

Curriculum Vitae

1. Name Surname: Sahar Ebadinezhad
2. Title: Associate Professor
3. Education: Ph.D



ORCID ID: <https://orcid.org/0000-0001-9782-4820>

Google Scholar:

https://scholar.google.com/citations?hl=en&user=L1i0aFIAAAJ&view_op=list_works&sortby=pubdate

¹ Department of Computer Information Systems, Near East University, Nicosia 99138, Cyprus. sahar.ebadinezhad@neu.edu.tr

² Computer Information Systems Research and Technology Center (CISRTC), Near East University, Turkey.

Degree	Field	University	Year
Bachelor	Computer Engineering	University of Applied Science & Technology, Tehran, Iran	2011
Master	Computer Engineering	Eastern Mediterranean University	2014
Doctorate	Computer Engineering	Cyprus International University	2019

4. Academic Titles

Title	Department	University	Year/Period
Assistant Professor	Department of Computer Engineering	NEU	2019-2020
Associate Professor	Department of Computer Engineering	NEU	2023-2024
Professor			

5. Master Thesis and Advisor(s):

“variable bite rate workload modeling for mobile broadband wireless networks”, Assoc. Prof. Dr. Dou Arifler, 2014.

6. PhD Thesis and Advisor(s):

Clustering-Based Modified Ant Colony Optimizer for Internet of Vehicles (CACOIoV), Asst. Prof. Dr. Ziya Dereboylu, Assoc. Prof. Dr. Enver Ever.

7. Publications

7.1. Articles published in peer reviewed international journals (SCI, SSCI Arts and Humanities)

- i. Ebadinezhad, S., & Ahmed, N. A. (2025). Privacy-Preserving Federated Learning for Skin Cancer Detection Using Homomorphic Encryption and Advanced Deep Learning Techniques. *IAENG International Journal of Computer Science*, 52(7).
- ii. Ebadinezhad, S., Shaalan, A. K. S., Algailani, N. K. O., Al-Hussein, M., & Yonmah, C. Z. (2025, March). Designing and Analyzing Green Networking Solutions in Data Centers Using AI for Energy Optimization. In 2025 International Conference on Machine Learning and Autonomous Systems (ICMLAS) (pp. 786-792). IEEE.
- iii. Ebadinezhad, S., Nia, N. N., Shirzad, N., & Osemeha, N. K. (2025, March). Enhancing Intrusion Detection Systems Using RNN, LSTM, and Hybrid RNN-LSTM Models. In 2025 International Conference on Machine Learning and Autonomous Systems (ICMLAS) (pp. 1108-1115). IEEE.
- iv. Ebadinezhad, S., Abdillahi, A. Y., Fareed, G. S., Tuama, Y. A., Maombe, J., & Igwe, I. H. (2025, March). Developing and Comparing Protocols for Low-Latency IoT Networking. In 2025 International Conference on Machine Learning and Autonomous Systems (ICMLAS) (pp. 1815-1821). IEEE.
- v. Ebadinezhad, S., & Alsaroah, A. H. A. (2025, January). Comparative Analysis of Edge-based and Cloud-based Intrusion Detection Systems: A Systematic Literature Review. In 2025 6th International Conference on Mobile Computing and Sustainable Informatics (ICMCSI) (pp. 707-714). IEEE.
- vi. Alhawari, A. Ebadinezhad, S. (2025, January). Exploring The Role of Interpretability in Adversarial Defense Mechanisms based Malware Classification. In 2025 6th International Conference on Mobile Computing and Sustainable Informatics (ICMCSI) (pp. 175-181). IEEE.
- vii. Ebadinezhad, S. (2025). Watersheds' Nexus of AI, Sustainable Land Management. *Climate Change and Water Resources in Mediterranean Countries: Climate Change and Water Crisis*, 313.
- viii. Ebadinezhad, S., & Bayemi, P. F. N. (2024). SDN and NFV security challenges and solutions for minimizing failures in IoT networks. *Research Advances in Network Technologies: Volume 2*, 22. published by CRC Press, Taylor & Francis Group.
- ix. Ebadinezhad, S. (2024). Addressing Security Concerns in IoT-Enabled Smart Health Systems: Transforming Healthcare Delivery. 6th Global Healthcare Travel Forum and Conference (GHTF-2024). April 2024.
- x. Olawale, O. P., & Ebadinezhad, S. (2024). Medical IT in Remote Healthcare: A Review. 6th Global Healthcare Travel Forum and Conference (GHTF-2024). April 2024.
- xi.
- xii. Ebadinezhad, S; Conth, A; Arshed, KH; Khalaf, H. (2024). Reinforcement Learning for dynamic traffic routing and optimization. 7th International Conference on Inventive Computation Technologies - ICICT 2024, Tribhuvan University, Nepal.
- xiii. Ebadinezhad, S; Aminu, K; Mpia, G; Kenneth, N; Shoaib, A. (2024). The Impact of AI on Traffic Management and Safety in the Internet of Vehicles through Mobile Edge Computing. 7th International Conference on Inventive Computation Technologies - ICICT 2024, Tribhuvan University, Nepal.
- xiv. Ebadinezhad, S; Mohammed, M; Deen, Z; Kiminou, F. (2024). The Role of IoT in Enhancing Public Safety in Smart Cities 7th International Conference on Inventive Computation Technologies - ICICT 2024, Tribhuvan University, Nepal.
- xv. Ebadinezhad, S., & Mobolade, T. E. (2024). A Novel Cloud-Based IoT Framework for Secure Health Monitoring. *Sustainability*, 16(3), 1349.
- xvi. Ebadinezhad, S. (2023). Synergies of Smart Sustainability: Unveiling the Mediterranean Watersheds' Nexus of AI, Sustainable Land Management, and Socio-Environmental Dynamics. In Springer Nature Book of "Climate Change and Water Resources in Mediterranean Countries", chapter of "Synergies of Smart Sustainability: Unveiling the Mediterranean Watersheds' Nexus of AI, Sustainable Land Management, and Socio-Environmental Dynamics."
- xvii. Ebadinezhad, S., & Uzelaltinbulat, S (2023). An Overview Of Block-Chain Technology And Related Security Attacks: Systematic Literature Review. *THE SEYBOLD REPORT*, PP. 842-856, Vol 18, N 11. DOI: 10.5281/zenodo.10209791.

