote sensing in the ocean for environmental and engineering purposes, Electromechanical coupling and smart structures	uriku@ac.sce.ac.il



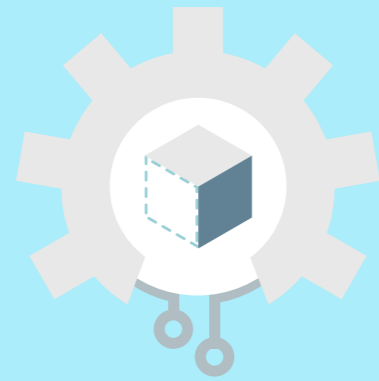
The Department of Electrical and Electronic Engineering

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Dr. Tom Trigano	054-6427316 08-8519037	Statistical signal processing and applied statistics, Sparse signal processing	thomast@sce.ac.il
Dr. Yoram Horen	055-8828874 08-6475708	The study of non-linear dynamics, boundary control and optimal control, circuits, power systems and the physics of electronic devices	yoramh@sce.ac.il
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Dr. Dmitri Baimel	052-9535880 08-6475872	Power Electronics, power systems, electric machines	dmitrba@sce.ac.il
Dr. Zion Menachem	054-7201780 08-6475745	Wave propagation in dielectric waveguides with circular and helical cross sections for applications in the microwave and infrared fields, qualities and behavior of artificial materials	zionme@sce.ac.il
Dr. Gregory Samelsohn	052-3423643	Electromagnetics and acoustics, Antennas, radars and sonar, Advanced imaging systems, reverse issues including tomography	gregosa@sce.ac.il
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Dr. Moshe Zohar	054-6237788 08-6475747	1. Light management in energy harvesting optical devices through nano-metric structures with cyclic patterns and meta-surfaces. 2. High sensitivity light detectors based on cyclic multi-layered structures in nano-metric dimensions. 3. Use of DPN lithography with insulators and conductive materials to create filters, microstrips and couplings	moshezo@ac.sce.ac.il
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The Department of Chemical Engineering

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Prof. Dorith Tavor	054-7733826 08-6475634	Sustaining chemical processes, solidification of wastewater, sustaining services. Water and wastewater treatment and Development of two-phase flow system	dtavor@sce.ac.il
Prof. Adi Wolfson	054-7733805 08-6475766	Environment friendly chemical processes and sustainable services	adiw@sce.ac.il
Dr. Oshrat Ontman	052-8018062 08-6475007	Investigation the chemical composition, structure, physico-chemical nature and function/bioactivities of algal polysaccharides; Elucidation the N- glycosylation pathway in red microalgae; Heterogenization of homogeneous catalysts in renewable polysaccharides	oshrale@sce.ac.il
Dr. Yoram Shotland	054-3030736 08-6475731	Biotechnology, Plant secondary metabolism bioinformatics	yshotlan@sce.ac.il
Dr. Oshra Sapir	052-5891110 08-6475012	Study of the anti-oxidative properties of human-source liquids, such as blood and breast milk, study of breast milk substitutes for newborn babies	oshras@sce.ac.il
Dr. Kfir Ben Harush	052-3202484 08-8519024	Lamin-based materials structure and mechanics	kfirb@sce.ac.il
Dr. Tamar Barak	054-6300923 08-8519030	Excited state acidity and proton transfer; Fluorescence techniques for Diagnosis, and detection of fungal infections in plans through Fluorescent emissions	tamarb@sce.ac.il
Dr. Eyal Tzur	054-6813479 08-8519365	Olefin metathesis, Organometallics chemistry, Synthetic organic Chemistry	eyalt@sce.ac.il
Dr. Yulia Penso	050-7989600 08-8519034	Hormonal and enzymatic markers of stress and anxiety	yuliap@sce.ac.il
Dr. Inna Levitsky	052-8389543 08-6475004	Development of a system for two-phase flow, Water and wastewater treatment	levii2@sce.ac.il



