TEDDY LAZEBNIK

Last update: 26.9.2024

PROFESSIONAL SUMMARY

Mathematical models and algorithms researcher and developer in the fields of epidemiology, medicine, economics, and information systems. More than a decade of experience in software development in the industry, including eight years of experience as an algorithm developer with a focus on data-driven algorithms for bio-medical and financial tasks.

ACADEMIC EDUCATION

Ariel University 2020 - 2021
Ph.D. in (Bio)mathematics

· Thesis about "Modeling and Numerical Calculation of Pandemic Spread and Optimal Oncology Treatment Protocols" - supervised by Prof. Svetlana Bunimovich-Mendrazitsky.

Bar-Ilan University 2017 - 2018
M.Sc. in Applied Mathematics

· Thesis about "Highly Stable Numerical Algorithm for Matrix Exponent" - supervised by Dr. Shlomo Yanetz.

Bar-Ilan University 2013 - 2016
B.Sc. in Applied Mathematics

· Final project about "Observable of Discrete-continuous Linear Time Interval Systems with Continuous Time Measurement".

ACADEMIC EMPLOYMENT

Ariel University, Department of Mathematics October 2023 - Current
Assistant Professor

· Lecturing Calculus 1 + 2 for mathematicians (Bachelor's degree).
· Lecturing Calculus 1 for mechanical engineering (Bachelor's degree).
· Lecturing Introduction to Reinforcement Learning (Bachelor's degree).

Reichman University, Department of Computer Science Feb 2023 - July 2023
Teaching Associate

· Lecturing Operation Systems (Bachelor's degree).

Bar Ilan University, Department of Information Science and Department of Management Feb 2023 - July 2023
Teaching Associate

· Lecturing Business Intelligence (Bachelor's degree).
· Lecturing Back-end Development (Bachelor's degree).

Holon Institute of Technology, Department of Computer Science Feb 2023 - July 2023
Teaching Associate

· Lecturing "Introduction To Cybersecurity" (Bachelor's degree).
· Lecturing "The Mathematical Aspects of Cybersecurity" (Master's degree) - my own course.

University College London, Department of Cancer Biology Sep 2021 - Aug 2023
Honorary Post-doctoral researcher (Hosted by Prof Stephan Beck)

- Developed a novel artificial genomics generator using machine learning and bio-genomic models.
- Leading research in the development of personalized medicine through data-driven algorithms.

Bar-Ilan University, Department of Computer Science Jul 2020 - Jul 2021
Research And Teaching Assistant

- Teaching the following courses: Advanced Programming 1 and Advanced Programming 2 - all Bachelor's degree.
- Academic research guidance for Master computer science students' final project.
- Developed a Mathematical model & simulation of nanoparticles-based targeted drug delivery.
- Developed a novel academic search engine from scratch to tackle local concept drift in academic search.

Bar-Ilan University, Department of Mathematics Oct 2018 - Jul 2020
Research And Teaching Assistant

- Teaching the following courses: Partial differential equations (PDE), Introduction to linear mathematical optimization, Numerical Analysis 1, and Tools for Numerical Programming for Engineering - all Bachelor's degree.
- Academic research guidance and code review for Bachelor and Master computer science students' final project.

Holon Institute of Technology, Department of Mathematics Feb 2020 - Jul 2020
Lecturer

- Teaching Deep Learning for Computer Vision (Bachelor's degree).

Holon Institute of Technology, Department of Mathematics Oct 2019 - Feb 2020
Teaching Assistant

- Teaching Numerical Analysis (Bachelor's degree).

ACADEMIC HONORS AND AWARDS

Ariel University 2022
Ph.D. student

- A prize for academic excellence with multiple high-quality publications.

Bar-Ilan University 2017
M.Sc student

- A prize for excellence in studies and research at the master's degree in the name of David Barkovski.

STUDENTS SUPERVISION

Undergraduate students

- Bar Ilan University, Chen Tal-Schachar, 2018-2019 (Under the supervision of Prof' Gal A. Kaminka).
- Bar Ilan University, Pedro Nissan, 2017-2017 (Under the supervision of Prof' Gal A. Kaminka).

