

CURRICULUM VITAE



PERSONAL INFORMATION

(PhD in technical science, DSc in technical science)

First name: **Halimjon** Last name: **Khujamatov** Middle name: **Ergashevich**

Nationality: Uzbek

Date of Birth: December 21, 1987y.

Marital Status: Married

Sex: Male Age: 37

Mailing Address: 18-1, 1st floor, Nammun-ro 55 beon-gil, Sujeon-gu, Seongnam, Korea

E-mail: kh.khujamatov@gmail.com, kh.khujamatov@tuit.uz. Mobile phone: +998998402112

[Scopus Author ID: 57202037202](https://scopus.com/authid/detail.url?authorID=57202037202)

<https://orcid.org/0000-0001-5206-635X>

<https://scholar.google.com/citations?hl=en&user=U-g-oPkAAAAJ>

ACADEMIC INFORMATION

- | | |
|--------------------|--|
| 2018 – 2019 | PhD student, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi |
| 2010 – 2012 | Master`s degree, Tashkent University of Information Technologies, Major: Optical processing systems of communication and information |
| 2005 – 2009 | Bachelor`s degree, Tashkent University of Information Technologies, Major: Telecommunication Engineer |

CAREER EXPERIENCE

- | | |
|---------------------|--|
| 2024 – pres. | Research professor of “Computer Engineering” department, Gachon University, Republic of Korea. |
| 2023 – 2023 | Associate professor of “Data communication networks and systems” department, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Uzbekistan. |
| 2022 –2023 | Dean of the faculty "Computer engineering" Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Uzbekistan. |
| 2019 – 2022 | Head of “Data communication networks and systems” department, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Uzbekistan. |
| 2019 – 2019 | Associate Professor of “Hardware and Software of Management Systems in Telecommunication” department, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Uzbekistan. |
| 2017 - 2018 | Assistant lecturer, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Uzbekistan. |
| 2013 – 2017 | Deputy Dean, Faculty of the Telecommunication Technologies of Tashkent University of Information Technologies, Uzbekistan. |

PROFESSIONAL TRAINING

- | | |
|-------------------------------------|--|
| 2019
December | Certificate, The training courses “Level A of 5G O&M Course & WDM/OTN Product” Operation and Maintenance Course by ZTE University has successfully completed, Zhenzhen, China. |
| January 13, 2021
to June 4, 2021 | Knowledge Co-Creation program for “ICT Core Personnel Development (B) CIO Assistant” of the Japan International Cooperation Agency (JICA), Okinawa, Japan. |

PROFESSIONAL ASSOCIATION

- 2019-2022** Scientific secretary of the Scientific Council Awarding Scientific Degrees DSc.28.12.2017.T.07.02 at Tashkent University of Information Technologies
- 2022 – pres.** Member of the Scientific Seminar on "05.04.01 - Telecommunication and Computer Systems, Telecommunication Networks and Devices. Distribution of information" under Scientific Council Awarding Scientific Degrees DSc.28.12.2017.T.07.02 at Tashkent University of Information Technologies
- 2019-2022** Member of the Scientific Seminar on "05.01.01 - Engineering Geometry and Computer Graphics. Audio and Video Technology" under Scientific Council Awarding Scientific Degrees DSc.28.12.2017.T.07.02 at Tashkent University of Information Technologies
- 2019- pres.** Member of the Scientific Seminar on "05.04.02 - Radio engineering, radio navigation, radar and television systems and devices. Mobile, fiber-optic communication systems" under Scientific Council Awarding Scientific Degrees DSc.28.12.2017.T.07.02 at Tashkent University of Information Technologies
- 2019-2022** Member of the Scientific Seminar on "05.01.09 - Documentation. Archivology. Librarianship" under Scientific Council Awarding Scientific Degrees DSc.28.12.2017.T.07.02 at Tashkent University of Information Technologies

PROFESSIONAL MEETINGS

- 2023
June - July** Participation Certificate during of Modernization of Mechatronics and Robotics for Bachelor degree in Uzbekistan through Innovative Ideas and Digital Technology (MechaUz) project. Liepaja University, Liepaja, Latvia.
- 2022
November** Professional meeting around UZB-IND-2021-94 "Energy Efficient Communication and Data Flow in Smart City using CRN based IoT Framework" Uzbek-India International joint research project. Indian Institute of Technology Jodhpur (IITJ), Jodhpur, India.
- 2022
November** Professional meeting with professors of Tel Aviv University and Technion Israel Institute of Technology, Israel.
- 2022
May - June** Participation Certificate during of Modernization of Mechatronics and Robotics for Bachelor degree in Uzbekistan through Innovative Ideas and Digital Technology (MechaUz) project. Vilnius Gediminas Technical University, Vilnius, Lithuania.
- 2021
December** Professional meeting around UZB-IND-2021-94 "Energy Efficient Communication and Data Flow in Smart City using CRN based IoT Framework" Uzbek-India International joint research project. Indian Institute of Technology Jodhpur (IITJ), Jodhpur, India.
- 2018
November** Participation Certificate, the meeting is on the following topics: - Smart Building in seismically active areas, Sustainable building and Urban design: - Smart building materials and technologies: - Smart metering, Urban data (Big Data), Smart city technologies: - Advanced Energy conversion systems, Indoor air quality technologies, University of L'Aquila, L'Aquila, Italy.
- 2018
May-June** Participation Certificate, the meeting is on the following topics: - Smart Building in seismically active areas, Sustainable building and Urban

