Beldeubayeva Zhanar
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SCIENTIFIC QUALIFICATION

Academic degree

2019 y.: PhD 6D070300-Information system (by industry)

Research area: Mathematical modeling of processes and phenomena of various natures, design of information systems, artificial intelligence technologies.

SCIENTIFIC SCHOOL

Those who defended themselves under his leadership

Doctoral students : Rzayev B. (2024). Master's students **:** Sadykov T., (2022), Zhumanov S. , Mansur Zh., Shekerov N. (2023), Olzhayev A. (2025)

SCIENTIFIC DIRECTION

Participation in the implementation of SRW within the framework of government procurement :

Work on scientific projects under budget programs of the MES of RK :

1.«Development of an information and analytical system for monitoring reserves and quality of groundwater in the Republic of Kazakhstan», D.Serikbayev EKSTU, Ust-Kamenogorsk, (2014-2017y.).

2.«Development of software for the identification of tandem repeats in whole genome sequencing» S.Seifullin KATRU, (2023 – 2025 y.).

RESULTS OF SCIENTIFIC ACTIVITY

Scientific results obtained

1. An information and analytical system for monitoring the reserves and quality of groundwater in the Republic of Kazakhstan has been developed (implemented at the Center for Environmental Safety LLC)

SCIENTIFIC ACHIEVEMENTS

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Publications in Web of Science, Scopus

1. Numerical solution of an inverse problem of determining the parameters of a source of groundwater pollution. (Indexed by Scopus. Eurasian Journal of Mathematical and Computer Applications , ISSN 2306–6172 Volume 5, Issue 1)- 2017. Percentile =33: https://www.scopus.com/sourceid/21100809811
2. Effectiveness of the use of algorithms and methods of artificial technologies for sign language recognition for people with disabilities (Indexed by Scopus. Eastern-European Journal of Enterprise Technologiesthis, 2022, 4(2-118), pp. 25–31). Percentile =48: https://www.scopus.com/sourceid/21100450083\
3. Architecture, Implementation and Experimental Study of the Health Passport Intellectualized Software Package for the Diagnosis of Clinical and Hematological Syndromes. Engineered Science, 2025, 38, 1836, 24 October 2025 (Q1) Scopus Citescore2024=12,5 88 percentile (Computer Science)

https://www.espublisher.com/journals/articlehtml/engineered-science/10.30919-es1836

4. Recognition of Soil Profile Stratification Using Machine Learning and Remote Sensing Methods. IEEE Access, 22 October 2025, 13 (Q1), pp. 193667 – 193682 Scopus

https://www.researchgate.net/publication/397404703_Recognition_of_soil_profile_stratification_using_machine_learning_and_remote_sensing_methods

Publications in SHEQAC

1. Planning and time management of educational activities in modern applications // Bulletin of Toraigyrov University. Energy series. ISSN 2710-3420. № 1. 2023. С. 182-193
   https://vestnik-energy.tou.edu.kz/storage/journals/168.pdf
2. Identification of malicious data in the information network by using the stacking method // Bulletin of the NAS of the RK. Physics and Mathematics Series, №3. 30.09.2023 , С. 147–160
   https://journals.nauka-nanrk.kz/physics-mathematics/article/view/5687
3. Identifying plant diseases using deep learning methods // Bulletin of the NAS of the RK. Physics and Mathematics Series, №4. 30.12.2023 , с. 184–197
   https://journals.nauka-nanrk.kz/physics-mathematics/article/view/5938
4. Mlva as a method of genotyping and algorithms for its implementation using genome-wide data// Bulletin of the NAS of the RK. Physics and Mathematics Series, №4. 30.12.2023 , с. 300–312
   https://journals.nauka-nanrk.kz/physics-mathematics/article/view/5883
5. Using deep learning methods to analyze retinal structures in ophthalmology // Bulletin of the NAS of the RK. Physics and Mathematics Series, №1. 20.03.2024 , с. 152–165
   https://journals.nauka-nanrk.kz/physics-mathematics/article/view/6213
6. Information technology in corporate knowledge management // Bulletin of the NAS of the RK. Physics and Mathematics Series, №1, 20.03.2024 , с. 177–191
   https://journals.nauka-nanrk.kz/physics-mathematics/article/view/6226

7. Search for Informative features based on the principal component method in malicious traffic identification and assessment tasks// KazATK Bulletin №3(132), 2024 г. https://vestnik.alt.edu.kz/index.php/journal/article/view/1767

Monograph :

Development of an information and analytical system for monitoring groundwater reserves and quality, Ust-Kamenogorsk: EKSTU, 2020 y.

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