



Researchers

2018-2019





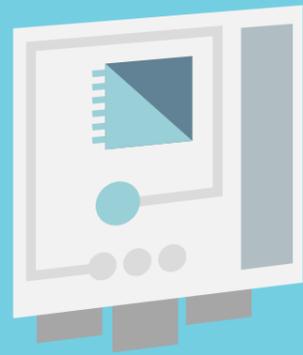
The Department of Software Engineering

Name	Telephone No.	Field of Research	Email
Prof. Shlomo Mark	054-7733842 08-8519078	Science computer systems, software and sustainability services, simulations of Monte Carlo methods	marks@sce.ac.il
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Dr Alexander Churkin	054-7652967	Optimization, pattern matching and search algorithms, scientific computing and computational biology	alexch3@ac.sce.ac.il
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The Department of Civil Engineering

Name	Telephone No.	Field of Research	Email
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Prof. Wafa Elias	054-7787929 08-8519342	'Passengers and drivers' behavior at the time of car accidents	wafael@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
Dr. Eduard Leibovitch	052-3404944 08-6475866	Structure design, Seismic design of structures, steel structures	edwardl@sce.ac.il
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Dr. Vladimir Skolinsky	054-6393660	Progressive Failure Analysis of Sandwich Structure under Ouasi-static and Dynamic Loading Conditions	vladiso@ac.sce.ac.il
Dr. Amit Kenny	052-4769952	Construction materials	amitke@sce.ac.il
Dr. Valdimir Frid	054-4761450	Rock physics, Geology and Geophysics including fracture, soil and rock mechanics, applied geophysics including acoustic/seismic methods, ground penetration radar, Electromagnetic methods.	vladimirf@ac.sce.ac.il
Dr. Itai Elkayam	054-6634219	Tunneling and soil structure interaction due to tunneling.	itaiel@ac.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
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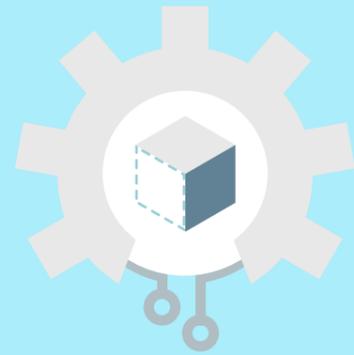
The Department of Electrical and Electronic Engineering

Name	Telephone No.	Field of Research	Email
Prof. Saad Tapuchi	054-7733809 08-6475700	Development of an electrostatic engine, development of systems for detection of metal in soil, power electronics	tapuchi@sce.ac.il
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Dr. Irit Juwiler	054-7733854 08-8519048	Nonlinear optics	irirtj@sce.ac.il
Dr. Tom Trigano	054-6427316 08-8519057	Statistical signal processing and applied statistics, thin data 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. Svetlana Bronstein	054-5462658 08-6475776	Power Electronics: analysis, models and control methods	svetlanab@sce.ac.il
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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
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Dr. Peter Beker	052-6536364	Carbon crystal electrodes for supercapacitors applications	bakap@sce.ac.il
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
Dr. Marcus Roitman	053-8293918 08-8519354	Renewable energy sources, economic aspects in power systems and energetic efficiency	marcoro@sce.ac.il



The Department of Chemical Engineering

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Dr. Ariela Burg	052-6433773 08-6475009	The study of oxidation processes and redox reaction mechanisms in biological systems and water solutions. Study of catalytic reactions in heterogeneous and homogenous systems	arielab@ac.sce.ac.il
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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
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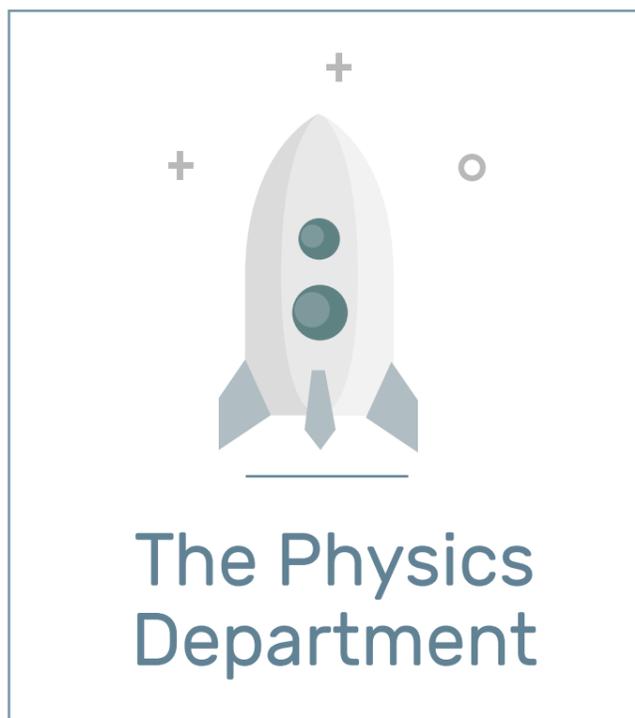
The Department of Mechanical Engineering