M.Sc. students

- Bar Ilan University, Ariel Alexi, 2023-2024 (co-advisor with Prof. Ariel Rosenfeld).
- Tel Aviv University, Liron Simon Keren, 2021-2022 (Help to advise with Prof' Alexander Liberzon).
- University College London, Jackson Cheung, 2022 (Help to advise under the supervision of Prof' Stephan Beck).
- Ariel University, Yonatan Herskowitz, 2022-2023 (co-advisor with Prof. Svetlana Bunimovich-Mendrazitsky).

P.hD. students

- Ariel University, Adi Shuchami, 2024-current.
- Ariel University, Ariel Alexi, 2024-current.
- Bar Ilan University, Dr. Assaf Shmuel, 2023-current (co-advisor with Dr. Oen Glickman).

TEACHING COURSING

Academic courses

- Ariel University, Calculus 1.
- Ariel University, Calculus 2.
- Bar Ilan University, Introduction to cybersecurity for managers [my course].
- Ariel University, Introduction to reinforcement learning [my course].
- Reichman University, Operation Systems.
- Holon Institute of Technology, Mathematical aspects in cybersecurity [my course].
- Holon Institute of Technology, Introduction to cybersecurity [my course].
- Bar Ilan University, Back-end development.
- Bar Ilan University, Business Intelligence.
- Bar Ilan University, Advanced Programming 2.
- Bar Ilan University, Advanced Programming 1.
- Bar Ilan University, Numerical Analysis (X2).
- Bar Ilan University, Introduction to Linear Mathematical Optimization and Tools for Numerical Analysis for Engineers.
- Holon Institute of Technology, Deep Learning for Computer Vision tasks.
- Holon Institute of Technology, Numerical Analysis.
- Bar Ilan University, Introduction to Linear Mathematical Optimization.
- Bar Ilan University, Partial Differential Equations.

Industry courses

- Naya College, Data Science (420 hours course): Introduction to Programming in Python, Data Analysis, Introduction to Machine Learning, Introduction to Deep Learning, and Introduction to MLOps (X2).
- Y-Data, Introduction to Machine Learning.

SCIENTIFIC PUBLICATIONS

Scientific Journals

1. **T. Lazebnik**, A. Rosenfeld, A Computational Model For Individual Scholars' Writing Style Dynamics. Journal of Writing Research. 2024.
2. **T. Lazebnik**, Mathematical Model of Dating Apps' Influence on Sexually Transmitted Diseases Spread Dynamics. Social Network Analysis and Mining. 2024.
3. **T. Lazebnik**, O. Iny, Temporal Graphs Anomaly Emergence Detection: Benchmarking For Social Media Interactions. Applied Intelligence. 2024.
4. M. Levi, **T. Lazebnik**, S. Kushnir, N. Yosef, D. Shlomi, Machine Learning Computational Model to predict Lung Cancer Using Electronic Medical Records. Cancer Epidemiology. 2024.
5. **T. Lazebnik**, A. Rosenfeld, Detecting LLM-Assisted Writing in Scientific Communication: Are We There Yet?. Journal of Data and Information Science. 2024.
6. **T. Lazebnik**, Y. Golov, R. Gurka, A. Harari, A. Liberson, Exploration-Exploitation Model of Moth-Inspired Olfactory Navigation. Journal of the Royal Society Interface. 2024.
7. **T. Lazebnik**, S. Bunimovich-Mendrazitsky, Predicting the locaiton of metastates of lung cancer using the location of the original location. Frontiers in Medicine. 2024.
8. A. Shmuel, **T. Lazebnik**, O. Glickman, Symbolic Regression as Feature Engineering Method for Machine and Deep Learning Regression Tasks. Machine Learning: Science and Technology. 2024.
9. A. Alexi, **T. Lazebnik**, A. Rosenfeld, The Scientometrics and Reciprocality Underlying Co-Authorship Panels in Google Scholar Profiles. Scientometrics. 2024.

10. **T. Lazebnik**, L. Simon-Keren, Knowledge-integrated AutoEncoder Model. Expert Systems With Applications. 2024.

11. **T. Lazebnik**, Going a Step Deeper Down the Rabbit Hole: Deep Learning Model to Measure the Size of the Unregistered Economy. Computational economics. 2024.

