

## List of Publications - Chen Hajaj - August 2025

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REFEREED  
JOURNAL  
PUBLICATIONS

1. Udi Aharon, Ran Dubin, Amit Dvir, **Chen Hajaj**. A classification-by-retrieval framework for few-shot anomaly detection to detect API injection. In *Computers & Security*. 2025
2. Or Haim Anidjar, Revital Marbel, Ran Dubin, Amit Dvir, **Chen Hajaj**. Extending Limited Datasets with GAN-Like Self-Supervision for SMS Spam Detection. In *Computers & Security*. 2024
3. Assaf Frajman, Shimon Izhakian, Ori Mekiten, Ori Hadar, Ariel Lichtenstadt, **Chen Hajaj**, Shon Schori, Moshe Heching, Dror Rosengarten and Mordechai R. Kramer. Phenotypical Characteristics of Nontuberculous Mycobacterial Infection in Patients with Bronchiectasis. In *Respiratory Research*. 2024
4. **Chen Hajaj**, Porat Aharon, Ran Dubin, and Amit Dvir. The Art of Time-Bending: Data Augmentation and Early Prediction for Efficient Traffic Classification. In *Expert Systems with Applications*. 2024
5. Anat Goldstein and **Chen Hajaj**. Measuring flight-destination similarity: A multidimensional approach. In *Expert Systems with Applications*. 2024
6. Ofek Bader, Adi Lichy, Amit Dvir, Ran Dubin, and **Chen Hajaj**. OSF-EIMTC: An Open-Source Framework for Standardized Encrypted Internet Traffic Classification. In *Computers Communications*. 2024
7. Orit Raphaeli, Liran Statlender, **Chen Hajaj**, Itai Bendavid, Anat Goldstein, Eyal Robinson, and Pierre Singer. Using Machine-Learning to Assess the Prognostic Value of Early Enteral Feeding Intolerance in Critically Ill Patients: A Retrospective Study. In *Nutrients*. 2023
8. Harel Berger, Amit Dvir, Enrico Mariconti, and **Chen Hajaj**. Breaking the structure of MaMaDroid. In *Expert Systems with Applications*. 2023
9. Ofir Joseph, Avshalom Elmalech, and **Chen hajaj**. Detecting Parallel Covert Data Transmission Channels in Video. In *Electronics*. 2023
10. Or Haim Anidjar, Yannick Estève, **Chen Hajaj**, Amit Dvir, Itshak Lapidot. Speech and Multilingual Natural Language Framework for Speaker Change Detection and Diarization. In *Expert Systems With Applications*. 2023
11. Adi Lichy, Ofek Bader, Ran Dubin, Amit Dvir, **Chen Hajaj**. When a RF Beats a CNN and GRU, Together - A Comparison of Deep Learning and Classical Machine Learning Approaches for Encrypted Malware Traffic Classification. In *Computers & Security*. 2023
12. Uzi Ben-Shalom, **Chen Hajaj**, Nitza Davidovich, Corine Berger. The Online temporary learning groups in higher education: Interactions, compensation, and maximization of achievements in an Israeli case study. In *Journal of Education Culture and Society*. 2023

13. Rotem Bar and **Chen Hajaj**. SimCSE for Encrypted Traffic Detection and Zero-Day Attack Detection. In *IEEE ACCESS*. 2022
  14. **Chen Hajaj**, Nitay Hason, and Amit Dvir. Less is More: Robust and Novel Features for Malicious Domain Detection. In *Electronics*. 2022
  15. Anat Goldstein and **Chen Hajaj**. The Hidden Conversion Funnel of Mobile vs. Desktop Consumers. In *Electronic Commerce Research and Applications (ECRA)*, 2022
  16. Corine Berger, Uzi Ben-Shalom, **Chen Hajaj**, Nitza Davidovich. Patterns of Activity in Temporary Digital Learning Groups, and Its Correlation With Academic Achievement Among University Students in an Israeli University. In *Social Issues in Israel*. 2022
  17. Harel Berger, **Chen Hajaj**, and Amit Dvir. Crystal Ball: From Innovative Attacks to Attack Effectiveness Classifier. *IEEE ACCESS*. 2021
  18. Ron Hirschprung and **Chen Hajaj**. Prediction Model for the Spread of the COVID-19 Outbreak in the Global Environment. *Heliyon*. 2021
  19. Or Anidjar, Itshak Lapidot, **Chen Hajaj**, Amit Dvir and Issachar Gilad. Hybrid Speech and Text Analysis Methods for Speaker Change Detection. In *IEEE/ACM Transactions on Audio Speech and Language Processing*. 2021
  20. **Chen Hajaj**, Zlatko Joveski, Sixie Yu, Yevgeniy Vorobeychik. Robust Coordination in Adversarial Social Networks: From Human Behavior to Agent-Based Modeling. in *Network Science*, 2021.
  21. Amit Dvir, Angelos K. Marnierides, Ran Dubin, Nehor Golan, and **Chen Hajaj**. Encrypted Video Traffic Clustering Demystified. In *Computers & Security*, 96 ,2020.
  22. **Chen Hajaj** and David Sarne. Selective Opportunity Disclosure at the Service of Strategic Information Platforms. In *Autonomous Agents and Multi-Agent Systems (JAAMAS)*, 31(5):1133–1164, 2017.
  23. **Chen Hajaj**, Noam Hazon, and David Sarne. Enhancing Comparison Shopping Agents through Ordering and Gradual Information Disclosure. In *Autonomous Agents and Multi-Agent Systems (JAAMAS)*, 31(3):696–714, 2017.
  24. **Chen Hajaj**, Noam Hazon, and David Sarne. Improving Comparison Shopping Agents’ Competence through Selective Price Disclosure. In *Electronic Commerce Research, and Applications (ECRA)*, 14(6) 563–581, 2015.
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1. Revital Marbel, Yanir Cohen, Ran Dubin, Amit Dvir and **Chen Hajaj**. Cloudy with a Chance of Anomalies: Dynamic Graph Neural Network for Early Detection of Cloud Services’ User Anomalies. In *the 34th International Conference on Computer Communications and Networks (ICCCN)*. 2025

