



Ainagulova Aliya S

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SCIENTIFIC QUALIFICATION

Academic degree

2010: Candidate of Technical Sciences, 05.13.01 - Systems analysis, control and information processing (by industry)

Scientific direction: Software engineering, artificial intelligence, blockchain technologies, distributed ledger systems, and data analysis

RESEARCH WORK

Participation in research projects:

2012-2014: executor of a scientific project:

1. «Development of a theoretical basis for control systems with high robust stability potential and control of stabilization and orientation processes of a spacecraft»

SCIENTIFIC PUBLICATIONS

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Author of more than 50 scientific and methodological works. The most important:

- 1) Effectiveness of the use of algorithms and methods of artificial technologies for sign language recognition for people with disabilities Eastern-European Journal of Enterprise Technologies Volume 4, Issue 2-118, 2022. P.25-31 DOI: 10.15587/1729-4061.2022.262509
- 2) Implementation of machine learning models to determine the appropriate model for protein function prediction Eastern-European Journal of Enterprise Technologies Volume 5, Issue 4-119, 2022. P.42-49 DOI: 10.15587/1729-4061.2022.263270
- 3) The effectiveness of methods and algorithms for detecting and isolating factors that negatively affect the growth of crops International Journal of Electrical and Computer Engineering (IJECE) Vol. 13, No. 2, April 2023, pp. 1669~1679 ISSN: 2088-8708, DOI: 10.11591/ijece.v13i2.pp1669-1679
- 4) A blockchain model for agricultural product tracking that supports federated learning // «NAS RK» RPA News. Physics and Mathematics Series. – Almaty, 2025. - №1(353). – P. 151-167.

EDUCATIONAL AND METHODOLOGICAL WORK

Tutorials:

1. *Ainagulova A.S., Aldanov Y.S., Bakytzhan A.B., Inyutin S.P. Cryptographic methods of information protection (Part 1): Tutorial. – Nur-Sultan: «Turan-Astana» university, 2019. – 117 c. - ISBN 978-601-7871-93-2*
2. *Ainagulova A.S., Dzhaparova G.A., Bakytzhan A.B., Inyutin S.P. Managing IT projects using Microsoft Project: Tutorial. – Nur-Sultan: «Turan-Astana» university, 2019. – 116 c. - ISBN 978-601-7871-92-5*

PROFESSIONAL DEVELOPMENT

1. *«Introduction to modern web technologies», online course NOU INTUIT, Moscow, Russia, 2020.*
2. *«HTML 5. Basics of Client-Side Development», online course NOU INTUIT, Moscow, Russia, 2020.*
- *«Inclusive education in higher education institutions», IE «New Standart», Astana, 2025.*

LANGUAGE SKILLS

Kazakh – native, Russian – fluent, English – Intermediate