12. **T. Lazebnik**, S. Bunimovich-Mendrazitsky, More Numerically Accurate Algorithm For Matrix Exponential. Mathematics. 2024.

13. **T. Lazebnik**, Cost-optimal Seeding Strategy During a Botanical Pandemic in Domesticated Fields. Chaos: an interdisciplinary journal of nonlinear science. 2024.

14. **T. Lazebnik**, A. Rosenfeld, A New Definition For Feature Selection Stability Analysis. (Accepted). Annals of Mathematics and Artificial Intelligence. 2024.

15. T. Travain, **T. Lazebnik**, A. Zamansky, S. Cafazzo, P. Valsecchi, E. Natoli, Environmental enrichments and data-driven welfare indicators for sheltered dogs using telemetric physiological measures and signal processing. Scientific Reports. 2024.

16. **T. Lazebnik**, S. Bunimovich-Mendrazitsky, A. Rosenfeld, An Algorithm to Optimize Explainability using Feature Ensembles. Applied Intelligence. 2024.

17. G. Dinu, **T. Lazebnik**, A. Rosenfeld, M. Mincu, O. Oren, I. Nicolae, A. Zamansky, BovineTalk: Machine Learning for Vocalization Analysis of Dairy Cattle in Negative Affective States. Frontiers in Veterinary Science. 2024.

18. L. Simon-keren, **T. Lazebnik**, A. Liberzon, Improved Prediction of Settling Behaviour of Solid Particles through Machine Learning Analysis of Experimental Retention Time Data. International Journal of Multiphase Flow. 2024.

19. **T. Lazebnik**, L. Shami, S. Bunimovich-Mendrazitsky, Hybrid Mathematical Model for Optimal Border Closure Policy during Pandemic. International Journal of Applied Mathematics and Computer Science. 2023.

20. N. Farhat, **T. Lazebnik**, J. Monteny, C. Moons, E. Wydooghe, D. van der Linden, A. Zamansky, Digitally-Enhanced Dog Behavioral Testing: Getting Help from the Machine. Scientific Reports. 2023.

21. J. Magana, D. Gavojdian, Y. Menachem, **T. Lazebnik**, A. Zamansky, A. Adams-Progar, Machine Learning Approaches to Predict and Detect Early-onset of Digital Dermatitis in Dairy Cows using Sensor Data. Frontiers in Veterinary Science. 2023.

22. A. Oren, J. D. Turkcu, S. Meller, **T. Lazebnik**, P. Wiegel, R. Mach, H. A. Volk, A. Zamansky, BrachySound: Machine Learning Based Assessment of Respiratory Sounds in Dogs. Scientific Reports. 2023.

23. **T. Lazebnik**, D. Gorlitsky, Can We Mathematically Spot Possible Manipulation of Results in Research Manuscripts Using Benford's Law?. Data. 2023.

24. **T. Lazebnik**, S. Beck, L. Shami, Academic Collaboration is a Risky Game. Scientometrics. 2023.

25. N. Cohen, **T. Lazebnik**, Trust and Street-Level Bureaucrats' Willingness to Risk Their Lives for Others: The Case of Brazilian Law Enforcement. The American Review of Public Administration. 2023.

26. **T. Lazebnik**, T. Fleischer, A. Yaniv-Rosenfeld, Benchmarking Biologically-inspired Automatic Machine Learning for Economic Tasks. Sustainability. 2023.

27. **T. Lazebnik**, Data-driven Hospitals Staff And Resources Allocation Using Agent-Based Simulation and Deep Reinforcement Learning. Engineering Applications of Artificial Intelligence. 2023.

28. **T. Lazebnik**, L. Simon-Keren, Cancer-inspired Genomics Mapper Model for the Generation of Synthetic DNA Sequences with Desired Genomics Signatures. Computers in Biology and Medicine. 2023.

29. A. Alexi, A. Rosenfeld, **T. Lazebnik**, Multi-Species Prey-Predator Dynamics During a Multi-Strain Pandemic. Chaos: An Interdisciplinary Journal of Nonlinear. 2023.

30. N. Vardi, **T. Lazebnik**, The Causal Role of Lockdowns in COVID-19: Conclusions from Daily Epidemiological, Psychological, and Sociological Data. Psychiatric Quarterly. 2023.

