



Imam Reza International University

Faculty Member's CV

Nazbanoo Farzaneh, PhD

**Assistant Professor of Computer Engineering, Engineering Department,
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Palestine Sq., Mashhad, Razavi Khorasan, Iran.

Photo

Education

Ferdowsi university of Mashhad (2008-2014)

PhD, Computer Engineering

Thesis Title: Congestion control based on multiple resource management in multi-class wireless networks

Ferdowsi university of Mashhad (2003-2006)

Msc, Computer Engineering

Thesis Title: Virtual Topology Reconfiguration with Protection Method in WDM Networks

Azad University of mashhad (1999-2003)

Bsc. Computer Engineering

Thesis Title: Designing a job information website

Teaching/supervising experience

- Toos Institute of Higher Education of Mashhad (1384-1385)
 - Commercial Systems
- Kharazmi Institute of Higher Education of Mashhad (1385)
 - Information storage and retrieval
- Khavaran Institute of Higher Education of Mashhad (1385)
 - Commuter networks
 - Data Structure
- Azad University of Mashhad(1385-1387)
 - Information storage and retrieval



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- Operating System
- Databases
- Programming
- Salman Institute of Higher Education of Mashhad (1386)
 - Commuter networks
 - Information storage and retrieval
 - Technical Presentation
- Sama Institute of Higher Education of Mashhad (1386)
 - Operating System
 - Information storage and retrieval
- Azad University of Tehran(1388-1392)
 - Information storage and retrieval
 - Algorithm Design and Analysis
 - Database
- Ferdowsi University of Mashhad(1387-1391)
 - Data Structure
 - Programming
- Sajad Institute of Higher Education of Mashhad (1387)
 - Data Structure
- Azad University of Tehran Electronic Campus(1390-1395)
 - Computer Network 1
 - Computer Network 2
 - Data Structure
 - Algorithm Design and Analysis
 - Database
 - Advanced Database
- Imam Reza International University of Mashhad(1392-1403)
 - Undergraduate Courses**
 - Computer Network
 - Data Structure
 - Technical Presentation
 - Operating System
 - Data communication
 - Internet of things
 - Graduate Courses**
 - Advanced operating System
 - Advanced computer networks
 - Devising and delivering interactive teaching sessions
 - Game theory
 - Computer Performance Evaluation

Publications

Books



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1. N.farzaneh, et all, "Cloud computing: a practical approach", Translation, Ferdows Institute of Higher Education ,2022.
2. M. nikkhah, N. farzaneh, "Applied acoustic emission test", Translation, Shahroos University, 2022.

Journal papers

1. N. Farzaneh, R. Monsefi, M.H. Yaghmaee Moghadam and A. Mohajerzade, "A Novel AQM Support Congestion Control Protocol for IP based Networks", Telecommunication Systems Journal(ISI), 2013, 52(1), pp: 229-244, DOI 10.1007/s11235-011-9559-4.
2. N. Farzaneh, M.H. Yaghmaee Moghadam, "An Adaptive Congestion Alleviating Protocol for Healthcare Applications in Wireless Body Sensor Networks: Learning Automata Approach" AJSR journal, 44(1), pp: 31-41, 2012
3. N. Farzaneh, M.H. Yaghmaee Moghadam, D. Adjeroh "A Prioritization based Congestion Control Protocol for Healthcare Monitoring Application in Wireless Sensor Networks", Wireless Personal Communication Journal (Springer), 2013, 72 (4), pp: 2605-2631, DOI 10.1007/s11277-013-1169-x.
4. N. Farzaneh, M.H. Yaghmaee Moghadam, "An Adaptive Competitive Resource Control Protocol for Alleviating Congestion in Wireless Sensor Networks: An Evolutionary Game Theory Approach", Wireless Personal Communication Journal (Springer), 2015, Volume 82, Issue 1, pp 123-142.
5. M Nikkhah, MA Ghasvareh, N Farzaneh Bahalgardi, "Risk management in urban tunnels using methods of game theory and multi-criteria decision-making", Journal of Mining and Environment 10 (3), 597-611, 2019
6. F Zahedi, N Farzaneh, "An evolutionary game theory–based security model in vehicular ad hoc networks", International Journal of Communication Systems 33 (6), e4290, 2020
7. O Shafaiy, N Farzaneh, "Smart speed advisory system for drivers with priority assignment for smart city", International Journal of Sensor Networks 36 (2), 68-78, 2021
8. N Farzaneh, IRCTGP:" A Novel Intra-node Resource Control Protocol Based on Traffic Priority and Evolutionary Games Theory for Wireless Sensor Networks", Wireless Personal Communications, 2021
9. D Behzad, N Farzaneh, "A novel trust management method to preserve privacy in vehicular ad-hoc networks", Peer-to-Peer Networking and Applications 14 (3), 1118-1131, 2021
10. N Farzaneh, R Hoseini, "Confronting DDoS Attacks in Software-Defined Wireless Sensor Networks based on Evidence Theory", Journal of Information Systems and Telecommunication (JIST) 1 (33), 25, 2021
11. Saeede Zeinalian, Nazbanoo Farzaneh, "A Multi-Criteria On-Street Parking Recommender System based on PSO algorithm", Journal of Iranian Association of Electrical and Electronics Engineers, 2021
12. N Mehdizadeh, N Farzaneh, "An Evidence Theory based Approach in Detecting Malicious Controller in the Multi-Controller Software-defined Internet of Things Network" ., Adhoc & Sensor Wireless Networks 51 (4), 2022



