Dmitry (Dima) Ivanov

PhD (exp. 2024)

Technion
Haifa, Israel

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Education

Postdoctoral Student, October 2022 - September 2024
Data and Decision Sciences, Technion, Haifa, Israel
Doctoral Student, November 2018 - November 2021
AI and ML, HSE University, St. Petersburg, Russia
MSc, September 2016 - June 2018
DS and ML, HSE University, St. Petersburg, Russia
BSc, September 2012 - June 2016
Biophysics, Polytechnic University, St. Petersburg, Russia

Work Experience

Research Fellow, July 2019 - April 2022
Agent Systems and RL lab, JetBrains Research, St. Petersburg, Russia
Research Fellow, April 2017 - September 2022
Game Theory and Decision Making lab, HSE, St. Petersburg, Russia
Data Analyst, August 2017 - January 2018
404 Group, St. Petersburg, Russia

Teaching Experience

Lectures and Seminars, 2021
– Introduction to ML for 4th year BSc economists, HSE, St. Petersburg, Russia
– Introduction to Deep RL for high school students, summer school, Pushkin, Russia

Achievements

– 1st place RL track, AIcrowd Flatland, NeurIPS 2020, team JBR_HSE
– Winner of Yandex ML Prize for young researchers, 2020

Languages and Skills

Russian (native), English (fluent)
LaTeX, Python 3

Research Interests

Deep Learning, Reinforcement Learning, Multi-Agent Reinforcement Learning;
Automated Mechanism Design: Auctions, Contracts

Selected Papers

Principal-Agent Reinforcement Learning
Ivanov D, Dütting P, Talgam-Cohen I, Wang T, Parkes D; under review at ICML 2024

Personalized Reinforcement Learning with a Budget of Policies
Ivanov D, Ben-Porat O; AAAI 2024, arXiv:2401.06514

Deep Contract Design via Discontinuous Networks
Wang T, Dütting P, Ivanov D, Talgam-Cohen I, Parkes D; NeurIPS 2023, arXiv:2307.02318

Mediated Multi-Agent Reinforcement Learning
Ivanov D, Zisman I, Chernyshev K; AAMAS 2023, arXiv:2306.08419

Optimal-er Auctions through Attention
Ivanov D, Safiulin I, Filippov I, Balabaeva K; NeurIPS 2022, arXiv:2202.13110

Identifying Bid Leakage In Procurement Auctions: ML Approach
Ivanov D, Nesterov A; EC'19, arXiv:1903.00261