xviii. Ebadinezhad, S., & Abdulmajed, H (2023). Data Security Enhancement in Cloud Computing by Proposing A DKE Encryption Protocol. 2023 International Conference on Advances in Artificial Intelligence and Applications (AAIA 2023). will be published by ACM International Conference Proceedings Series (ISBN Number:979-84007-0826-8). <https://doi.org/10.1145/3603273.3634712>

xix. Olawale, O. P., & Ebadinezhad, S. (2023). The Detection of Abnormal Behavior in Healthcare IoT Using IDS, CNN, and SVM. In Mobile Computing and Sustainable Informatics: Proceedings of ICMCSI 2023 (pp. 375-394). Singapore: Springer Nature Singapore. https://doi.org/10.1007/978-981-99-0835-6_27

xx. Ebadinezhad, S. (2023). A Systematic Literature Review on Information Security Leakage: Evaluating Security Threat. In: Shakya, S., Balas, V.E., Haoxiang, W. (eds) Proceedings of 3rd International Conference on Sustainable Expert Systems (ICSES - 2022), *Lecture Notes in Networks and Systems*, vol 587. Springer, Singapore, pp 993– 1007. https://doi.org/10.1007/978-981-19-7874-6_73

xxi. Ebadinezhad, S. (2021). Design and performance evaluation of Improved DFACO protocol based on dynamic clustering in VANETs. *SN Applied Sciences*, 3(4), 1-15.

xxii. Ebadinezhad, S. (2021). Design and Analysis of An Improved AODV Protocol Based on Clustering Approach for Internet of Vehicles (AODV-CD). *International Journal of Electronics and Telecommunications*, 67.

xxiii. Ebadinezhad, S. (2020). DEACO: Adopting dynamic evaporation strategy to enhance ACO algorithm for the traveling salesman problem. *Engineering Applications of Artificial Intelligence*, 92, 103649.

xxiv. Ebadinezhad, S., Dereboylu, Z., & Ever, E. (2019). Clustering-based modified ant colony optimizer for internet of vehicles (CACOIV). *Sustainability*, 11(9), 2624.

