

Shamim Yousefi



Assistant Professor, Department of Computer Engineering, University of Mohaghegh Ardabili, Ardabil (UMA)

Date of birth: August 1, 1991

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Languages

- Azari (Mother tongue)
- Turkish
- English
- Persian

Hobbies

- Aerobic
- Meditation
- Cooking
- Travelling

Summary

Shamim Yousefi received her BS in Information Technology Engineering, as well as her MSc and Ph.D. degrees in Computer Engineering from the University of Tabriz. Currently, she is serving as an Assistant Professor in the Department of Computer Engineering at the University of Mohaghegh Ardabili, where she is dedicated to advancing research and education in the field of computer engineering.

Additionally, she holds the position of Chairman of the Board at ArkanEng company. Her research interests encompass Artificial Intelligence, Internet of Things (IoT), Wireless Sensor Networks, Machine Learning, and Optimization Algorithms.

Experience

- ✚ **Assistant Professor at University of Mohaghegh Ardabili**
 - May 2022 – Present
- ✚ **University Lecturer**
 - University of Mohaghegh Ardabili - 2020 to 2022
 - University of Tabriz - 2016 – 2020
- ✚ **Chairman of the Board of ArkanEng Co. (Iran)**
 - Sep 2020 – Present
- ✚ **Website Manager of the Engineering Departments at University of Mohaghegh Ardabili**
 - 2023 – Present
- ✚ **Content Production**
 - 2016 – 2020

Certifications

- ✚ Teaching and learning methods, Ministry of Science and Research of Iran, 2023

Education

Bachelor of Science: **Information Technology Engineering** - University of Tabriz

- Total course average: 17.59 (from 20)
- Thesis Title: **Designing Graphic Games Using C # Multimedia Libraries**

Master's degree: **Computer Engineering (Software)** - University of Tabriz

- Total course average: 18.11 (from 20)
- Thesis title: **Providing an efficient method for object detection in visual sensor networks**
- Master's thesis supervised by Dr. Seyed Hadi Aghdasi

PhD: **Computer Engineering (Artificial Intelligence and Robotics)** - University of Tabriz

- Total course average: 19.63 (from 20)
- Thesis Title: **Presenting an Optimal Model for Mobile Agent Route Planning Using Intelligent Clustering and Markov Decision Making Process in IoT (Case Study: Health Monitoring Systems)**
- Ph.D. thesis supervised by Dr. Farnaz Derakhshan and advised by Dr. Seyed Hadi Aghdasi

Journals

- [1] Samad Najjar-Ghabel, **Shamim Yousefi**, "Enhancing Performance of Face Detection in Visual Sensor Networks with a Dynamic-based Approach," *Wireless Personal Communications*, 2017, Volume 97, Issue 4, pp. 6151-6166, [DOI: <http://dx.doi.org/10.1007/s11277-017-4832-9>].
- [2] Leila Habibpour, **Shamim Yousefi**, Mina Zolfi Lighvan, Hadi S. Aghdasi, "1D Chaos-based image encryption acceleration by using GPU," *Indian Journal of Science and Technology*, 2016, Volume 9, Issue 6, [DOI: <http://dx.doi.org/10.17485/ijst/2016/v9i6/72651>].
- [3] **Shamim Yousefi**, Samad Najjar-Ghabel, Leyli Mohammad Khanli, "Modeling Causal Consistency in a Distributed Shared Memory Using Hierarchical Colored Petri Net," *Indian Journal of Science and Technology*, 2015, Volume 8, Issue 33, [DOI: <http://dx.doi.org/10.17485/ijst/2015/v8i33/75502>].
- [4] **Shamim Yousefi**, Samad Najjar-Ghabel, "A Survey on Object Detection Methods in Visual Sensor Networks", *International Journal of Advanced Smart Sensor Network Systems (IJASSN)*, 2015, [DOI: <http://dx.doi.org/10.5121/ijassn.2016.6201>].
- [5] Samad Najjar-Ghabel, **Shamim Yousefi**, Leili Farzinvash, "Reliable data gathering in the internet of things using artificial bee colony", *Turkish Journal of Electrical Engineering & Computer Sciences (Turk J Elec Eng & Comp Sci)*, 2018 (Accepted 15.04.2018), [DOI: <http://dx.doi.org/10.3906/elk-1801-100> (This number will become active after the manuscript has been selected for inclusion in an issue)].
- [6] Hadi Aghdasi, **Shamim Yousefi**, "Enhancing lifetime of visual sensor networks with a preprocessing-based multi-face detection method," *Wireless Networks*, 2017, pp. 1-13, [DOI: <https://doi.org/10.1007/s11276-017-1451-z>].
- [7] Farnaz Derakhshan, **Shamim Yousefi**, "A review on the applications of multiagent systems in wireless sensor networks." *International Journal of Distributed Sensor Networks* 15, no. 5 (2019): 1550147719850767, [DOI: <https://doi.org/10.1177/1550147719850767>].
- [8] **Shamim Yousefi**, Farnaz Derakhshan, "MultiAgent Face Detection (MAFD): A Multiagent System for Enhancing the Performance of Object Detection in Wireless Multimedia Sensor Networks." *Adhoc & Sensor Wireless Networks* 44 (2019).
- [9] **Shamim Yousefi**, Farnaz Derakhshan, Hadis Karimipour, Hadi S. Aghdasi, "An efficient route planning model for mobile agents on the internet of things using Markov decision process." *Ad Hoc Networks* 98 (2020): 102053 [DOI: <https://doi.org/10.1016/j.adhoc.2019.102053>].
- [10] **Shamim Yousefi**, Farnaz Derakhshan, Hadi S. Aghdasi, Hadis Karimipour, "An energy-efficient artificial bee colony-based clustering in the internet of things." *Computers & Electrical Engineering* 86 (2020): 106733 [DOI: <https://doi.org/10.1016/j.compeleceng.2020.106733>].
- [11] **Shamim Yousefi**, Hadis Karimipour, and Farnaz Derakhshan. "Data Aggregation Mechanisms on the Internet of Things: A Systematic Literature Review." *Internet of Things* (2021): 100427 [DOI: <https://doi.org/10.1016/j.iot.2021.100427>].
- [12] **Shamim Yousefi**, Samad Najjar-Ghabel, "Automatic Lung Diseases Identification using Discrete Cosine Transform-based Features in Radiography Images", *Journal of Information and Communication Technology (JICT)*, 2022.
- [13] **Shamim Yousefi**, Samad Najjar-Ghabel, Ramin Danehchin, Shahab S. Band, Chung-Chian Hsu, and Amir Mosavi. "Automatic melanoma detection using discrete cosine transform features and metadata on dermoscopic images." *Journal of King Saud University-Computer and Information Sciences* 36, no. 2 (2024): 101944 [DOI: <https://doi.org/10.1016/j.jksuci.2024.101944>].