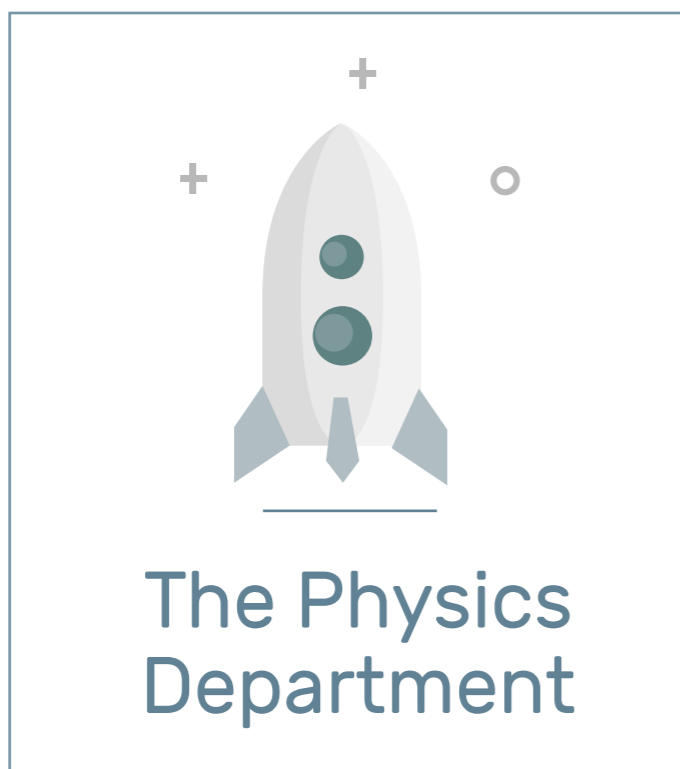
The Department of Mechanical Engineering

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Dr. Gedalia Mazor	054-7733802 08-6475756	Mechanical Engineering - Thermodynamics, flow, shock waves reflections in solids and gas and heat transfer	mazorg@sce.ac.il
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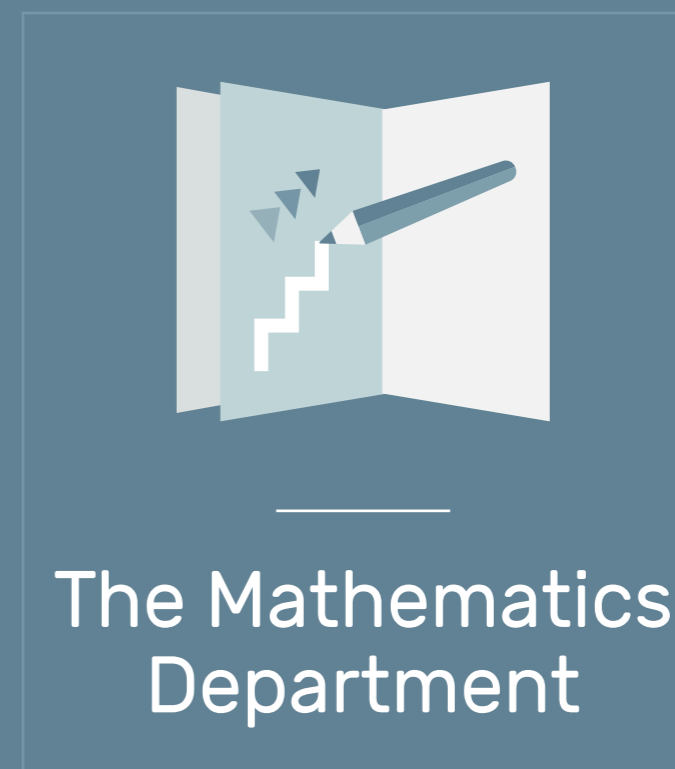