xxv. Ebadinezhad, S., & Hasan, S. (2019). BER Evaluation in LTE SC-FDMA under Multipath Channels. *International Journal of Recent Technology and Engineering*, 8(4), 3539-3547.

xxvi. Behnamshirazi, N., Alipour, H., & Ebadinezhad, S. (2019). Achieving Sustainable Tourism Through Eco-Lodge Venture: Evidence from Eco-Lodge Cases. *Co-Editors*, 85.

xxvii. Ebadinezhad, S., Arifler, D., Bahmani, K., & Ince, E. A. (2014, April). Streaming stored video over multi-channel wireless systems: Scheduler performance evaluation. In *2014 22nd Signal Processing and Communications Applications Conference (SIU)* (pp. 563-566). IEEE.

7.2. Articles published in other peer reviewed international journals

7.3. Papers delivered in international conferences and printed as proceedings

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7.4. Books and sections in books published internationally

7.5. Articles published in peer reviewed national journals

7.6 Papers delivered at national conferences and printed as proceedings

7.7 Other publications

Patents

8. Projects directed and participated

- Webinar speaker “**Silent Sound Technology**” webinar. Department of Computer Information Systems & BESATEM, Near East University, Nicosia, Cyprus. 29/11/2023.

- Webinar speaker “**Smart Fabrics and Wearable Technology**” webinar. Department of Computer Information Systems & BESATEM, Near East University, Nicosia, Cyprus. 27/12/2023.
- Webinar speaker “**Explainable artificial intelligence (XAI)-natural language**” webinar. Department of Computer Information Systems & BESATEM, Near East University, Nicosia, Cyprus. 15/ 03/2023.
- Webinar speaker “**Internet of Nano Things**” webinar. Department of Computer Information Systems & BESATEM, Near East University, Nicosia, Cyprus. 1/ 11/2022.
- Webinar speaker “**Smart Home Automation Security**” webinar. Department of Computer Information Systems & BESATEM, Near East University, Nicosia, Cyprus. 7/ 10/2022.
- Attended to “**AI in Business**” webinar. Department of Computer Information Systems & BESATEM, Near East University, Nicosia, Cyprus, 17/05/2022.
- Attended to “AI in Business” webinar. Department of Computer Information Systems & BESATEM, Near East University, Nicosia, Cyprus, 17/05/2022.
- Webinar speaker “**Neuromorphic Computing**” webinar. Department of Computer Information Systems & BESATEM, Near East University, Nicosia, Cyprus.16/ 05/2022.
- Attended to “Machine Learning in Autism Diagnosis” webinar. Department of Computer Information Systems & BESATEM, Near East University, Nicosia, Cyprus, 10/05/2022.
- Attended to “**Data Analysis with AMOS**” webinar, Department of Computer Information Systems & BESATEM, Near East University, Nicosia, Cyprus, 9/05/2022.
- Webinar speaker “**Quantum Computing (QC)**” webinar. Department of Computer Information Systems & BESATEM, Near East University, Nicosia, Cyprus. 11/ 04/ 2022.
- Webinar speaker “**Internet of Medical Things (IoMT)**” Webinar. Department of Computer Information Systems & BESATEM, Near East University, Nicosia, Cyprus. 10/01/2022.
- Webinar speaker “**Artificial Intelligence Enabled Software-Defined Networking**” Webinar. Department of Computer Information Systems & BESATEM, Near East University, Nicosia, Cyprus. 22/11/2021.
- Lectured “**Java course**”, E-studybox, Near East University, Nicosia, Cyprus 2021.
- Lectured “**Animation Technique course**”, E-studybox, Near East University, Nicosia, Cyprus 2021.
- Attended to “*Literatü r Tarama Teknikleri ve Pratik Araş tırma Teknikleri*”, EBSCO, Turkey. 10/08/2021.
- Attended to “*TÜ Bİ TAK ULAKBİ M'den Tü m Ü niversite Araş tırmacılarına Kaynaklar*”, EBSCO, Turkey. 10/08/2021.
- Attended to “*Siber Gü venlikte Tehditler ve Savunma Yö ntemleri*”, Koç Sistem, Turkey, 08/06/2021.
- Attended to “*Web of Science Core Collection: Discovery Starts Here!*”, Web of Science Group, A Clarivate Analytics Company, 25/05/2021.
- Attended to “*Google Araç ları*”, Department of Computer Information Systems & BESATEM, Near East University, Nicosia, Cyprus, 17/05/2021.

