**Shaikhanova Aigul Kairulayevna**

**1 Education, academic and academic degree, professional qualifications, disciplines taught, time and period of work in this organization (for the last 5 years)**

Higher education, specialty "Automation of the Chamber of Commerce and Industry"; "Computer engineering and software, PhD in the specialty 6D070400 "Computer engineering and software" KazUTB, August 2021 – present.time

**2 Academic experience: previous jobs in educational institutions, disciplines taught, etc., full-time or part-time.**

March 2021. – June 2021.

NAO "University named after Shakarima G. Semey": Dean of the Faculty of Technology, ass.Professor of the Department of Automation and Information Technology. Disciplines "Design of automated systems", "Fundamentals of information security", "Fundamentals of scientific research". Full employment

September 2016- March 2021

Semipalatinsk State University named after Shakarima. Dean of the Faculty of Engineering and Technology, Acting Associate Professor. Disciplines "Design of automated systems", "Fundamentals of information security", "Fundamentals of scientific research". Full employment

2006-2012

Semipalatinsk State University named after Shakarima: Senior lecturer of the Department of Automation and Computer Engineering. Discipline ""Design of automated systems", "Fundamentals of information security", "Interfaces of computer systems", "Software development technology". Full employment

**3 Non-academic experience: company or legal entity, name, brief description of the position (full-time, part-time work).**

September 1998 – August 2006

Semipalatinsk Polytechnic College, Computer science Teacher.

**4 Certificates/certificates of professional development indicating the date or professional registration (according to the profile of educational programs and disciplines taught).**

1 University of Bielsko-Biala (Poland), course "Information Security in Cloud Technologies" (72 hours). December 14-25, 2015.

2. Sofia Polytechnic University (Bulgaria), 16.06-1.07.2017

3. L.N. Gumilyov Eurasian National University, course "Management in Education" (72 hours), 19.02.2019 – 02.03.2019

4. Eastern Mediterranean University (Northern Cyprus), course "Educational technologies in IT direction" (72h), 01.07.2019-14.07.2019

5. Scientific and Methodological Center "ZIAT", Nur-Sultan, course "Application of innovative technologies in teaching the discipline "Theoretical foundations of information processes and systems"" (72h.), 02.08.2021-14.08.2021

6. Scientific and Methodological Center "ZIAT", Nur-Sultan, course Tools and methods of IT management-projects (72h.), 16.08.2021-28.08.2021

**5 Membership in professional organizations – I am not a member.**

**6 Awards and prizes** – winner of the title "Best University teacher- 2018".

**7 Activities in the service sector (within and outside the institution)**

- expert of innovative and investment projects in the field of information security of JSC "National Center for State Scientific and Technical Expertise";

- RSE "Republican Scientific and Practical Center "Textbook" of the Ministry of Education and Science of the Republic of Kazakhstan.

