



**Zhukabayeva Tamara
Kokenovna**

PhD, acting professor

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- Laureate of the State Scientific Scholarship for Talented Young Scientists - 2015
- The best university teacher – 2020.
- Bolashak International Scholarship in 2021, University of Lincoln - "Best Conference Papers" International Conference on Electrical Engineering, Computer Science and Informatics, IEEE, 2020

Professional experiences:

01.09.2020 - Associate Professor of the Department of IP, L.N.Gumilyov ENU
2018 – 2020 Head of the lab. Laboratory of Information Security Systems, Institute of Information and Computing Technologies (IIVT) MES
2013 - 2019 associate Professor of Department Software engineering and, ENU.L.N.Gumilev
2003 - 2009 Senior lecturer, lecturer, Assistant Professor, computer engineering, M. Auezov SKSU

Academic degree and rank, school of sciences:

Doctor of Philosophy (PhD) in the specialty 6D075100– "Computer Science, Computer engineering and management"
Associate Professor 05.13.00- "Computer Science, Computer Engineering and Management"

Scientific interests: Artificial intelligence, information security, computer vision, IOT

Education:

- 2009 - 2012 PhD, 6D075100 – "Computer science, computer engineering and management", defended her thesis on December 26, 2012 at KazNTU named after K.I. Satpayev
- 2004 – 2006 Master's degree "6N0602 Computer Science" Master of Computer Science. Diploma with honors. SKSU named after. M Auezova JOOC-M No.0011506
- 1999-2003 "0105 Informatics". Specialist in the field of computer science.AZHB No. 0003096. Diploma with honors. SKSU named after. M Auezova

Scientific grants:

Acted as an executor on the subject of research in the following projects:

- 2022-2024. Research of methods of confidentiality preservation in the process of Internet of Things interaction
- 2018-2020. "Development of software and hardware for cryptographic protection of information during its transmission and storage in infocommunication systems and general purpose networks",
- 2018-2020. "Development of a new information system and database for optimizing monitoring of atmospheric air pollution by heavy metals"
- 2018-2020. "Development intelligent information complex and mathematical models for modern electric power systems".
- 2018-2020 "Development of algorithms and embedded software for determining the geoelectric section for geoinformation technology – GPR",
- 2015.2018 - "Development and experimental study of algorithms for adaptive control of robotic mobile complexes"
- 2013-2015 "Development of methodology and algorithms for decentralized optimal control of complex technological systems", under Contract No. 396 dated 04.02.2013
- 2013-2015 "Algorithms and technical means of geolocation systems", under contract No. 773 dated 01.10.2013
- Executor of a scientific project within the framework of public procurement on the topic - "Analysis of international experience in the use of information and communication technologies in electoral processes, taking into account possible application in Kazakhstan", contract No. 31 dated June 12, 2018

	<p>Courses : Analysis, testing and debugging of programs Cryptography Reliability and security in Information System Data mining Computer vision technologies Digital image processing Introduction to Artificial Intelligence</p>
<p>Research traineeship:2012-2013 Putra Malaysia University (Malaysia, Selangor, Putra Malaysia University). - Lincoln University,UK 1.05.2022-30.10.2022</p> <p>Hirsch index according to the Web of Science or Scopus information base: - 4</p> <p>Languages: Kazakh Russian English</p>	<p>Publications (selected):</p> <ol style="list-style-type: none"> 1. Nurlan, Z., Zhukabayeva, T., Othman, M.EZ-SEP: Extended Z-SEP routing protocol with hierarchical clustering approach for wireless heterogeneous sensor network/ Sensors (Switzerland), 2021, 21(4), ctp. 1–19, 1021, DOI:10.3390/s21041021, [WoS Emerging Sources Citation Index,SCOPUS Q1, CiteScore : 91] 2. Nurlan, Z., Zhukabayeva T.,Othman, M., Adamova, A. Resource Allocation Approach for Optimal Routing in IoT Wireless Mesh Networks /IEEE Access, 2021, 9, ctp. 153926–153942, DOI: 10.1109/ACCESS.2021.3123903,[WoS Emerging Sources Citation Index,SCOPUS Q2, CiteScore :89]1 3. Zhukabayeva, T.K., Mardenov, E.M., Abdildaeva, A.A./Sybil Attack Detection in Wireless Sensor Networks /14th IEEE International Conference on Application of Information and Communication Technologies, AICT 2020 - Proceedings, 2020, 9368790,SCOPUS 4. Nurlan Z., Zhukabayeva T., Othman M. IoT hardware-defined routing protocol for dynamic self-organizing wireless mesh networks //2020 IEEE 10th International Conference on Consumer Electronics (ICCE-Berlin). – IEEE, 2020. – C. 1-4. DOI: 10.1109/n50680.2020.9352191,[SCOPUS] 5. Nurlan, Z., Zhukabayeva, T., Othman, M., Adamova, A., & Zhakiyev, N. (2021). Wireless Sensor Network as a Mesh: Vision and Challenges. IEEE Access, 10,46-67.7.Doi:10.1109/ACCESS.2021.3137341.,[WoS Emerging Sources Citation Index,SCOPUS Q2, CiteScore : 89] 6. Nurlan Z., Zhukabayeva T., Othman M. Mesh network dynamic routing protocols //2019 IEEE 9th International Conference on System Engineering and Technology (ICSET). – IEEE, 2019. – C. 364-369. DOI: 10.1109/ICSEngT.2019.8906314 [SCOPUS] 7. Mavlankulov, G., Othman, M., Turaev, S., Selamat, M. H., Zhumabayeva, L., & Zhukabayeva, T. (2018). Concurrently controlled grammars. Kybernetika, 54(4), 48-764.[SCOPUS Q3, CiteScore :35] 8. G. Khaleel, Sh. Turaev, I. Alshaikhli, T. Zhukabayeva, M. Izzuddin, M. Tamrin. A Symmetric Cryptosystem Based on Nondeterministic Finite Automata. Journal of Theoretical and Applied Information Technology 95(10), 2017, pp. 1489-1498. WoS Emerging Sources Citation Index, SCOPUS, etc. 9. Sh. Turaev, S. Ashaari, A. Okhunov, M.I. Mohd

