

LIST OF SCIENTIFIC WORKS OF SERGAZIN GANI KUDAIBERGENULY

Hirsch h-index: 10 according to the SCOPUS database

Author Identifier: Scopus ID: 59243177300, <https://orcid.org/0000-0003-2762-473X>

№ П/П	Title of Publication	Type of Publica tion (article , review, etc.)	Journal Name, Year of Publication (according to databases), DOI	Journal Impact Factor, Quartile, and Field of Science according to Journal Citation Reports	Index in the Web of Science Core Collection database	Journal CiteScore, Percentile, and Field of Science according to Scopus	Full Names of Authors (underline the candidate's name)	Role of the Candidate
1	Development of an Ankle Exoskeleton: Design, Modeling, and Testing	Article	Sensors 2025, 25(7), 2020; https://doi.org/10.3390/s25072020		Q1	88	<u>Sergazin, G.</u> , Ozhiken, A., Zhetenbayev, N., Ozhikenov, K., Tursunbayeva, G., Nurgizat, Y., Uzbekbayev, A., & Ayazbay, A.	First Author
2	Design, Simulation and Functional Testing of a Novel Ankle Exoskeleton with 3DOFs.	Article	Sensors 2024, 24(19), 6160; https://doi.org/10.3390/s24196160		Q1	88	<u>Sergazin, G.</u> , Zhetenbayev, N., Tursunbayeva, G., Uzbekbayev, A., Sarina, A., Nurgizat, Y., & Nussibaliyeva, A.	First Author
3	Research and Experimental Testing of a Remotely Controlled Ankle Rehabilitation Exoskeleton Prototype	Article	Sensors 2025, 25, 6784. https://doi.org/10.3390/s25216784		Q1	88	<u>A. Ozhiken;</u> <u>G. Sergazin;</u> K. Ozhikenov; H. Wang; N. Zhetenbayev;	Correspon ding Author

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							G.al Tursunbayeva; A. Nurmangaliyev; A. Uzbekbayev	
4	Design of a Fiber Temperature and Strain Sensor Model Using a Fiber Bragg Grating to Monitor Road Surface Conditions	Article	Inventions, 9(5), 100. https://doi.org/10.3390/inventions9050100		Q2	76	Kashaganova, G., Kozbakova, A., Kartbayev, T., Togzhanova, K., Alimseitova, Z., & <u>Sergazin, G.</u>	Co-author
5	Development of an Artificial Vision for a Parallel Manipulator Using Machine-to-Machine Technologies.	Article	Sensors, 2024(12), 3792. https://doi.org/10.3390/s24123792		Q1	88	Nussibaliyeva, A., <u>Sergazin, G.</u> , Tursunbayeva, G., Uzbekbayev, A., Zhetenbayev, N., Nurgizat, Y., Bakhtiyar, B., Orazaliyeva, S., & Yussupova, S.	Co-author
6	Trajectory Planning, Kinematics, and Experimental Validation of a 3D-Printed Delta Robot Manipulator	Article	International Journal of Mechanical Engineering and Robotics Research, Vol. 13, No. 1, 2024. doi:0.18178/ijmerr.13.1.113-125			55	A.Ayazbay, <u>G.Balbayev (Sergazin)</u> , S. Orazaliyeva, K. Gromaszek, and A. Zhauyt.	Co-author
7	A Portable Robotic System for Ankle Joint Rehabilitation	Article	Electronics, 2023, 12(20), 4271.		Q2	76	Nursultan, Z., Marco, C., & <u>Balbayev G (G. Sergazin)</u>	Co-author

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			https://doi.org/10.3390/electronics12204271					
8	Low-Cost Orientation Determination System for CubeSat Based Solely on Solar and Magnetic Sensors	Article	Sensors, 2023(14), 6388. https://doi.org/10.3390/s23146388		Q1	88	Nurgizat, Y., Ayazbay, A.-A., Galayko, D., <u>Balbayev G (G. Sergazin)</u> & Alipbayev, K.	Co-author
9	Research of a Fiber Sensor Based on Fiber Bragg Grating for Road Surface Monitoring	Article	Electronics (Switzerland) ., 2023, 12(11), 2491 https://doi.org/10.3390/electronics12112491		Q2	76	Kashaganova G., Kozbakova A., Kartbayev T., Balbayev G. (<u>Sergazin, G.</u>), Alimseitova Zh., Orazaliyeva S.	Co-author
10	Development of in-pipe defects detection and classification system	Article	Eastern-European Journal of Enterprise Technologies, 2025, 1(9 (133), 80–89. https://doi.org/10.15587/1729-4061.2025.323293			49	Rakhmetova, P., <u>Sergazin, G.</u> , Altay, Y., Dauletiya, D., & Kurmangaliyeva, L.	Co-author
11	Development of an innovative patch antenna design and implementation using ENG materials for health care systems and 5G networks	Article	Eastern-European Journal of Enterprise Technologies, 2025, 4(5 (130), 26–33. https://doi.org/10.15587/1729-4061.2024.309080			49	Nagima, B., Kumar, P., Suman, N., Serikov, T., Temirbekova, M., <u>Sergazin, G.</u> , Mussapirova, G., Arai, T., Tlenshiyeva, A., & Kassym, R.	Co-author