31. **T. Lazebnik**, S. Bunimovich-Mendrazitsky, A. Kiselyov, Mathematical Model for BCG-based Treatment Of Type 1 Diabetes. Physica A: Statistical Mechanics and its Applications. 2023.

32. Y.Herskowitz, S. Bunimovich-Mendrazitsky, **T. Lazebnik**, Mathematical Model Of Coffee Tree's Rast Control Using Snails As Biological Agents. Biosystems. 2023.

33. D. Krongauz, **T. Lazebnik**, Collective Evolution Learning Model for Vision-Based Collective Motion with Collision Avoidance. Plos One. 2023.

34. A. Alexi, **T. Lazebnik**, L. Shami, Microfounded tax revenue forecast model with heterogeneous population and genetic algorithm approach. Computational Economics. 2023.

35. **T. Lazebnik**, A. Rosenfeld, FSPL: A meta-learning approach for a filter and embedded feature selection pipeline. Applied Mathematics and Computer Science. 2023.

36. **T. Lazebnik**, S. Bunimovich-Mendrazitsky, Decision Tree Post-Pruning Without Loss Of Accuracy using the SAT-PP algorithm with an Empirical Evaluation on Clinical Data. Data & Knowledge Engineering. 2023.

37. **T. Lazebnik**, L. Shami, S. Bunimovich-Mendrazitsky, Intervention Policy Influence on the Effect of Epidemiological Crisis on Industry-Level Production Through Input-Output Networks. Socio-Economic Planning Sciences. 2023.

38. A. Yaniv-Rosenfeld, E. Savchenko, A. Rosenfeld, **T. Lazebnik**, Scheduling BCG and IL-2 Injections for Bladder Cancer Immunotherapy Treatment. Mathematics. 2023.

39. L. Shami, **T. Lazebnik**, Implementing Machine Learning Methods in Estimating the Size of the Non-Observed Economy. Computational Economics. 2023.

40. L. Shami, **T. Lazebnik**, Financing and managing epidemiological-economic crises: Are we ready for another outbreak?. Journal of Policy Modeling. 2023.

41. L. Simon-Keren, A. Liberson, **T. Lazebnik**, A Computational Framework For Physics-Informed Symbolic Regression with Straightforward Integration of Domain Knowledge. Scientific Reports. 2023.

42. **T. Lazebnik**, A. Alexi, High resolution spatio-temporal model for room-level airborne pandemic spread. Mathematics. 2023.

43. **T. Lazebnik**, U. Itai, Bounding Pandemic Spread By Heat Spread. Journal of Engineering Mathematics. 2023.

44. A. Alexi, A. Rosenfeld, **T. Lazebnik**, A Security Games Inspired Approach for Distributed Controlling Of Pandemic Spread. Advanced Theory and Simulations. 2022.

45. **T. Lazebnik**, S. Bunimovich-Mendrazitsky, S. Ashkenazi, E. Levner, A. Benis, Early Detection and Control of the Next Epidemic Wave using Health Communications: Development of an Artificial Intelligence-based Tool and its Validation on COVID-19 Data from the US. International Journal of Environmental Research and Public Health. 2022.

46. Y. A. Veturi, W. Woof, **T. Lazebnik**, I. Moghul, P. Woodward-Court, S. K. Wagner, T. A. C. de Guimarães, M. D. Varela, B. Liefers, S. Beck, A. R. Webster, O. Mahroo, P. A. Keane, M. Michaelides, K. Balaskas, N. Pontikos, SynthEye: Investigating the impact of synthetic data on AI-assisted gene diagnosis of Inherited Retinal Disease. Ophthalmology Science. 2022.

47. A. Alexi, A. Rosenfeld, **T. Lazebnik**, The Trade-off Between Airborne Pandemic Control and Energy Consumption Using Air-Ventilation Solutions. Sensors. 2022.

48. L. Shami, **T. Lazebnik**, Economic Aspects of the Detection of New Strains in a Multi-Strain Epidemiological Mathematical Model. Chaos, Solitons & Fractals. 2022.