design: - Smart building materials and technologies: - Smart metering, Urban data (Big Data), Smart city technologies: - Advanced Energy conversion systems, Indoor air quality technologies, University of L'Aquila, L'Aquila, Italy.

**2017
September**

Participation Certificate, Modernization of the Curricula in sphere of smart building engineering – Green Building (GREB) 574049-EPP-1-2016-1-IT-EPPKA2-CBHE-JP, Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tashkent, Uzbekistan.

PROJECT EXPERIENCE

Project coordinator (ongoing)	European Association for Cooperation, Erasmus + 609564-EPP-101128871-EL-EPPKA2-CBHE-JP “DEBSEUz: Development of the targeted Educational program for Bachelors in Solar Energy in Uzbekistan” (2023-2026 y).
Project investigator (completed)	UZB-IND-2021-94 “Energy Efficient Communication and Data Flow in Smart City using CRN based IoT Framework” Uzbek-India International joint research project (2021-2023 y).
Project member (completed)	AKT-A-2021-3 “Creation and development of a software and prototype of a simulation stand for the study of power system output parameters based on renewable energy sources” Research Project (2021-2023 y).
Project member (completed)	F3-2019080214 “Development of a robot is used in state of emergency” Research Project (2020-2021 y).
Local coordinator (completed)	European Association for Cooperation, Erasmus + 609564-EPP-1-2019-1-EL-EPPKA2-CBHE-JP “MechaUZ: Modernization of Mechatronics and Robotics for Bachelor degree in Uzbekistan through Innovative Ideas and Digital Technology” (2020-2023 y).
Primary investigator (completed)	№7/18 “Improving energy efficiency and improving the energy performance of communication facilities using hybrid energy sources” Research Project (2018-2019 y).
Project member (completed)	BV-A3-027 “Development and introduction of power supply control system for the building with independent energy sources” Research Project (2017-2018).
Project member (completed)	European Association for Cooperation, Erasmus + 574049-EPP-1-2016-1-IT-EPPKA2 - CBHE - JP “Modernization of the Curricula in sphere of smart building engineering - Green Building (GREB)” (2016-2019 y).
Project member (completed)	ITD-17-015 “Research of working stability of telecommunication facilities and networks of the Republic of Uzbekistan” Research Project (2009-2011y).
Project member (completed)	VN 81182259 “Pilot project of Uzbekistan: Climate Change mitigation in rural areas of Uzbekistan - demonstration project at private farm Furqat of Pakhtakor district in the Mirzachul steppe”.

TEACHING EXPERIENCE

BSc subjects	Computer networks, Data communication networks and systems, Network protocols, Modeling and Simulation of Data Communication Systems.
MSc subjects	Network security, Network management

ADDITIONAL INFORMATION

Areas of Area	IoT, Wireless Sensor Network, Blockchain technology, Intelligent communication, Smart grid.
----------------------	---

Hobbies	Sports (football), Traveling
Language Skills	Uzbek (native), Russian (Intermediate), English (Intermediate)
Health	Excellent

PUBLICATIONS

ARTISTIC SKILLS

His published work consisted of more than 150 articles. Below are some selected publications:

