Dmitry (Dima) Ivanov

PhD (exp. 2024)

Technion, Haifa, Israel

Personal website

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Work Experience

Postdoctoral Researcher, Oct 2022 - Sep 2024
Data and Decision Sciences, Technion, Haifa, Israel
Research Fellow, Jul 2019 - Apr 2022
Agent Systems and RL lab, JetBrains Research, St. Petersburg, Russia
Research Fellow, Apr 2017 - Sep 2022
Game Theory and Decision Making lab, HSE, St. Petersburg, Russia

Education

Doctoral Student, Nov 2018 - Nov 2021
AI and ML, HSE University, St. Petersburg, Russia
MSc, Sep 2016 - Jun 2018
DS and ML, HSE University, St. Petersburg, Russia
BSc, Sep 2012 - Jun 2016
Biophysics, Polytechnic University, St. Petersburg, Russia

Achievements

– 1st place at Flatland MARL Competition, NeurIPS 2020, team JBR_HSE
– Winner of Yandex ML Prize for young researchers, 2020

Teaching Experience

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

Languages and Skills

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

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