49. **T. Lazebnik**, Cell-level Spatio-Temporal Model for Bacillus Calmette-Guerin Based Immunotherapy Treatment Protocol of Superficial Bladder Cancer. Cells. 2022.

50. T. Gargantini, M. Daly, J. Sherlock, **T. Lazebnik**. Providing Safe Space for Honest Mistakes in the Public Sector Is The Most Important Predictor For Work Engagement After Strategic Clarity. Sustainability. 2022.

51. **T. Lazebnik**, Z. Bahouth, S. Bunimovich-Mendrazitsky, S. Halachmi, Predicting Acute Kidney Injury Following Open Partial Nephrectomy Treatment Using SAT-Pruned Explainable Machine Learning Model. BMC Medical Informatics and Decision Making. 2022.

52. **T. Lazebnik**, S. Bunimovich-Mendrazitsky, Generic Approach For Mathematical Model of Multi-Strain Pandemics. Plos One. 2022.

53. S. Natan, **T. Lazebnik**, E. Lerner, A distinction of three online learning pedagogic paradigms. SN Social Science. 2022.

54. Z. Zemah-Shamir, S. Zemah-Shamir, A. Scheinin, D. Tchernov, **T. Lazebnik**, G. Gal, A Systematic Review of the Behavioural Changes and Physiological Adjustments of Elasmobranchs and Teleost's to Ocean Acidification with a Focus on Sharks. Fishes. 2022.

55. **T. Lazebnik**, G. Blumrosen, Advanced Muti-Mutation with Intervention Policies Pandemic Model. IEEE Access. 2022.

56. E. Savchenko, **T. Lazebnik**, Computer Aided Functional Style Identification and Correction In Modern Russian Texts. Journal of Data, Information and Management. 2022.

57. **T. Lazebnik**, A. Alexi, Comparison of Pandemic Intervention Policies in Several Building Types Using Heterogeneous Population Model. Communications in Nonlinear Science and Numerical Simulation. 2022.

58. **T. Lazebnik**, L. Shami, S. Bunimovich-Mendrazitsky, Pandemic Management by a Spatio-temporal Mathematical Model. International Journal of Nonlinear Sciences and Numerical Simulation. 2021.

59. **T. Lazebnik**, S. Bunimovich-Mendrazitsky, L. Shaikhet, Novel Method to Analytically Obtain the Asymptotic Stable Equilibria States of Extended SIR-type Epidemiological Models. Symmetry. 2021.

60. **T. Lazebnik**, L. Shami, S. Bunimovich-Mendrazitsky, Spatio-Temporal Influence of Non-Pharmaceutical Interventions Policies on Pandemic Dynamics and the Economy: The Case of COVID-19. Economic Research-Ekonomska Istrazivanja. 2021.

61. **T. Lazebnik**, S. Bunimovich-Mendrazitsky, The signature features of COVID-19 pandemic in a hybrid mathematical model - implications for optimal work-school lockdown policy. Advanced Theory and Simulations. 2021.

62. **T. Lazebnik**, S. Bunimovich-Mendrazitsky, N. Aaroni, PDE based geometry model for BCG immunotherapy of bladder cancer. Biosystems. 2020.

Review Articles

1. **T. Lazebnik**, Computational Applications of Extended SIR Models: A Review Focused on Airborne Pandemics. 2023. Ecological Modelling.

Proceedings Papers

1. **T. Lazebnik**, A. Somech, Demonstrating SubStrat: A Subset-Based Strategy for Faster AutoML on Large Datasets. International Conference on Very Large Data Bases (VLDP). 2023.

2. **T. Lazebnik**, S. Bunimovich-Mendrazitsky, Improved Geometric Configuration for the Bladder Cancer BCG-based Immunotherapy Treatment Model. ISMCO. 2021.

Manuscripts Submitted / Under Review

1. **T. Lazebnik**, H. Weitman, Y. Goldberg, G. A. Kaminka, Rivendell: Project-Based Academic Search Engine.