- Attended to “*Big Data Analytics in Today’s World*”, Department of Computer Information Systems & BESATEM, Near East University, Nicosia, Cyprus, 12/05/2021.
- Attended to “*Privacy Matters: Mobile And Social Media Data*“ Department of Computer Information Systems & BESATEM, Near East University, Nicosia, Cyprus, 05/05/2021.
- Attended to “*Applications of Drone Technology*” Department of Computer Information Systems & BESATEM, Near East University, Nicosia, Cyprus, 12/04/2021.
- Webinar speaker “*Fog And Cloud Computing For The Internet Of Things*”. Department of Computer Information Systems & BESATEM, Near East University, Nicosia, Cyprus, 11/05/2021.
- Webinar speaker “*Design And Analysis Of An Improved Aodv Protocol Based On Clustering Approach For Internet Of Vehicles*”. Department of Computer Information Systems & BESATEM, Near East University, Nicosia, Cyprus, 26/04/2021.
- Webinar speaker “*Architecture, Application and Routing challenges of Mobile ad hoc network (MANET), Vehicular ad hoc network (VANET) and Internet of Vehicles (IoVs)*”. Department of Computer Information Systems & BESATEM, Near East University, Nicosia, Cyprus, 10.12.2020.

9. Administrative designations

- i. Member of Computer Information Systems Research and Technology Center (CISRTC), Near East University.
- ii. Yonetisim ve Liderlik Komisyon Uyesi (Member of the Governance and Leadership Commission)
- iii. Ölçme, Değerlendirme ve Temyiz Komisyonu (Measurement, Evaluation and Appeals Commission)
- iv. Başvuru Sahiplerinin Transkript Değerlendirilmesi (Lisans – Yüksek Lisans - Doktora – Nakil Öğrenciler) / Transcript Evaluation of Applicants
- v. Transfer ve İntibak Komisyon Üyesi (Transfer and Adaptation Commission Member)
- vi. Akademik Danışmanlık (İngilizce Program) / Academic Advisorship

10. Membership in scholarly institutions

- Member of Journal Referee (Reviewer, 2024- Recent), Journal of Platforms, MPDI.
- Member of Journal Referee (Reviewer, 2023- Recent), Journal of Cloud Computing.
- Member of Journal Referee (Reviewer, 2023- Recent), The Journal of Super-computing.
- Member of Journal Referee (Reviewer, 2023- Recent), SN Computer Science.
- Member of Journal Referee (Reviewer, 2023- Recent), Complex & Intelligent Systems.
- Member of Journal Referee (Reviewer, 2023- Recent), Enginreeing Computation, Emberland.
- Member of Journal Referee (Reviewer, 2023- Recent), International Journal of Adaptive Control and Signal Processing.
- Editorial board member in “International Conference on Advances in Artificial Intelligence and Applications (AAIA)”, November 18--20, 2023, Wuhan, China.
- Editorial board member in ‘PriMera Scientific Engineering’.
- Editorial board member in “Advances in Wireless Communications and Networks (AWCN)”
- Member of Journal Referee (Reviewer, 2022- Recent), Indonesian Journal of Electrical Engineering and Computer Science.
- Member of Journal Referee (Reviewer, 2022- Recent), PeerJ Computer Science.
- Member of Conference Referee (Reviewer 2021), The 6th International Conference on

- Computer Science and Application Engineering (CSAE 2022). Jul 30, 2020.
- Member of Journal Referee (Reviewer, 2019- Recent), Springer journal/ Wireless Personal Communications.
- Member of Journal Referee (Reviewer, 2019- Recent), "InderScience journal/ International Journal of Ad Hoc and Ubiquitous Computing (IJAHUC)".
- Member of Journal Referee (Reviewer, 2019- Recent), "International Journal of Communication Systems"
- Member of Journal Referee (Reviewer, 2019- Recent), "International Conference on Computer Science and Application Engineering".
- Member of Journal Referee (Reviewer, 2019- Recent), "*ISA Transactions*" Elsevier Journal.
- Member of Journal Referee (Reviewer, 2019- Recent), "Bentham Science Journal".
- Bentham Science Ambassador, 2019- Recent.