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12	Development a novel design of miniaturized heptagonal Koch fractal wide band antenna for 5G mm wave and IoT applications	Article	. Eastern-European Journal of Enterprise Technologies, 2024, 3(5 (129), 6–14. https://doi.org/10.15587/1729-4061.2024.306712			49	Kassym, R., Balgynbek, T., Serikov, T., Ahmetova, P., <u>Sergazin, G.</u> , Ozhikenov, K., Sultangaziyev, T., Kumar, P., Tlenshiyeva, A., & Yernazarov, N.	Co-author
13	О разработке критериев оценки альтернатив по методу многокритериального принятия решений при выборе протокола консенсуса блокчейна для сетей интернета вещей	Article	Вестник КазАТК, 2024 135(6), 263–271. https://doi.org/10.52167/1609-1817-2024-135-6-263-271				Ospanov, R., Seitkulov, E., Tashatov, N., Yergalieva, B., & <u>Sergazin, G.</u>	Co-author
14	О методах проектирования элементов внутренней структуры постквантового криптографического алгоритма электронной цифровой подписи.	Article	Вестник КазАТК, 2024 135(6), 140–150. https://doi.org/10.52167/1609-1817-2024-135-6-140-150				Ospanov, R., Seitkulov, E., Utebaev, K., Yergalieva, B., & <u>Sergazin, G.</u>	Co-author
15	Об альтернативах по методу многокритериального принятия решений при выборе протокола консенсуса блокчейна для сетей интернета вещей	Article	Вестник КазАТК, 2024, 134(5), 426–436. https://doi.org/10.52167/1609-1817-2024-134-5-426-436				Ospanov, R., Seitkulov, E., Tashatov, N., Yergalieva, B., & <u>Sergazin, G.</u>	Co-author

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16	О методах проектирования постквантового криптографического алгоритма электронной цифровой подписи	Article	Вестник КазАТК, 2024, 134(5), 157–167. https://doi.org/10.52167/1609-1817-2024-134-5-157-167				Ospanov, R., Seitkulov, E., Utebaev, K., Yergalieva, B., & <u>Sergazin, G.</u>	Co-author
17	Обучение модели yolo для распознавания леденцов halls с помощью maixduino	Article	Вестник КазАТК, 2024, 130(1), 353–362. https://doi.org/10.52167/1609-1817-2024-130-1-353-362				Ayazbay, A.-A., <u>Sergazin, G.</u> , Orazaliyeva, S., & Baykenov, B.	Co-author
18	Тартымды асинхронды электр жетегін басқару жүйесінің компоненттерін оңтайландыру	Article	Вестник КазАТК, 2023, 124(1), 384–396. https://doi.org/10.52167/1609-1817-2023-124-1-384-396				Darkenbayeva, E., & <u>Balbaev, G.</u>	Co-author
19	Machine-To-Machine (M2m) Технологиясын Қолдана Отырып, Мобильді Роботты Машиналарға Қызмет Көрсету Платформасы Арасындағы Байланысын Зерттеу	Article	Вестник КазАТК, 2023, 128(5), 209–222. https://doi.org/10.52167/1609-1817-2023-128-5-209-222				Nusibalieva, A., Yusupova, S., Zhetenbaev, N., Bakirova, N., & <u>Balbaev, G.</u>	Co-author
20	Моделирование конструктивной компоновки головки самонаведения противотанковой ракеты	Article	Вестник КазАТК, 2023, 128(5), 189–199. https://doi.org/10.52167/1609-1817-2023-128-5-189-199				Ayazbay, A.-A., <u>Balbaev, G.</u> , Sultan, A., Uzbekbaev, A., & Zhetenbaev, N.	Co-author