	<p>Tamrin, <u>T. Zhukabayeva</u>. Multiset Controlled Grammars. Journal of Theoretical and Applied Information Technology, 2017. WoS Emerging Sources Citation Index, SCOPUS, etc</p> <p>10. Sh. Turaev, G. Khaleel, <u>T. Zhukabayeva</u>. A Novel Stream Cipher Based on Nondeterministic Finite Automata. Information Technologies in Science, Management, Social Sphere and Medicine (ITSMSSM 2016), 23-26 May, 2016, Tomsk, Russia, Atlantis Press, 2016, pp. 110-191.</p> <p>11. <u>Zhukabayeva, T.</u>; Ordabay, S.; Ven-Tsen, K. Research of cryptosystems resistance on cascade codes to nonalgebraic decoding attacks. Applied Mathematics and Information Sciences, 2012.</p> <p>12. <u>Zhukabayeva, T.</u>, Oralbekova, Z., Zhartybayeva, M., Zhumadillayeva, A., & Adamova, A. (2015, August). Prospects of Development of Technologies in the Field of Robotics and the Stages of Design of Mobile Robotic Complex. In 2015 5th International Conference on ITConvergence and Security (ICITCS) (pp. 1-4). IEEE. DOI:10.1109/ICITCS.2015.7293010, [SCOPUS]</p> <p>13. Ven-Tsen, K., <u>Zhukabayeva, T.</u> (2016). (2016). Decentralized Control Of Complex Technological Systems. Applied Mathematics & Information Sciences, 10(1), 377. DOI:10.18576/amis/100140, [SCOPUSQ2, SJR: 0.55]</p> <p>14. Adamova, A., <u>Zhukabayeva, T.</u>, Zhumabayeva, L., Mukanova, Z., & Ven-Tsen, K. (2018, July). Design and Development of a Mobile Robotic Complex. In 2018 International Conference on Recent Innovations in Electrical, Electronics & Communication Engineering (ICRIEECE) (pp. 1017-1020). IEEE. DOI:10.18576/amis/100140 [SCOPUS]</p> <p>15. Zhartybayeva, M., <u>Zhukabayeva, T.</u>, & Zhumadillayeva, A. (2017). Control System of Mobile Robotic Complex Based on Mini Tractor "Belarus 132H". In Emerging Trends in Electrical, Communications and Information Technologies (pp. 123-131). Springer, Singapore. DOI: 10.1007/978-981-10-1540-3_13, [SCOPUS].</p> <p>16. Ashaari, S., Turaev, S., Tamrin, M. I. M., Okhunov, A., <u>Zhukabayeva, T.</u> (2017). Multiset controlled grammars: A normal form and closure properties. Indonesian Journal of Electrical Engineering and Computer Science, 8(1), 36-42. [SCOPUS Q3, SJR: 0.21].</p> <p>Advanced training in the last 5 years:</p> <ol style="list-style-type: none"> 1. Educational Management. Lincoln University, UK 1.05.2022-30.10.2022 2. "Java Programming: Solving Problems with Software" Duke University (82 hours) 2020 3. IT competencies and methods of online learning. Astana, Kazakhstan (17.01.2023-01.02.2023) L.N. Gumilyov ENU. 4. CCNA v7: Introduction to Networks (CCNA v7: Introduction to Network Technologies). 09/02/2023. Kazakh Academy of Infocommunications. Kazakhstan. 5. Methods of student-oriented education at the University (there is a certificate of advanced training); Moscow, Russia
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	(20.11.2020-15.12.2020)
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