11. Awards and grants

- NEU (2019) - Scientific Publication Award
- NEU (2021) - Scientific Publication Award
- NEU (2024) - Scientific Publication Award
- Neuromorphic Computing (16/ 05/2022)
- Quantum Computing (QC) (11/ 04/ 2022)
- Internet of Medical Things (IoMT) (10/01/2022)
- Artificial Intelligence Enabled Software-Defined Networking (22/11/2021)
- Fog And Cloud Computing For The Internet Of Things (11/05/2021)
- Design And Analysis Of An Improved Aodv Protocol Based On Clustering Approach For Internet Of Vehicles (26/04/2021)
- Architecture, Application and Routing challenges of Mobile ad hoc network (MANET), Vehicular ad hoc network (VANET) and Internet of Vehicles (IoVs) (10.12.2020)
- Publication Certificate from International Journal of Recent Technology and Engineering (IJRTE), (2019)
- *ISA Transactions/ Elsevier Journal*, certificate of reviewing.
- The present and future of Artificial Intelligence
- Effective e-exam design
- Process-oriented assessment methods in distance education
- Lesson planning and designing a learning environment in distance education
- Classroom management and communication in distance education
- Educational simulations
- Interacting course videos
- Information ethics and information security
- Digital approaches in education

12. ADVISOR OF PhD THESIS

- ASSEM_RADI_HASAN ALHAWARI (2024, in progress). Exploring The Role of Interpretability in Adversarial Defense Mechanisms Based Malware Classification. Dissertation, Near East University, Institute of Graduate Studies, Department of Computer Information Systems, Nicosia, Cyprus.

- Ahmed Conteh (2023, in progress). *AI-Enabled Predictive Maintenance for IoT-Based Smart Irrigation Monitoring Systems*. Dissertation, Near East University, Institute of Graduate Studies, Department of Computer Information Systems, Nicosia, Cyprus.
- Oluwaseun_Priscilla (2022, in progress). *The Detection of Abnormal Behavior in Healthcare IoT Using IDS, CNN, and SVM*. Dissertation, Near East University, Institute of Graduate Studies, Department of Computer Information Systems, Nicosia, Cyprus.
- Temitope Emmanuel Mobolade (2022, in progress). *Cloud Based IoT for Secure Health Monitoring*. Dissertation, Near East University, Institute of Graduate Studies, Department of Computer Information Systems, Nicosia, Cyprus.
- Alper Çavuş (2022, in progress). *E-Government*, Dissertation, Near East University, Institute of Graduate Studies, Department of Computer Information Systems, Nicosia, Cyprus.

13. ADVISOR OF MASTER THESIS

- *Alwaled Khalid Shaalan Shaalan (2025 in progress). Feature Optimization and Accurate DDoS Attack Detection in IoT Networks Using GOA Algorithm and BiLSTM. Master Thesis, Near East University, Graduate School of Applied Sciences, Department of Computer Information Systems, Nicosia, Cyprus.*
- *Ibrahim_Khalaf_Hussein (2025). 5G Network Security: Evaluating Performance of Network Slicing. Master Thesis, Near East University, Graduate School of Applied Sciences, Department of Computer Information Systems, Nicosia, Cyprus*
- *Mutaz Salah Mohammed Abdalkarim (2023). Guardian Ai: Transforming Fraud Detection And Prevention With Advanced Algorithms. Master Thesis, Near East University, Graduate School of Applied Sciences, Department of Computer Information Systems, Nicosia, Cyprus*
- *Kazeem Aminu Stanley (2023). Performance Evaluation Of Dynamic Routing Protocols For Traffic Load Balancing In Fanets: A Systematic Literature Review. Master Thesis, Near East University, Graduate School of Applied Sciences, Department of Computer Information Systems, Nicosia, Cyprus*
- *Ali Hussein Abdulrazzaq Alsaroah (2023). Edge -based vs Cloud based Intrusion Detection Systems: A Systematic Literature Review. Master Thesis, Near East University, Graduate School of Applied Sciences, Department of Computer Information Systems, Nicosia, Cyprus.*
- *Imran Kolawole Ibrahim (2023, in progress). Integration of Internet of Vehicles (IOV) and Cloud Computing: A Systematic Literature Review. Master Thesis, Near East University, Graduate School of Applied Sciences, Department of Computer Information Systems, Nicosia, Cyprus.*
- *Adam Muhammad (2023, in progress). Performance Evaluation of Machine Learning Techniques in Cybersecurity. Master Thesis, Near East University, Graduate School of Applied Sciences, Department of Computer Information Systems, Nicosia, Cyprus.*
- *Michael Ogbonna (2023). Systematic Literature review on Vehicle Cyber Security. Master Thesis, Near East University, Graduate School of Applied Sciences, Department of Computer Information Systems, Nicosia, Cyprus.*
- *Nurudeen Bode Ayansina (2023). Design and Performance Evaluation of Routing Attacks in FANET. Master Thesis, Near East University, Graduate School of Applied Sciences, Department of Computer Information Systems, Nicosia, Cyprus.*
- *Ennuentti Nagbe (2022). A Systematic Literature Review on Detecting Cybersecurity Attacks in the Internet of Things. Master Thesis, Near East University, Graduate School of Applied Sciences, Department of Computer Information Systems, Nicosia, Cyprus.*

