



CHAROS KHIDIROVA

Associate Professor

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EDUCATION

Ph.D.: Technical Science (05.01.04 - Mathematics and Software of Computer systems, and Computer Networks)
Tashkent University of Information Technologies, Uzbekistan 2017 — 2019

Master of Science: Mathematics and Software of Computer systems and Computer Networks
Tashkent University of Information Technologies, Uzbekistan 2004 — 2006

Bachelor of Science: Information Technology
Tashkent State Technical University, Uzbekistan 2000 — 2004

WORK EXPERIENCE

Tashkent University of Information Technologies, Tashkent, Uzbekistan

Associate Professor at the Department of Software of Information Technologies, 2020 — 2024

Associate Professor at the Department of Computer Systems, 2024 — Current

Works closely with university to develop and implement special subjects' curriculum for improved learning and student performance. Delivers higher-level undergraduate and graduate courses via classroom, online and hybrid methodologies to satisfy course curricula and meet student needs. Supervises junior lecturers' course development and recommended refinements to enhance student learning. At the same time head of the scientific laboratory "Data Mining". At the laboratory conducts research and projects on the development of models, algorithms and software for decision-making, diagnostic and forecasting systems based on artificial intelligence methods. The main goal is to develop the intelligence software systems necessary for our society today and to support young researchers in this field, especially scientific women, to help them increase their scientific potential and experience. **Subjects:** Data Mining, Introduction to Software Engineering, Software Project Management, Design and analysis of algorithms, Data structure and algorithms

Karshi branch of the Tashkent University of Information Technologies, Karshi, Uzbekistan

Head of the Department Software Engineering, 2015 — 2016

Worked at the department to train advanced software development specialists, to increase the teaching, researching and scientific capacity of the department to enhance the activities of the field of Software Engineering. Organized and led a team of volunteers "Young Programmers Club" to teach programming to the youth of Kashkadarya region, which any young people aged 7 – 17 were able to join and attend the Club for free.

Karshi branch of the Tashkent University of Information Technologies, Karshi, Uzbekistan

Senior Lecturer at the Department of Information Technology, 2006 — 2015

Used variety of learning modalities and support materials to facilitate learning process and accentuate presentations, including visual, aural and social learning modalities. Authored well-regarded Object-oriented development and Web programming textbooks to present credible information to undergraduate and graduate students.

AWARDS

Awarded from the Ministry for the Development of Information Technologies and Communications with the title of "**Master of his profession**" on August 2012

Resived **Scholarship fund from Sumitomo Corporation** (Japan) with the purpose studying diligently and be of service to the sociate future in 2001-2003

TRAINING AND INTERNSHIP

Kookmin University, Seoul, Republic of Korea, December 2023

Skills: Business IT, Living Lab

Tashkent University of Information Technologies, Uzbekistan, November 2023

Skills: Information systems and technologies

University of Wyoming, Laramie, United States, Spring semester 2023

Skills: Machine Learning, Practical Machine Learning, Neuro and Fuzzy Systems, Data Science, Curriculum development

Coursera, on-line 2023

Skills: Deep Learning and Artificial Intelligence

Seoul National University of Science and Technology, Seoul, Republic of Korea, Spring semester 2017

Skills: Software Engineering, Data structures and algorithms, Object oriented programming

Tashkent University of Information Technologies, Uzbekistan, June 2020

Skills: SoftwareEngineering, Information technologies

PROJECTS AND GRANTS

Faculty Enrichment Programm fellowship, Wyoming, USA, Spring semester 2023

Project Manager – Intelligent system for early detection and prediction of the risk of cardiovascular diseases, 2021-2023

Project member – Intelligent systems based on the logical-heuristic class of algorithms for processing, recognizing and predicting complex structured information in a fuzzy environment, 2019-2021

Project member – Development System for the analysis and classification of text information in the Uzbek language, 2019-2020

Grant to Conference – «Perspektywy Women in Tech Summit - 2022» in Poland, June 2022

PUBLICATIONS

Published more than 60 papers in scientific journals and conferences. Recent papers included in the Scopus and Web of Science DB:

- **Intuitionistic Fuzzy Logic Application in Software Algorithms.** Lecture Notes in Networks and Systems. Vol. 718 (WCIS-2022). Springer - 2024. -P.88-95.
- **Limited different schemes for mutual diffusion problems.** E3S Web of Conference CONMECHYDRO-2023. Vol. 401, 05057 (2023).
- **Intelligent System of Diagnosing and Predicting Cardiovascular Diseases.** International Conference on Information Science and Communications Technologies. 2022.
- **Neuro-fuzzy algorithm for clustering multidimensional objects in conditions of incomplete data.** Journal of Physics: Conference Series (MSTU 2021). Vol. 1901. IOP Publishing: Omsk, Russia, 2021.
- **Machine learning methods as a tool for diagnostic and prognostic research in cardiovascular disease.** International Conference on Information Science and Communications Technologies: Applications, Trends and Opportunities. 2021.
- **Comparative Analysis of Artificial Neural Network Training Algorithms.** International Conference on Information Science and Communications Technologies. 2020.
- **Methods and algorithms of determination of complexity of test questions for formation a database system of the adaptive test-control of knowledge.** International Conference on Information Science and Communications Technologies. 2017.
- **Application of algorithms for calculating estimates in the problems of adaptive assessment.** European Science Review. Vol. 9-10. Austria, 2018.
- **Algorithms of the Parametric Adaptation of Models of Complex Systems by Discrete Observations.** The Journal of Multimedia Information System. Vol. 4. South Korea, 2017.
- **Algorithms for continuous and discrete models of adaptation under conditions of incomplete information.** The 4th International Conference on "Big Data Applications and Services". BIGDAS-2017.
- **Building systems of quality analysis adaptive test control of knowledge.** International scientific journal "Young scientist". Kazan: From "Young Scientist", No. 19, Part I, Russia, 2016.
- **Elaboration of model and algorithms of the virtual control of knowledge in educational process.** The 5th International Conference on «Application of Information and Communication Technologies – AICT 2011». Azerbaijan, Baku, 2011.