**8 The most important publications and presentations for the last five years – the title, co-authors (if any), where it was published and/or presented, the date of publication or presentation (according to the profile of educational programs and disciplines taught).**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| № | Name of the work | Form | Output data | Volume in p.l. | Co-authors of the work |
| 1 | Evaluation of Time Complexity in Investigation of Methods of Modular Exponentiation | статья | Research Journal of Applied Sciences 10 (2), 2015. ISSN: 1815-932X. | 0,25 | Zolotov A.,  Muhametov E., Karpinski M., Kozhahmetova D. |
| 2 | Comparison of methods of treatment of fuzzy information for distribution of access in computer systems | статья | **Research Journal of Applied Sciences, Engineering and Technology**, Vol.10, Issue: 9, 2015. Print ISSN:  2040-7459, Online ISSN:  2040-7467 | 0,5 | Shangytbayeva G., Ahmetov B., Beisembekova R. |
| 3 | Fuzzy system of access distribution within a computer network | статья | Journal of Theoretical and Applied Information Technology. 10th October 2015. Vol.80. No.1 ISSN: 1992-8645. E-ISSN: 1817-3195 | 0,5 | Zolotov, A.D.,Stepanova, O.A.,Karpinski, M.P.,Dubchak, L.O. |
| 4 | Formalized of model of linear kind for differentiate distributed network attacks on the basis of a weight coefficients | статья | Research Journal of Applied Sciences, Engineering and Technology. 2015 (Vol. 10, Issue: 12). ISSN (Online):  2040-7467 ISSN (Print):   2040-7459 | 0,5625 | Shangytbayeva, G.,Yerekesheva, M.,Kazbekova, G.,Shangytbayev, N. |
| 5 | A survey of modern IP traceback methodologies | статья | Proceedings of the 2015 IEEE 8th International Conference on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications, IDAACS 2015 | 0,5 | Balyk, A.,Iatsykovska, U.,Karpinski, M., A.,Korkishko, L |
| 6 | Prospective design of conveyor rollers | статья | **Research Journal of Applied Sciences. 2016. Vol. 11, Issue 5. ISSN: 1815-932X (Print), ISSN: 1993-6079 (Online).** | 0,375 | Manezhanov, B., Shayakhmetov, Y., Abilmazhinov, Y., Mansurov S. |
| 7 | Access Distribution Scheme to the Computer System Based on Fuzzy Logic | Глава в монографии | Graph-Based Modelling in Engineering / Eds. S. Zawiślak, J. Rysiński. – Springer, 2017. – Pp. 39-50. – ISBN 978-3-319-39018-5. – DOI 10.1007/978-3-319-39020-8. – Chapter in monograph. | 0,625 | Zolotov A., Dubchak L., Karpinski M., Karpinskyi V. |
| 8 | Robust stability of spacecraft traffic control system using Lyapunov functions | тезис | The 16th International Conference on Control, Automation, and Systems (ICCAS2016). October 16-19, 2016. HICO, Gyeongju, Korea | 0,5 | Uskenbayeva, G., Beisenbi, M., Satybaldina, D., Martsenyuk, V. |
| 9 | Control of Fuzzy Technological Objects Based on Mathematical Models. | тезис | The 16th International Conference on Control, Automation, and Systems (ICCAS2016). October 16-19, 2016. HICO, Gyeongju, Korea | 0,5 | Ospanov Y.A.,  Orazbayev B.B., Orazbayeva K.N.,  Gancarczyk T. |
| 10 | Computational Device Authentication via Fluctuations of Analog-to-Digital Converter | тезис | The 17th International Conference on Control, Automation, and Systems (ICCAS2017). October 18-21, 2017. HICO, Gyeongju, Korea | 0,5 | NyemkovaE., Chaplyga V.,Shandra Z.,  Kochan R.,  Gancarczyk T. |
| 11 | Design and development of automation system of business processes in educational activity | статья | Journal of Engineering and Applied Sciences.(Vol. 12, Issue: 18).2017. P:4702-4714 | 0,75 | Duisebekova K., Kozhamzharova D., Ukubasova, G., Serbin V. |
| 12 | The loading computation algorithm on bearings of rollers of belt conveyor | тезис | Proceedings of the 2017 IEEE 9th International Conference on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications, IDAACS 2017, 2, 8095040, р. 584-589 | 0,5 | Shayakhmetov, Y., Manesanov, B., Dildebaeva, Z., Kochan, R., Zawislak, S. |
| 13 | Computational device authentication via fluctuations of analog-to-digital converter | тезис | Proceedings of the 2017 IEEE 9th International Conference on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications, IDAACS 2017, 1,8095074, p. 190-193 | 0,5 | Nyemkova, E., Chaplyga, V., Shandra, Z., Gancarczyk, T. |
| 14 | Toxic substances in hazardous household waste | тезис | The 18th International Multidisciplinary Scientific Conference (SCEM2018). Jily 2-8, 2018. Albena, Bulgaria. Vol. 18, Issue 4.2, p. 223-230 | 0.5 | IshchenkoV., PohrebennykV., BorowikB.,  Falat P. |
| 15 | Wind turbine model with PIC microcontroller power control | тезис | The 18th International Multidisciplinary Scientific Conference (SCEM2018). Jily 2-8, 2018. Albena, Bulgaria. Vol. 18, Issue 4.1, p. 823-830 | 0.5 | Borowik Bogdan,  Borowik Barbara,  KarpinskyiV.,  Klos–Witkowska A. |
| 16 | On information system of master plan of a city in conditions of the change of the urban planning policy | тезис | The International Multidisciplinary Scientific GeoConference Surveying Geology and Mining Ecology Management, SGEM. 19(2.1), с. 995-1002 | 0,5 | Martsenyuk, V., Martsenyuk, O., Iatsykovska, U., Warwas, K. |
| 17 | Detection environment formation method for anomaly detection systems | статья | |  |  | | --- | --- | |  | Journal of Theoretical and Applied  Information Technology, 2019,  97(16), с. 4239-4250 | | 0,5 | Zhumangaliyeva N., Korchenko, A., Doszhanova, A. |
| 18 | Fuzzy modeling and control of the catalytic cracking unit on various types of information | статья | Journal of Theoretical and Applied Information Technology, 2020, 98(11), с. 4239-4250 | 0.5 | Orazbayev B., Kozhakhmetova D., Bekbaeva R., Zolotov A. |

**9 A brief list of new professional, experimental design developments, authorship or co-authorship in scientific or experimental design developments -**

Copyright Certificate No. 1599 dated 02.08.2016.

Copyright certificate No. 10096 dated "22" May 2020

Copyright certificate No. 10097 dated "22" May 2020

**10 If there are additions, then you can specify those important activities that are not marked in the resume list.**

1. Access Distribution Scheme to the Computer System Based on Fuzzy Logic. Graph-Based Modelling in Engineering / Eds. S. Zawiślak, J. Rysiński. – **Springer, 2017.** – Pp. 39-50. – ISBN 978-3-319-39018-5. – DOI 10.1007/978-3-319-39020-8. – Chapter in monograph.

2. On the Problem of Visualization of Big Graphs for Infrastructure Engineering. Mechanisms and Machine Science, 107/ Martsenyuk, V., Karpinski, M., Martsenyuk, O.- – **Springer, 2022**- Pp. 277–288. - ISBN:978-3-030-76787-7. -DOI:10.1007/978-3-030-76787-7\_13 - Chapter in monograph.

According to the results of scientific research, more than 80 scientific publications have been published, including 4 textbooks, 3 monographs (two in the Springer publishing house).

The Hirsch index in the Scopus database is 4.

ResearcherID Scopus - 56674670400

ResearcherID Web of Science - ABF-8846-202.