- Pierre Fabrice Nlend Bayemi (2022). *Proposing A New Algorithm For Network Security Protection System For Iov*. Master Thesis, Near East University, Graduate School of Applied Sciences, Department of Computer Information Systems, Nicosia, Cyprus.
- Temiloluwa_Oluwabukunmi Modupeola (2022). *Cryptography and Secure Cloud Model for E-Health*. Master Thesis, Near East University, Graduate School of Applied Sciences, Department of Computer Information Systems, Nicosia, Cyprus.
- Afolabi Mudathir Olawale (2022). *Opportunities and Challenges of Cloud Computing to Small and Medium Enterprises in Developing Countries: A Systematic Literature Review*. Master Thesis, Near East University, Graduate School of Applied Sciences, Department of Computer Information Systems, Nicosia, Cyprus.
- Halmat Ayub Abdulmajed (2021). *Data Security Enhancement in Cloud Computing by Proposing A DKE Encryption Protocol*. Master Thesis, Near East University, Graduate School of Applied Sciences, Department of Computer Information Systems, Nicosia, Cyprus.
- Maged Saleh Abdulqawi (2021). *Cloud, Edge and Fog Computing Systems: Systematic Mapping of Security and Privacy Issues*. Master Thesis, Near East University, Graduate School of Applied Sciences, Department of Computer Information Systems, Nicosia, Cyprus.

14. Courses taught over the last two academic years

Academic Year	Term	Course Code and Name	Weekly Hours	
			Theoretical	Practical
2023-2024	Spring	CIS416 Computer Networks	2	2
		CIS142/242 Animation Technologies	2	2
		CIS252/352 Programming Language III	2	2
		CIS256/356 Object Oriented Prog. Lang. I	2	2
		CIS411 Mang. Info. Systems	3	0
		CIS505 (MASTER) Advanced Information Systems Security	3	0
	Fall	CIS420 Information Systems Security	3	0
		CIS143/243 Data Structures	3	0
		CIS263/363 Software Engineering	3	0
		CIS231/331 System Analysis Method	3	0
		CIS288/488 Web Development	3	0
		CIS513 (MASTER)	3	0

		Advanced Computer Networks		
		CIS400 Graduation Project	3	0
2024-2025	Summer	CIS416 Computer Networks	3	0
		CIS420 Information Systems Security	3	0
	Spring	CIS252/352 Programming Language III	3	0
		CIS256/356 Object Oriented Prog. Lang. I	3	0
		CIS416 Computer Networks	3	0
		CIS534 (MASTER) Advanced Network Security	3	0
		CIS505 (MASTER) Advanced Information Systems Security	3	0
	Fall	CIS143/243 Data Structures	3	0
		CIS263/363 Software Engineering	3	0
		CIS231/331 System Analysis Method	3	0
		CIS288/488 Web Development	3	0
		CIS286/CIS386 Database Programming	3	0
		CIS403 Graduation Project Proposal	3	0