Conferences

- [1] Samad Najjar-Ghabel, **Shamim Yousefi**, Mina Zolfy Lighvan, "A high speed implementation counter mode cryptography using hardware parallelism," in *Information and Knowledge Technology (IKT)*, Hamadan, Iran, 2016, [indexed in IEEE] [DOI: <https://doi.org/10.1109/IKT.2016.7777787>].
- [2] **Shamim Yousefi**, Hadi Aghdasi, "Energy aware multi-object detection method in visual sensor network," In Computer and Knowledge Engineering (ICCKE), 2015 5th International Conference on, pp. 48-53. IEEE, 2015, [DOI: <https://doi.org/10.1109/ICCKE.2015.7365860>].
- [3] Farnaz Derakhshan, **Shamim Yousefi**, "A multi-agent system for enhancing lifetime of wireless multi-media sensor networks," In ICCIEA 2017: 19th International Conference on Computational Intelligence and Engineering Applications, Amsterdam, The Netherlands, 2017.
- [4] **Shamim Yousefi**, Samad Najjar-Ghabel, L. Farzinvasht, "High Speed Image Encryption Using Network on Chip," in 2nd International Conference on knowledge-based researcher in computer engineering and information technology, Tehran, Iran, 2017.
- [5] **Shamim Yousefi**, Farnaz Derakhshan, and Ayub Bokani. "Mobile Agents for Route Planning in Internet of Things Using Markov Decision Process." 2018 IEEE International Conference on Smart Energy Grid Engineering (SEGE). IEEE, 2018 [DOI: [10.1109/SEGE.2018.8499517](https://doi.org/10.1109/SEGE.2018.8499517)].
- [6] **Shamim Yousefi**, Farnaz Derakhshan, Hadis Karimipour, "Artificial Bee Colony-Based Routing for Mobile Agents on the Internet of Things," In 2020 IEEE Electric Power and Energy Conference (EPEC) (pp. 1-5) [DOI: [10.1109/EPEC48502.2020.9320053](https://doi.org/10.1109/EPEC48502.2020.9320053)].
- [7] **Sh. Yousefi**, S. Najjar-Ghabel, Hamidreza Shafaei, "A Technical Analysis and Practical Implementation of Machine Learning Algorithms for Predicting Survival in Breast Cancer Patients" in 2024 9th International Conference on Computer Science and Engineering (UBMK), Antalya, Turkey, 2024 [DOI: <https://doi.org/10.1109/UBMK63289.2024.10773521>].
- [8] Samad Najjar-Ghabel, **Shamim Yousefi**, Payam Habibi, "Comparative Analysis and Practical Implementation of Machine Learning Algorithms for Phishing Website Detection" in 2024 9th International Conference on Computer Science and Engineering (UBMK), Antalya, Turkey, 2024 [DOI: <https://doi.org/10.1109/UBMK63289.2024.10773479>].

Book

- Shamim Yousefi**, Farnaz Derakhshan, Hadis Karimipour, "Applications of big data analytics and machine learning in the internet of things." In Handbook of Big Data Privacy, pp. 77-108. Springer, Cham, 2020 [DOI: https://doi.org/10.1007/978-3-030-38557-6_5].
- Samad Najjar-Ghabel, **Shamim Yosefi**, Hadis KarimiPour, "Blockchain Applications in the Industrial Internet of Things", Springer Book: AI-Enabled Threat Detection and Security Analysis for Industrial IoT (Springer), 2021. DOI: https://doi.org/10.1007/978-3-030-76613-9_4

Awards and Honors

- ✚ **Top Student (MSc, PhD)**
 - First rank at University of Tabriz
- ✚ **Academic talent award of National Elite Foundation (3 years)**
- ✚ **The top graduate of the National Elite Foundation**
- ✚ **Recruitment of Faculty through the National Elite Foundation**
- ✚ **Talented members of University of Tabriz**

Teaching Experience

- Programming
- Artificial Intelligence
- Evolutionary Computing
- Operating System
- Discrete Mathematics
- Theory of Language and Automata
- Programming
- Logic Circuit
- Management Information System

Other Skills

- Team Working (Excellent)
- Scientific Research (Excellent)
- Scientific Paper Writing (Excellent)
- Matlab programming (Excellent)
- C/C++ programming (Excellent)
- C# programming (Excellent)
- Python programming (Excellent)
- Mendeley app (<https://www.mendeley.com/>)
- Microsoft Word (Excellent)