The Department of Industrial Engineering and Management

Name	Telephone No.	Field of Research	Email
Prof. Yossi Hadad	054-7733845 08-6475645	Ranking of Alternatives or organizational units	yossi@sce.ac.il
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Prof. Baruch Keren	054-6964001 08-6475644	Decision making under uncertainty, production planning, project management and operations research	baruchke@sce.ac.il
Prof. Gregory Gurevich	054-5319747 08-8519068	Probability theory, statistics, change point problems, goodness-of-fit testing, nonparametric tests, statistical methods in medicine, empiric visibility, stochastic models in project management	gregoryg@sce.ac.il
Dr. Hagai Ilani	054-7733846 08-8519025	Scheduling and Timetabling methods-theory and practice	hagai@sce.ac.il
Dr. Ofer Barkai	050-5665586 08-8519063	Wage and compensation strategies at the organizational and managerial levels, incentive plans, adjusting organizational structures to meet strategic goals, analyzing the impact of hybrid structures on corporate performance, research on the service organization and process, information technologies in the service sector	ofer@sce.ac.il
Dr. Elinor Etam	054-7330198 08-8519059	Examination of users interfaces, interaction with information systems, Users experience	elinoet@sce.ac.il
Dr. Dimitri Alberg	054-5219604 08-6475638	Reading data, Data retrieval and filtering, Business Intelligence and Data Warehousing, cyber and fraud detection algorithms	dimitria@sce.ac.il
Dr. Svetlana Daichman	050-9436962 08-6475619	Operations research and its applications, multiple criteria decision analysis , cost-benefit analysis and cost-effective health care, social choice theory, voting in committees, public transportation, elderly population	daichman@sce.ac.il
Dr. Lev Khavatskin	050-7577709 08-6475789	Indicators for multi-state system subject to planning requirements, LZ conversion for ongoing and individual Markovian and their application for the reliability of multi-state systems, mathematical models and maintaining for the multi-state systems, the agreement for the for the optimal fraction maintenance of multi-state systems, general generating functions for the study of the reliability of multi-state systems	khvat@sce.ac.il
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Dr. Ronit Shmallo	050-2381002 08-8519169	Teaching Computer Science, Object Oriented Programming, Learning from Errors, Analysis and Design of Information Systems, Teaching Semantic Database Modeling, Innovative Teaching Approaches in Higher Education	ronits1@sce.ac.il
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Dr. Alisa Voslinsky	052-8675032	Behavioral Economics, Decision Making	alisavo@ac.sce.ac.il

