SARVAR ABDULLAEV

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PROFILE

- I would like to use game theoretic principles for analysing evolutionary dynamics of biological ecosystems, and apply these findings for solving the problems of climate change and agriculture.
- So far, I have designed a double auction for trading European options and developed pest outbreak prediction models using climate data and moth images from pheromone traps.

EDUCATION

King's College London (UK), PhD in Computer Science *2011-2016*
Dongguk University (S.Korea), MSc in Computer Science (GPA - 4.38/4.5) *2007-2009*
University of Westminster (UK), BSc in Business Computing (2:1) *2003-2006*

EXPERIENCE

Inha University in Tashkent *2016-Present*
Assistant Professor

· Taught courses such as Intro to Computer Science, Game Theory, Creative Engineering Design, Databases, Java Programming. Overall course evaluation result is above 90%.

King's College London *2014-2015*
Teaching Assistant

· Conducted tutorials on Intro to Artificial Intelligence, Data Structure and Practical Programming.

Westminster International University in Tashkent *2009-2011*
Lecturer

· Taught courses such Software Engineering, Web Programming and Business Information Systems.

cBizSoft, Inc *2008-2023*
Software Developer (Remote Work)

· Developed Exelare ATS from scratch using .NET and Angular technologies. It pulls resumes and jobs from Monster, CareerBuilder, Indeed, Dice, Fieldglass and matches them using NLP.

SELECTED PROJECTS

Spatial-Temporal Interpolation of Air Pollution in Tashkent Metropolitan Area

· Designed and deployed 10 air pollution stations across the city; analysed the impact of urban traffic, wind speed and other climate data on pollutant concentrations such PM1.0, PM2.5 and PM10.0.

Pest Outbreak Prediction using Climate Data and Smart Pheromone Traps

· Designed and deployed more than 30 agro-weather stations and 12 smart pheromone traps across Ferghana valley; implemented moth counting model and used its data to determine biofix date for degree-day computation of moth's development stage. Funded by UN ACCRF Project.

Model-based Control of Natural Gas Usage in Greenhouses

· Designed a sensor network for monitoring the use of natural gas while heating greenhouses; analysed the impact of solar radiation, outdoor/indoor temperature and humidity, wind speed, ventilation to the heating efficiency; generated operational recommendations.

SELECTED PUBLICATIONS

· Pricing Options with Portfolio-holding Trading Agents in Direct Double Auction, *In Proc. of 22nd European Conference on Artificial Intelligence*, Hague, Netherlands, September 2016.

· Emergence of Option Prices in Markets Populated by Portfolio-Holders, *In Proc. of 2nd European Workshop on Chance Discovery and Data Synthesis*, Hague, Netherlands, September 2016

· Direct Exchange Mechanisms for Option Pricing, *In Proc. of 12th European Conference on Multi-Agent Systems*, Springer LNAI, Prague, Czech Republic, December 2014

· An Optimization of CDN using Efficient Load Distribution and RADS Caching Algorithm, *Journal of Universal Computer Science*, Vol. 14, No. 14, pp. 2329-2342, 2008

CONSULTANCY

New Uzbekistan University *2022*

· Designed the curriculum of Computer Science program, participated in faculty recruitment, arranged 3D printing and VR/AR labs at the university campus. Taught *Nand2Tetris* course.

Open Data Challenge Hackathon *2016-2020*

· Facilitated the organization of annual event aimed at promoting the use of open data among developers; conducted workshops and tutorials on ML; mentored participants in their projects.

AWARDS

IsDB Scholarship for Sustainable Agriculture *2022*
Best Paper Award in BigDAS *2017*
Winner of TechCrunch Disrupt Hackathon (London, UK) *2014*
IsDB Merit Scholarship for High Technology *2011*
Global Korea Scholarship *2007*
3rd place in ICPC in Uzbekistan *2005*

SKILLS

Programming	C#, Angular, Python, Laravel/PHP, Java, SQL, Flux, Arduino/C++ NetLogo, R, MATLAB, AMPL, LaTeX
Mathematics	Calculus, Probability, Statistics, Linear Algebra, Discrete Math, Integer Linear Programming, Differential Equations, Game Theory

CERTIFICATES

Deep Reinforcement Learning, EEML Summer School, Warsaw *2020*
Bayesian Machine Learning, DeepBayes Summer School, Moscow *2018*
Entrepreneurship for Scientists, Enterprisers Summer School, Cambridge *2012*