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Dr. Elad Priel	050-6232058 08-6475884	Mechanics of Solids, computational methods, bio-computational mechanics	eladp@sce.ac.il
Dr. Yoav Yaakov Biton	058-6000595 08-6475714	DNA and DNA protein interaction mechanics, mechanic behavior of cells, bifurcations in stable elastic systems of elastic poles and polymers, molecular mechanics and Monte Carlo methods	yoavybi@sce.ac.il
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Dr. Orly Hakimi	050-4900009 08-6475025	The prospects of new developed Mg alloys as structural materials for biodegradable implants	orlyha@sce.ac.il
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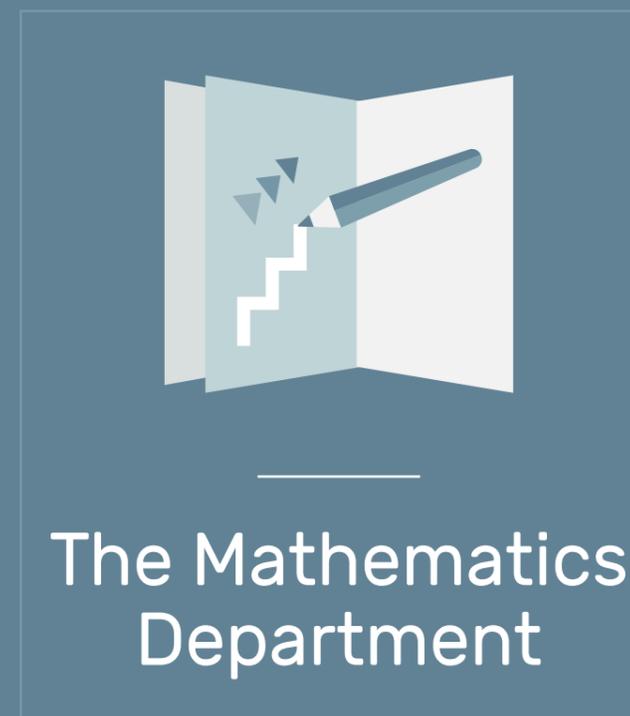


The Department of Industrial Engineering and Management

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Prof. Baruch Keren	054-6964001 08-6475644	organizational unit ranking, incentive pay methods, production and operations management, project management	baruchke@sce.ac.il
Prof. Yossi Hadad	054-7733845 08-6475645	Ranking of Alternatives or organizational units	yossi@sce.ac.il
Dr. Hagai Ilani	054-7733846 08-8519025	Scheduling and Timetabling methods-theory and practice	hagai@sce.ac.il
Dr. 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. Adi Katz	050-6582103 08-8519325	HCI (Human-Computer Interaction), Interactive system design, CMC (computer mediated communication), collaborative computer supported work, IT aesthetics and usability, Metaphoric interfaces Databases semantic data modelling	adis@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
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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
Dr. Rita Ttoitsky	054-4906296 08-6475774	Pension economics, aging, quality of life and poverty among elderly population	rita1@sce.ac.il
Dr. Izhak Minchuk	054-6883856 08-6475698	Game theory, auction theory and contest theory	yizhami@sce.ac.il
Dr. Ronit Shmallo	050-2381002 08-8519169	Teaching computer science, object oriented programming, learning from mistakes, teaching semantic database modeling by learning from mistakes, teaching object-oriented programming by learning from mistakes	ronits1@sce.ac.il
Dr. Gali Nave	050-5890370	Dissemination of innovation, integration of technology in supply chains, integration of technology in education	galinaveh@sce.ac.il