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13. J Barazande, N Farzaneh, *WSA MLP: "Water Strider Algorithm and Artificial Neural Network-based Activity Detection Method in Smart Homes"*, Journal of AI and Data Mining 10 (1), 1-13, 2022
14. K Behravan, N Farzaneh, M Jahanshahi, SAH Seno, *"A comprehensive survey on using fog computing in vehicular networks"*, Vehicular Communications, 100604, 2023

Research skills

- Computer Networks
- Internet of Things (Smart city)
- Wireless sensor networks (transport and routing protocols)
- Fuzzy systems and neural networks.
- Optimization problems
- Reinforcement learning & Learning automata
- Queuing theory
- Game theory

Conferences and presentations

1. نیکخواه. م، احمدی. م، فرزانه. ن. " کاربرد شبکه عصبی در پیش بینی خرج ویژه الگوی آتشباری تونل" پذیرفته شده در چهارمین همایش بین المللی مکانیک خاک و ژئو تکنیک تهران. 1389
2. جمیله برازنده، نازیانو فرزانه، "شناسایی فعالیت در خانه های هوشمند مبتنی بر شبکه عصبی مصنوعی و الگوریتم بهینه سازی پروانه"، چهارمین کنفرانس بین المللی شهرهای هوشمند، اینترنت اشیا و کاربردها
3. N. Farzaneh, M.H. Yaghmaee Moghadam, "*Virtual topology reconfiguration with protection method in WDM network*", APCC Conference, 2006.
4. N. Farzaneh, M.H. Yaghmaee Moghadam, "*Virtual Topology Reconfiguration of WDM Optical Networks using Fuzzy Method*", IST Conference, 2008.
5. N. Farzaneh, M.H. Yaghmaee Moghadam, "*Priority-based Congestion Control with Active Queue Management Method for Wireless Multimedia Sensor Networks*", Accepted in ICUMT, Russia, 2009.
6. N. Farzaneh, M.H. Yaghmaee Moghadam, "*Joint Active Queue Management and Congestion Control Protocol for Healthcare Applications in Wireless Body Sensor Networks*", ICOST. 2011.
7. A.H. Mohajerzadeh, R. Monsefi, M.H. Yaghmaee, N. Farzaneh, "*An Efficient and Class based Active Queue Management for Next Generation Networks*", 5'th International Symposium on Telecommunications, 2011.
8. N. Farzaneh, R. Monsefi, M.H. Yaghmaee, A.H. Mohajerzadeh, "*An Improvement on TCP Congestion Control Protocol for Next Generation Networks*", ICNCC Conference, 2011.
9. N. Farzaneh, M.H. Yaghmaee, "*Probability base Hop Selection Approach for Resource Control in Wireless Sensor Networks*", 6'th International Symposium on Telecommunications (IST'2012), pp. 703-708, 2012.



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10. Fatemeh Banaee, M.H. Yaghmaee, N. Farzaneh, " *A Blocking Probability Reduction Method in Path Computation Schemes for Inter Domain Networks* ", 6'th International Symposium on Telecommunications (IST'2012), pp. 782-788, 2012.
11. Fatemeh Banaee, M.H. Yaghmaee, N. Farzaneh, " *Constraint-based Path selection algorithms for Minimizing Blockage in Multi Domain Networks* ", 6'th International Symposium on Telecommunications (IST'2012), pp. 760-765, 2012.
12. N. Farzaneh, M.H. Yaghmaee Moghadam, " *DRCP: A Dynamic Resource Control Protocol for Alleviating Congestion* ", 7'th International Symposium on Telecommunications (IST'2014).
13. A Alzeyadi, N Farzaneh, " *A novel energy-aware scheduling and load-balancing technique based on fog computing* ", 2019 9th International Conference on Computer and Knowledge Engineering, 2019
14. H Mosadegh, N Farzaneh, " *SCDS: A Secure Clustering Protocol Using Dempster-Shafer Theory for VANET in Smart City* ", 2021 11th International Conference on Computer Engineering and Knowledge, 2021
15. M Araghchi, N Farzaneh, " *Identification of Botnets and Nodes Attacking Smart Cities by Majority Voting Mechanism and Feature Selection* ", 2023 13th International Conference on Computer and Knowledge Engineering, 2023

Awards

- Best Researcher in Engineering Faculty of Ferdowsi University(2010)
- Best Master's degree student entering 2012

Research Project

1. 2004: Iran Telecommunication Research Center (ITRC), " Evaluation of using GMPLS in Iran telecommunication network ", Colleague
2. 2009-2010: Iran Telecommunication Research Center (ITRC)," Establishment and Set up the IP-PBX Devices Type Approval Laboratory", Colleague
3. Design of dam data management software "Paesh Dam", 2023,

Scientific Works

- Director of the Department of Computer Engineering at Imam Reza International University(2021-2023)