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21	Математическая модель калибровки магнитного датчика для наноспутника	Article	Вестник КазАТК, 2023, 127(4), 289–296. https://doi.org/10.52167/1609-1817-2023-127-4-289-296				Nurgizat, E., & <u>Balbaev, G.</u>	Co-author
22	Жетегі бар тобық буын экзоскелеттері: заманауи конфигурациялар және басқару механизмдері	Article	. Вестник КазАТК, 2023, 127(4), 262–275. https://doi.org/10.52167/1609-1817-2023-127-4-262-275				Zhetenbaev, N., <u>Balbaev, G.</u> , & Rysbek, A.	Co-author
23	Проблемы выделения и ранжирования объектов критической информационной инфраструктуры сотовых сетей связи в республике казахстан	Article	Вестник КазАТК, 2023, 126(3), 324–334. https://doi.org/10.52167/1609-1817-2023-126-3-324-334				Kyzyrkanov, A., Bakhyt, M., Musiraliyeva, Sh., <u>Balbaev, G.</u> , & Tulesheva, G.	Co-author
24	Тобық буынын оңалтуға арналған 3-prs робот манипуляторын құрастыру	Article	Вестник КазАТК, 2023, 124(1), 254–263. https://doi.org/10.52167/1609-1817-2023-124-1-254-263				Zhetenbaev, N., Zhauyt, A., <u>Balbaev, G.</u> , Alipbaev, K., & Shingisov, B.	Co-author
25	Manipulator control systems review	Article	Вестник КазАТК, 2023, 124(1), 245–253. https://doi.org/10.52167/1609-1817-2023-124-1-245-253				Ayazbai, A. A., <u>Balbaev, G. .</u> , & Orazalieva, . S.	Co-author

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			09-1817-2023-124-1-245-253					
26	Mathematical models of security attacks on mobile cellular systems	Article	Вестник КазАТК, 2022, 124(1), 213–221. https://doi.org/10.52167/1609-1817-2023-124-1-213-221				Atanov, S. ., Seitkulov, Y., <u>Balbavev, G.</u> , Zhuzbayev, S. ., & Tulesheva, G.	Co-author
27	Краткое описание разработки роботизированного экзоскелета для голеностопного сустава.	Article	Вестник КазАТК, 2022, 121(2), 282–293. https://doi.org/10.52167/1609-1817-2022-121-2-282-293				<u>Balbaev, G.</u> , Zhetenbaev, N., & Seitkulov, E.	First Author
28	Design of an automated control system of a delta manipulator with microcontroller based machine vision	Article	Вестник КазАТК, 2022, 123(4), 200–208. https://doi.org/10.52167/1609-1817-2022-123-4-200-208				Ayazbay, A.-A., & <u>Balbavev, G.</u>	Co-author
29	Телеметрическая система для высокоскоростных летательных аппаратов боевого назначения	Article	Вестник КазАТК, 2022, 123(4), 572–583. https://doi.org/10.52167/1609-1817-2022-123-4-572-583				Ermoldina, G., Berdibekov, A., Aden, A., <u>Balbaev, G.</u> , & Isimov, N.	Co-author

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30	Оңалтуға арналған параллель робот манипуляторлардың қазіргі жағдайы	Article	Вестник КазАТК, 2022, 123(4), 483–500. https://doi.org/10.52167/1609-1817-2022-123-4-483-500				Zhetenbaev, N., Duisebayeva, A., <u>Balbaev, G.</u> , Shingisov, B., & Seisenova, D.	Co-author
31	Асинхронды қозғалтқыштың тікелей қосылуын модельдеу және оның өтпелі процессіне талдау жүргізу	Article	Вестник КазАТК, 2022, 123(4), 453–462. https://doi.org/10.52167/1609-1817-2022-123-4-453-462				Darkenbayeva, E., & <u>Balbaev, G.</u>	Co-author
32	Построение имитационной компьютерной модели ветроэнергетической установки matlab simulink.	Article	Вестник КазАТК, 2022, 122(3), 246–254. https://doi.org/10.52167/1609-1817-2022-122-3-246-254				Tursunbayeva, G., Bakhtiyar, B., & <u>Balbaev, G.</u>	Co-author
33	Развитие гибридного общественного транспорта путь снижения карбонного загрязнения атмосферы города	Article	Вестник КазАТК, 2022, 122(3), 189–194. https://doi.org/10.52167/1609-1817-2022-122-3-189-194				Aliyarov, B., <u>Balbaev, G.</u> , Bakhtiyar, B., & Beysenbaev, M.	Co-author
34	Об анализе безопасности криптографической хеш-функции, построенной на основе модифицированной схемы sponge	Article	Вестник КазАТК, 2022, 122(3), 360–375. https://doi.org/10.52167/1609-1817-2022-122-3-360-375				Ospanov, R., Seitkulov, E., Yergalieva, B., <u>Balbaev, G.</u> , & Akhmediyeva, A.	Co-author