2. N. Cohen, **T. Lazebnik**, Agent-Based Simulation of Street-Level Bureaucrats' Prosocial Tendencies in the Traditional, NPM, and Post-NPM Approaches to Public Administration.
3. L. Shami, **T. Lazebnik**, O. Akirev, Analysis of the Optimal Number of Ministers: The Case of Israel.
4. **T. Lazebnik**, L. Shami, A. Alexi, A. Rosenfeld, Economical-Epidemiological Analysis of the Coffee Trees Rust Pandemic.
5. N. Cohen, M. Davidovich, **T. Lazebnik**, Trust and Street-Level Bureaucrats' Perceptions about Organizational Readiness for Emergencies.
6. **T. Lazebnik**, The Family Tree Graph as a Predictor of the Family Members' Satisfaction with One Another.
7. L. Shami, **T. Lazebnik**, Nash and Trading Equilibria in a Public Good Economy with Finite Number of Private and Public Goods and Asymmetrical Agents.
8. A. Rosenfeld, A. Alexi, L. Mushiev, **T. Lazebnik**, The Academic Midas Touch: An Unconventional Scientometric for Evaluating Academic Excellence.
9. **T. Lazebnik**, O. Speigel, Individual Variation Affects Outbreak Magnitude and Predictability in an Extended Multi-Pathogen SIR Model of Pigeons Vising Dairy Farms.
10. N. Vardi, **T. Lazebnik**, M. Bar, Data-Using Machine Learning to Evaluate Ruminative Thinking From Associative Responses.
11. M. Glebov, **T. Lazebnik**, B. Orkin, H. Berkenstadt, S. Bunimovich-Mendrazitsky, Predicting Postoperative Nausea And Vomiting Using Machine Learning: A Model Development and Validation Study.
12. G. Martvel, **T. Lazebnik**, M. Feighelstein, L. Henze, S. Meller, I. Shimshoni, F. Twele, A. Schütter, N. Dorn, S. Kastner, L. Finka, S. P. L. Luna, D. S. Mills, H. A. Volk, A. Zamansky, Automated Pain Recognition in Cats using Facial Landmarks: Dynamics Matter.
13. T. Martvel, **T. Lazebnik**, M. Feighelstein, S. Meller, I. Shimshoni, L. Finka, S. Luna, D. Mills, H. A. Volk, A. Zamansky. Automated Landmark-Based Cat Facial Analysis and its Applications.
14. R. Peleg, **T. Lazebnik**, A. Hoogi. Fast-Adaptive Moment Estimation with Finance-Inspired Triple Exponential Moving Average.
15. **T. Lazebnik**. Pulling the Carpet Below the Learner's Feet: Genetic Algorithm To Learn Ensemble Machine Learning Model During Concept Drift.
16. L. Shami, **T. Lazebnik**, Got much, got nothing: Analyzing the impact of increased special interest groups' influence on utility.
17. A. Shmual, **T. Lazebnik**, O. Glickman, E. Heifetz, C. Price, Lightning-Ignited Wildfires On A Global Scale: Prediction and Climate Change Projections based on Explainable Machine Learning Models.
18. G. Martvel, L. Scott, B. Florkiewicz, A. Zamansky, I. Shimshoni, **T. Lazebnik**, AI for Feline Faces: A Computational Investigation of the Social Function of Domestic Cat Facial Signals.
19. O. Edri-Peer, **T. Lazebnik**, N. Cohen, Which People Obey the Law? A Decision Tree Model for Profiling Vigilantes.
20. **T. Lazebnik**, A. Rosenfeld, Whose LLM is it Anyway? Linguistic Comparison and LLM Attribution for GPT-3.5, GPT-4 and Bard.
21. **T. Lazebnik**, Transforming Norm-based To Graph-based Spatial Representation for Spatio-Temporal Epidemiological Models.
22. L. Schwartz, N. Matania, M. Levi, **T. Lazebnik**, S. Kushnir, N. Yosef, A. Hoogi, D. Shlomi, Machine Learning Computational Model to Predict Lung Cancer Using Electronic Medical Records.
23. B. Norton, A. Zamansky, B. Florkiewicz, **T. Lazebnik**, The Art of Chimpanzee Diplomacy: Unraveling the Secrets of Successful Negotiations Using AI.