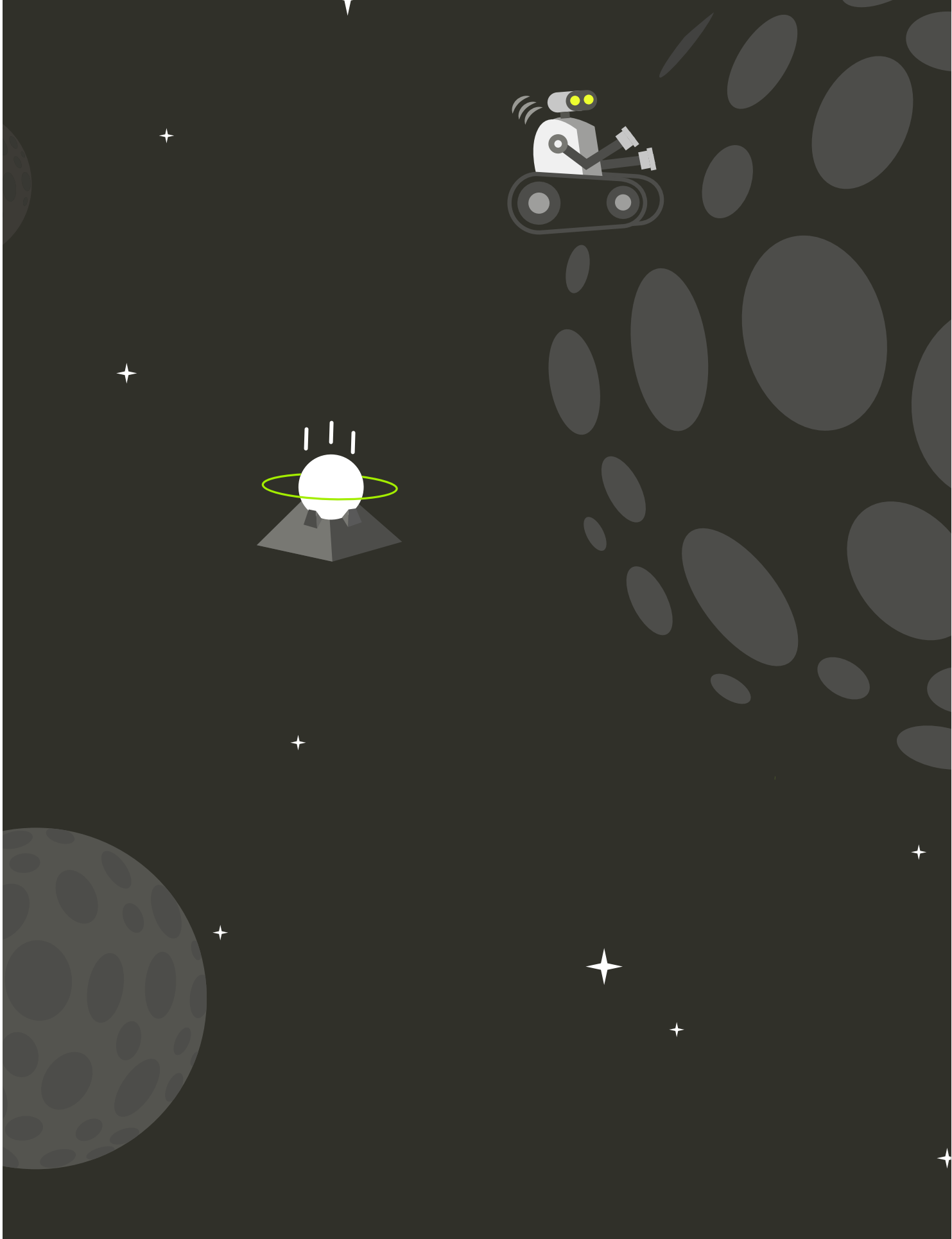


Name	Telephone No.	Field of Research	Email
Prof. Leonid Oster	050-7523217 08-6475239	Experimental solid state physics	leonido@sce.ac.il
Prof. Ahmad Salman	054-6206714 08-6475794	Infrared spectroscopy, Raman spectroscopy, fluorescence, and using these methods in the study of various biological systems such as colonic cancer, bacteria attacking agricultural crops and abnormal cell cultures. Rapid Diagnosis of Bacterial and Viral Human Infections Using Infrared Microscopy of Peripheral Blood Samples and Machine Learning Algorithms. Detection of Antibiotic Resistant Bacteria Using Infrared Microscopy and Advanced Multivariate Analysis	ahmad@sce.ac.il
Dr. Elad Shufan	052-3869335 08-8519372	Optimization in scheduling problems; Characterization and identification of biological samples by spectroscopic pattern recognition	elads@sce.ac.il
Dr. Doron Braunstein	054-5938053 08-6475704	Laser theory, quantum optics and radiation matter interactions, Investigation of waves in excitable media and especially the development of fibrillatory activity in the heart and brain	doronb@sce.ac.il
Dr. Ella Smolik	050-2255298 08-6475236	Plasma instabilities and their application in the creation of radiation mechanisms astrophysics, Lasing without inversion	elag@sce.ac.il
Dr. Dmitry Nemirovsky	052-6144621 08-8519061	Neutron and electron Compton scattering heat transfer enhancers, flow theory, Molecular Spectroscopy, Vibrational Normal Modes, Neutron Compton scattering, Heat Transfer enhancement, Underground Heat Storage, Phase Change Materials	demitryn@sce.ac.il
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Dr. Stein Itamar Shmuel	054-7824661	Representation theory of monoid and category algebras. String rewriting systems	itamast@ac.sce.ac.il
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The information listed in this booklet is correct for the 2019-2020 academic year (5780)
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