- 1 Halimjon Khujamatov, Mohaideen Pitchai, Alibek Shamsiev, Abdinabi Mukhamadiyev, Jinsoo Cho. Clustered Routing Using Chaotic Genetic Algorithm with Grey Wolf Optimization to Enhance Energy Efficiency in Sensor Networks // Sensors 2024, Volume 24, Issue 13, 4406. **(Q2 - quartile), (SCIE:IF: 3,4).**
- 2 Khairol Amali Bin Ahmad, **Khujamatov Halimjon**, Nurshod Akhmedov, Mohd Yazid Bajuri, Mohammad Nazir Ahmad, Ali Ahmadian. Emerging trends and evolutions for smart city healthcare systems // J.: Elsevier, "Sustainable Cities and Society". № 80, 2022. 103695 – 16 p. **(Q1 - quartile), (SCIE:IF: 10,69).**
- 3 **Khujamatov Halimjon**, Khaleel Ahmad, Nargiza Usmanova, Jamshid Khoshimov, Mai Alduailij, Mona Alduailij. Fog Computing Capabilities for Big Data Provisioning: Visualization Scenario // J.: MDPI, "Sustainability". 14(13), 8070. Switzerland-2022. – 13 p. **(Q2 - quartile), (SCIE: IF: 3,88).**
- 4 Khaleel Ahmad, **Khujamatov Halimjon**, Amir Lazarev, Nargiza Usmanova, Mona Alduailij, Mai Alduailij. Internet of Things-Aided Intelligent Transport Systems in Smart Cities: Challenges, Opportunities, and Future // J.: Hindawi, "Wireless Communications and Mobile Computing". Article ID 7989079, 2023. – 28 p. **(SCIE: Q2 - quartile), (IF:2,5).**
- 5 Tanwar S., **Khujamatov H**, Turumbetov B., Reypnazarov E., Allamuratova Z. Designing and Calculating Bandwidth of the LTE Network for Rural Areas // International Journal on "Advanced Science, Engineering and Information Technology". Vol.12, No. 2, 2022. - P. 437–445. **(Q3 - quartile).**
- 6 Refat Ibraimov, Maxbuba Sultonova, **Khujamatov Halimjon**. The Integral Distribution Function of the Kilometric Attenuation of Infrared Radiation in the Atmosphere Fergana Region of the Republic of Uzbekistan // J.: Webology, "Special Issue on Current Trends in Management and Information Technology". Volume 18, 2021. - P. 316-327. **(Q3 - quartile), (IF: 1,61).**
- 7 Khasanov Doston, **Khujamatov Halimjon**, Fayzullaev Bayram, Reypnazarov Ernazar. WSN-based monitoring systems for the solar power stations of telecommunication devices // "IIUM Engineering Journal". Vol. 22, No. 2, 2021. – P. 98-118. **(Q3 - quartile), (IF: 1,61).**
- 8 **Khujamatov Halimjon**, Nurshod Akhmedov, Ernazar Reypnazarov, Doston Khasanov, Amir Lazarev. Device-to-Device and Millimeter Waves Communication for 5G Healthcare Informatics // "Blockchain Applications for Healthcare Informatics Beyond 5G". 2022. – P. 181-211. **(Book chapter).**
- 9 **Khujamatov Halimjon**, Nurshod Akhmedov, Ernazar Reypnazarov, Doston Khasanov. Traditional vs. the blockchain-based architecture of 5G healthcare // "Blockchain for 5G Healthcare Applications: Security and privacy solutions" 2022. – P. 131–167. **(Book chapter).**
- 10 **Khujamatov Halimjon**, Ernazar Reypnazarov, Nurshod Akhmedov, Doston Khasanov. Existing Technologies and Solutions in 5G-Enabled IoT for Industrial Automation // Springer Nature Switzerland AG "Blockchain for 5G-Enabled IoT". Switzerland – 2021. – P. 181-221. **(Book chapter).**

- 11 **Khujamatov Halimjon**, Ernazar Reypnazarov, Nurshod Akhmedov, Doston Khasanov. IoT, IIoT, and Cyber-Physical Systems Integration // "Advances in Science, Technology & Innovation, Emergence of Cyber Physical System and IoT in Smart Automation and Robotics". Egypt – 2021. – P. 31-50. **(Book chapter)**.
- 12 Afsar Kamal, Khaleel Ahmad, Rosilah Hassan, **Khujamatov Halimjon**. NTRU Algorithm: Nth Degree Truncated Polynomial Ring Units // "EAI/Springer Innovations in Communication and Computing, Functional Encryption". Switzerland – 2021. – P. 103-115. **(Book chapter)**.

PATENTS AND CERTIFICATES

- 1 Manju Khari, Khaleel Ahmad, M.A.Rizvi, **Khalim Khujamatov**, Djamshid Sultanov. HIHO-Blockchain Technology: HEALTH INFORMATION AND HEALTHCARE OBSERVATION USING BLOCKCHAIN TECHNOLOGY// **Innovation patent**, Commonwealth of Australia, Patent Office, Australian Government №202010946, 16.09.2020.
- 2 Khaleel Ahmad, Manju Khari, Tamanna Siddiqui, **Khalim Khujamatov**, M.A. Rizvi. C/D CARD FRAUD DETECTION: INTELLIGENT PROCESS TO DETECTION DEBIT / CREDIT CARD FRAUD USING MACHINE LEARNING// **Patent**, Intellectual Property India, №202041034750, 04.09.2020.
- 3 R.K.Azimov, I.X. Siddikov, **H.Khujamatov**, X.A.Sattarov, D.T.Hasanov. Current to voltage converter // Invention patent of the Intellectual Property Agency under the Ministry of Justice of the Republic of Uzbekistan No. IAP 06646. 12.11.2021