24. A. Shmual, O. Glickman, **T. Lazebnik**, Improving Machine and Deep Learning models' Out Of Distribution Performance using Symbolic Regression.
25. A. Shmual, **T. Lazebnik**, O. Glickman, Follow the Forest Trail: Data Augmentation by Gradient Boosting Models to Enhance Symbolic Regression Performance.
26. **T. Lazebnik**, A. Friedman, Spatio-Temporal Model of Combining Chemotherapy with Senolytic Treatment in Lung Cancer.
27. **T. Lazebnik**, Evaluating Supply Chain Resilience During Pandemic Using Agent-based Simulation.
28. A. Shmual, O. Glickman, **T. Lazebnik**, Data Augmentation for Deep Learning Regression Tasks by Machine Learning Models.
29. M. Kastin, M. Glebov, H. Berkenstadt, Yaniv-Rosenfeld, A. **T. Lazebnik**, Developing Machine Learning-based Prediction Model for Postinduction Hypotension.
30. A. Shmual, O. Glickman, **T. Lazebnik**, A Comprehensive Benchmark of Machine and Deep Learning Across Diverse Tabular Datasets.
31. **T. Lazebnik**, Introducing 'Inside' Out of Distribution.
32. **T. Lazebnik**, A. Fridman, Spatio-Temporal Model of Combining ADT and Chemotherapy with Senolytic Treatment in Metastatic Prostate Cancer.
33. **T. Lazebnik**, Scientometrics metrics fail to explain recommendation letters for academic position promotion logic.
34. A. Solomon, M. Glebov, **T. Lazebnik**, Explainable Clinical Operation Recommender System Leveraging Large Language Models.
35. V. Aharonson, **T. Lazebnik**, A. Sinai, M. Nassar, I. Senderova, M. Constantinescu, L. T. Lior, I. Schlesinger, Novel objective tool to assess tremor reveals unilateral focused ultrasound improves tremor bilaterally.

Grants received

1. "Incidence and risk factors for recurrent urinary tract infection in children caused by bacilli ESBL", 15000 NIS - received 7500 NIS.
2. "Incidence and risk factors for recurrent urinary tract infection in children caused by bacilli ESBL", 20000 NIS - received 12500 NIS.
3. "Implementation of artificial intelligence methods to improve early detection of disease outbreaks, public responses, prevention and management", 15000 NIS - received 4000 NIS.

Editorial work

1. **Journal:** Cells. **Position:** Guest editor of a special issue entitled "Cell-Cell Interaction Modelling of Cancer Immunotherapy Treatments", 1.2022 - 2.2023.
2. **Journal:** Frontiers in Applied Mathematics and Statistics. **Position:** Review editor, 12.2022 - now.

Conference Talks

1. **Subject: Lazebnik, T.**, Shami, L., Got much, got nothing: Analyzing the impact of increased special interest groups' influence on utility.
   Conference: The 47th Eurasia Business and Economics Society conference, 04.2024.
2. **Subject:** Simon-Keren, L., **Lazebnik, T.**, Liberzon, A., Predictive correlations for particle motion across a stratified interface using machine learning .
   Conference: The 14th International ERCOFTAC symposium on Engineering, Turbulence, Modelling and Measurements, 09.2023.

3. **Subject: Lazebnik, T.**, Using ML models in infectious diseases prediction with economical constraints.
   Conference: AI2 - medicine in the AI Era, 05.2023.

4. **Subject: Lazebnik, T.** and Bunimovich-Mendrazitsky, S., Extended Mathematical Model for the BCG-based Treatment of Type 1 Diabetes.
   Conference: Dynamical Systems Applied To Biology And Natural Science, 02.2023.

5. **Subject: Lazebnik, T.** and Bunimovich-Mendrazitsky, S., Mathematical Model for the BCG-based Treatment of Type 1 Diabetes.
   Conference: Dynamical Systems Applied To Biology And Natural Science, 02.2022.

6. **Subject:** Shami, L. and **Lazebnik, T.**, Financing and Managing Epidemiological-Economic Crisis: The Reserve Model.
   Conference: ICEA, Public Policy Lessons conference, 11.2021.

7. **Subject: Lazebnik, T.**, Shami, L., and Bunimovich-Mendrazitsky, S., Epidemiological-Economical Pandemic Management By A Spatio-Temporal Mathematical Model.
   Conference: Dynamical Systems Applied To Biology And Natural Science, 02.2021.