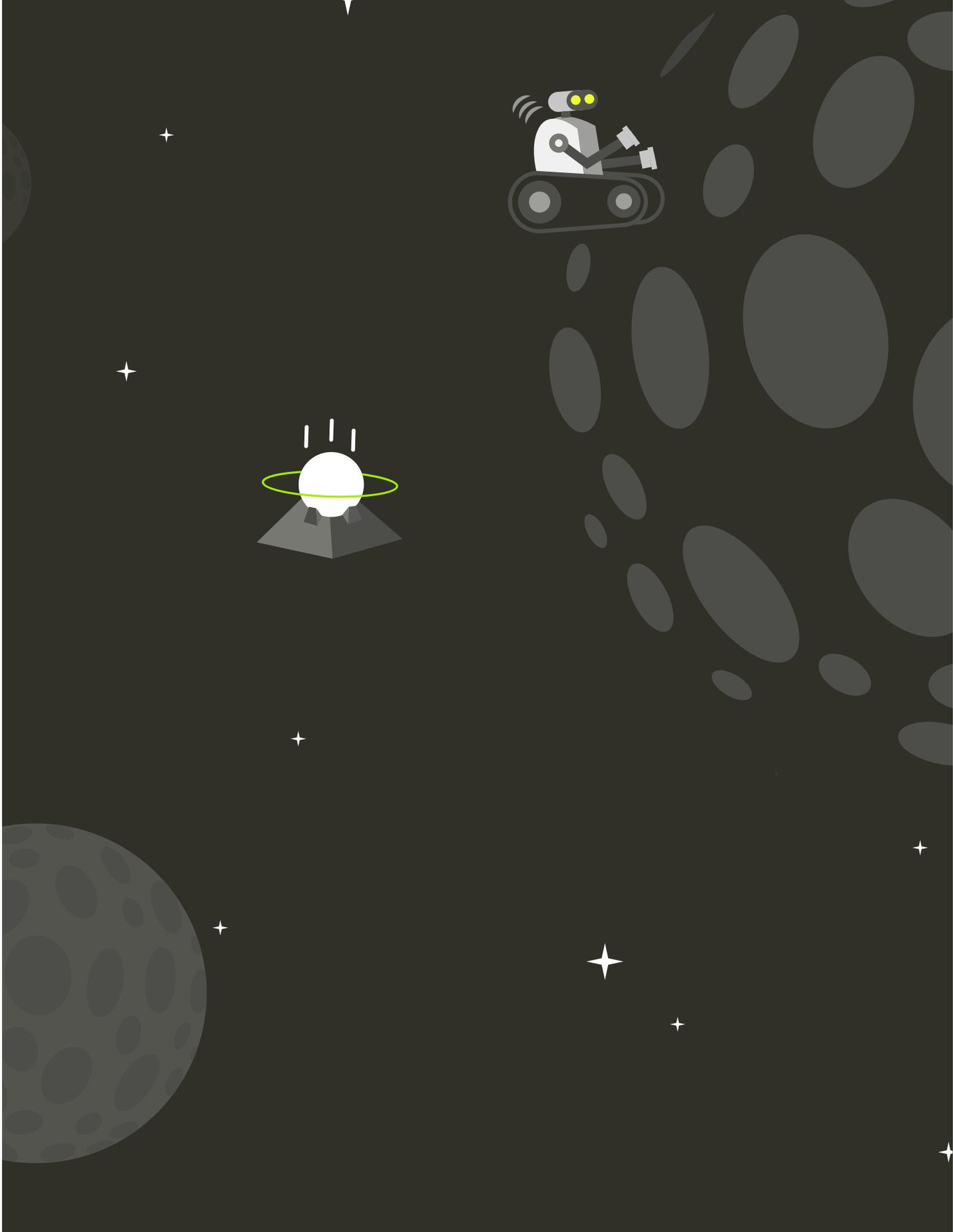


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Dr. Elad Shufan	052-3869335 08-8519372	Interactions and quantum Hall effect, determining optimal times, identification by spectral patterns	elads@sce.ac.il
Dr. Ahmad Salman	054-6206714 08-6475794	Infrared spectroscopy, Raman spectroscopy, fluorescence, and using these methods in the study of various biological systems such as colonic cancer, bacteria attacking agricultural crops and abnormal cell cultures	ahmad@sce.ac.il
Dr. Doron Braunstein	054-5938053 08-6475704	Laser theory, quantum optics and radiation matter interactions	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	demitryn@sce.ac.il
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Dr. Arthur Mouftakhov	054-5395529 08-8512053	Inverse problem of boundary conditions	artorm@sce.ac.il
Dr. Shai Sarussi	050-7508977 08-6475895	Quasi-valuations	sarussh@sce.ac.il
Dr. 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 2018-2019 academic year (5779)
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