
Researchers

2020-2021





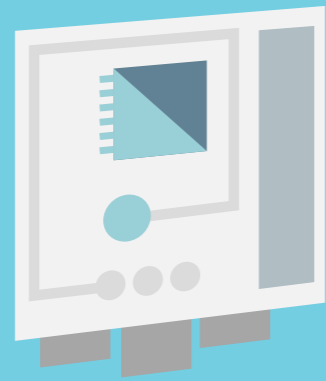
The Department of Software Engineering

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| 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 | 1. Scientific visualization: the modeling, analysis and visualization of scientific processes and complex data 2. Visual Analytics: the integration of analysis and visualization In the field of: a. Structural Mechanics and Material Engineering b. Medical Physics and Cardiovascular Angioplasty c. Digital Health | marinak@sce.ac.il |
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| Dr. Lior Aronshtam | 052-3307157 | Sport manipulation, scheduling, engineering education | liorar1@sce.ac.il |
| Dr. Tamar Shrot | 054-4229670 | Intelligent human computer interfaces and parameterized complexity - artificial intelligence, Software Engineering Education | tammash@sce.ac.il |
| Dr. Hadas Chasidim | 052-3261493 | Software quality, human-computer interaction, software development, software project management | hadasch@sce.ac.il |
| Dr. David Tankus | 050-6974089 | Combinatorics, well covered graphs, algorithms in graphs, NPC issues | davidt@sce.ac.il |
| Dr. Alexander Churkin | 054-7652967 | Optimization, pattern matching and search algorithms, scientific computing and computational biology, Bioinformatics | alexach3@ac.sce.ac.il |
| Dr. Haddasa Daltrophe | 054-6822566 08-8519351 | Communication networks algorithms, Blockchain, Social networks analysis, Big data research | hadasda1@sce.ac.il |
| Dr. Irina Rabaev | 054-4715861 | Image Processing | irinar@ac.sce.ac.il |
| Dr. Michael Kiperberg | 050-8491275 | Applications of virtualization in cyber security | michaki1@sce.ac.il |



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 | Retrofitting of structures for earthquake resistance, use of fiber-reinforced polymer (FRP) for structural elements, structural behavior of high-strength concrete (HSC), structural behavior of fiber-reinforced concrete (FRC), structural behavior of concrete elements reinforced with carbon fiber textiles (textile reinforced concrete -TRC), performance-based design | ramiei@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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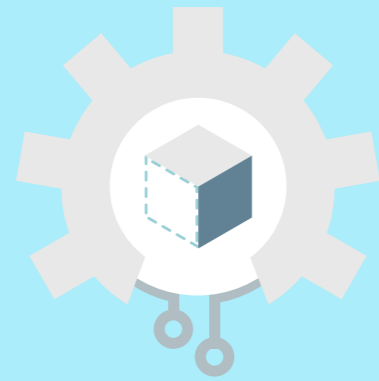
The Department of Electrical and Electronic Engineering

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|-------------------------|---------------------------|---|----------------------------|
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| Dr. Michal Goldenberg | 054-5372378 08-8519302 | Tissue Engineering heart tissue and ovarian follicle tissue, Biomaterials, bioreactors, bio-production | michalg@sce.ac.il |
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| Dr. Oshrat Ontman | 052-8018062 08-6475007 | Investigation the chemical composition, structure, physico-chemical nature and function/bioactivities of renewable polysaccharides; Elucidation the N- glycosylation pathway in red microalgae; Heterogenization of homogeneous catalysts in renewable polysaccharides; Studies of metal removal by renewable polysaccharide | oshrale@sce.ac.il |
| Dr. Yoram Shotland | 054-3030736 08-6475731 | 1. Microbiology - Monovalent copper as an antibacterial substance 2. Bioinformatics: A. Analysis of the Khat (Catha edulis) plant transcriptome B. Identification of highly expressed genes in Pistacia palaestina galls C. Genome comparison for the identification of pathogenic genes in the Acidovorax bacterial family | yshotlan@sce.ac.il |
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| Dr. Shabtay Bilu | 054-6543598 | Human-like android for students differentiated teaching and tracking in the classroom. Lecturers' feelings towards distance synchronous teaching during the Corona 2020 crisis. Lecturers' Outcomes Using Project-Oriented Learning Methods. Students' Outcomes in Design & Development Mechatronics Systems Course Students' Outcomes in MATLAB Software Programming Course. | shaykbi@ac.sce.ac.il |
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| Dr. Alon Weiss | 050-8258206 | Biomimetic Design | alonwe@sce.ac.il |
| Dr. Merav Arogeti | | Drop impact on different surfaces | meravar@sce.ac.il |
| Dr. Hofit Itzhak-Ben-Shalom | 052-4550040 | Urban warming and global warming (GW) climate change, with a special focus in arid zones. Sustainable architecture with a special focus on resources conservation Post-Occupancy Evaluation (POE) and Indoor Environment Quality (IEQ) | hofitben@gmail.com hofitit@sce.ac.il |

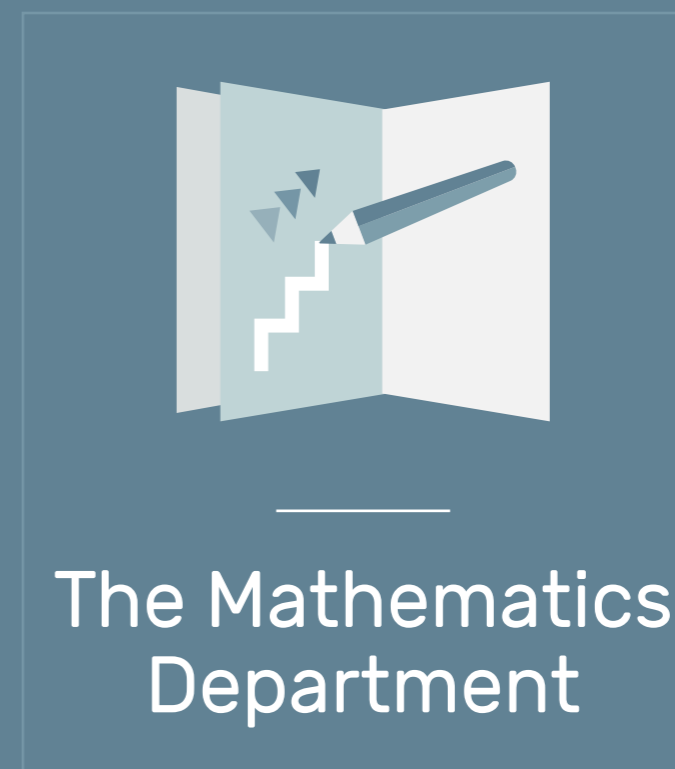


The Department of Industrial Engineering and Management

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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 |
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| 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 | 1. Designing vehicle routes and schedules in problems of pickup and delivery; generalised open shop problems; generalised assignment problems. 2. Machine learning and spectroscopy aimed to characterise and identify biological systems; cancer detection at the early stages of malignancy. 3. Stone transport and coastal sorting dynamics. | elads@sce.ac.il |
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| Dr. Ari-Meir Brodsky | 058-7141592 08-6475656 | Set theory https://en.sce.ac.il/faculty/ari_brodsky | arimebr@sce.ac.il |
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The information listed in this booklet is correct for the 2020-2021 academic year
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