2. Simona Lisker, Ayelet Botman, **Chen Hajaj**, Ran Dubin, Amit Dvir. Optimized File Type Detection and One-Shot Retrieval. In *the IEEE International Conference on Communications (ICC)*. 2025
3. Zohar Simhon, Matan Weiss, **Chen Hajaj**, Revital Marbel, Ran Dubin, Amit Dvir. A New D-MAGIC: Dynamic Model for Cybersecurity Attack Detection Using GNNs into Clustering. In *Proceedings of the IEEE International Conference on Communications (ICC)*. 2025
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9. Orit Raphaeli, Liran Statlander, **Chen Hajaj**, Itai Ben David, and Pierre Singer. Protein Intake and Clinical Outcomes of Critically Ill Patients. In *the 44th European Congress for Clinical Nutrition and Metabolism (ESPEN)*. 2022
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11. Ofek Bader, Adi Lichy, **Chen Hajaj**, Ran Dubin, and Amit Dvir. MalDIST: From Encrypted Traffic Classification to Malware Traffic Detection and Classification. In *the Proceedings of IEEE Consumer Communications & Networking Conference*. 2022
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16. Orit Raphaeli, **Chen Hajaj**, Itai Ben David, Anat Goldstein, Elad Chen, Pierre Singer. Feeding Intolerance as a Predictor of Clinical Outcomes in Critically Ill Patients: A Machine Learning Approach. In *the 43rd European Society for Clinical Nutrition and Metabolism (ESPEN)*. 2021
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18. Vitali Demianiuk, **Chen Hajaj**, and Kiril Kogan. PCL: Packet Classification with Limited Knowledge. *INFOCOM*. 2021
19. Anat Goldstein and **Chen Hajaj**. The Different Path to Purchase of Mobile and Desktop Consumers: Analyzing Consumers' Progress in the Conversion Funnel Using Hidden Markov Models. In *Statistical Conference in E-Commerce Research (SCECR)*. 2020
20. Nitay Hason, Amit Dvir, and **Chen Hajaj**. Robust Malicious URL Detection. In the *4th International Symposium on Cyber Security Cryptology and Machine Learning (CSCML)*. 2020
21. Liang Tong, Bo Li, **Chen Hajaj**, Chaowei Xiao, Ning Zhang, Yevgeniy Vorobeychik. Improving Robustness of ML Classifiers against Realizable, Evasion Attacks Using Conserved Feature. In the *28th USENIX Security Symposium*. 2019
22. Yevgeniy Vorobeychik, Myrna Wooders, Greg Leo, Matthew Chambers, **Chen Hajaj**, Jian Lou, and Martin Van der Linden. Non-Cooperative Team Formation and a Team Formation Mechanism. In the *11th annual conference of the Israeli chapter of the game theory society*. 2019
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26. Cheng Ye, Joseph Coco, Anna Epishova, **Chen Hajaj**, Henry Bogardus, Laurie Novak, Joshua Denny, Yevgeniy Vorobeychik, Thomas Lasko, Bradley Malin and Daniel Fabbri. A Crowdsourcing Framework for Medical Data Sets. In *American Medical Informatics Association (AMIA)*. 2018
27. Avshalom Elmalech, David Sarne, Esther David, and **Chen Hajaj**. Enhancing Crowdworkers' Vigilance. In *International Joint Conference on Artificial Intelligence (IJCAI)*. 2017
28. Avshalom Elmalech, David Sarne, Esther David, and **Chen Hajaj**. Extending Workers' Attention Span Through Dummy Sub-Goals. In *AAAI Conference on Human Computation and Crowdsourcing (HCOMP)*. 2016. **Best paper finalist.**
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30. Tal Darom, Yaniv Gur, **Chen Hajaj** and Yosi Keller. Automatic Anatomical Shape Correspondence and Alignment Using Mesh Features. In *International Symposium on Biomedical Imaging (ISBI)*. 2015
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32. **Chen Hajaj**, Noam Hazon, and David Sarne. Ordering Effects and Belief Adjustment in the Use of Comparison Shopping Agents. In *AAAI Conference on Artificial Intelligence (AAAI)*. 2014
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3. Harel Berger, **Chen Hajaj**, and Amit Dvir. Evasion is not enough: A case study of Android malware. In the *4th International Symposium on Cyber Security Cryptology and Machine Learning (CSCML)*. 2020
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5. **Chen Hajaj**, Sixie Yu, Zlatko Joveski and Yevgeniy Vorobeychik. Adversarial Coordination on Social Networks. In *The AAMAS-IJCAI workshop on agents and incentives in artificial intelligence(AI<sup>3</sup>)*. 2018
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7. Jian Lou, Martin Van der Linden, Pranav Batra, **Chen Hajaj**, Greg Leo, Yevgeniy Vorobeychik and Myrna Wooders. Rotating Proposer Mechanisms for Team Formation. In *Workshop on Cooperative Games in Multiagent Systems (CoopMAS)*.2017. **Most visionary paper.**
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#### BOOK CHAPTERS

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