

# CURRICULUM VITAE



## PERSONAL INFORMATION

**NAME** Saeid  
**LAST NAME** Pashazadeh

## AFFILIATION

Professor of Department of Information Technology of Faculty of Electrical & Computer Engineering, University of Tabriz, Tabriz, Iran.

## CONTACT INFORMATION

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## EDUCATION

1. Ph.D. in Computer Engineering (Software), Computer Engineering Department, Iran University of Science and Technology, Tehran, Iran, September 22, 2004-September 26, 2010.  
Thesis Title: "Priority-Based Quality of Service Support at Middleware Level for Target Tracking in Wireless Sensor Networks," Supervisor: Prof. Mohsen Sharifi, G.P.A. 18.25 from 20, First Rank.
2. M.Sc. in Computer Engineering (Software), Computer Engineering Department, Iran University of Science and Technology, Tehran, Iran, September 22, 1996-February 20, 1999. Thesis Title: "Simulation of Orthodontic Treatment Using Numerical Analysis," Supervisor: Prof. Mohsen Sharifi, G.P.A. 17.36 from 20, First Rank (1/12).
3. B.Sc. in Computer Engineering (Software), Computer Engineering Department, Sharif University of Technology, Tehran, Iran, September 23, 1990-August 23, 1995. Thesis Title: "Design and Implementation of Computer-Aided Tools for Learning Recursive Programming," Supervisor: Prof. Mohammad Ghodsi.

## JOB EXPERIENCES

1. Full professor of Faculty of Electrical & Computer Engineering, University of Tabriz, Tabriz, Iran, 2021 – continued.
2. Associate professor of Faculty of Electrical & Computer Engineering, University of Tabriz, Tabriz, Iran, 2015 – 2021.
3. Assistant professor of Faculty of Electrical & Computer Engineering, University of Tabriz, Tabriz, Iran, 2010 – 2015.
4. Official expert of justice in computer and information technology (software and hardware), 2020 to the present.

5. Member of the promotion committee of the Department of Information Technology of the Faculty of Electrical and Computer Engineering, The University of Tabriz, from 2005 to the present.
6. Adjunct Professor of Islamic Azad University, Science and Research Branch of Tabriz, Iran, 2010 – 2013.
7. Invited Lecturer of Faculty of Electrical & Computer Engineering, University of Tabriz, Tabriz, Iran, 2005 - 2010.
8. Lecturer of University of Applied Science and Technology, Tabriz Branches, Tabriz, Iran, 1999-2013.
9. Academic staff (Lecturer) in Electrical engineering department of Sahand University of Technology, Tabriz, Iran, 1999 – 2004.
10. Lecturer in Computer engineering department of Iran University of Science and Technology, Tehran, Iran, 2003-2004.
11. Invited Lecturer of Islamic Azad University of Tabriz Branch, Tabriz, Iran, 1998-2003.
12. Project manager in Shahin Electronics Corporation, a branch of Navid Tech. Corporation, Tehran, Iran, 1995-1997.
13. System analyst in abroad mercantile division of commerce ministry, Tehran, Iran, 1995-1996.
14. Research assistant at the international earthquake engineering and seismology institute, Tehran, Iran, 1993-1994.

## **ADMINISTRATIVE AND MANAGEMENT**

- Head of Information Technology Department, Faculty of Electrical & Computer Engineering, University of Tabriz, Tabriz, Iran, from June 2, 2011–November 12, 2013.
- Head of Information Technology Department, Faculty of Electrical & Computer Engineering, University of Tabriz, Tabriz, Iran, from December 8, 2010, to June 2, 2011.
- The administrator of the 18<sup>th</sup> Student Olympiad of Computer Engineering in Region 4 in the Computer Engineering Field, Faculty of Electrical & Computer Engineering, University of Tabriz, Tabriz, Iran, April 2013.
- The administrator of the 17<sup>th</sup> Student Olympiad of Computer Engineering in Region 4 in the Computer Engineering Field, Faculty of Electrical & Computer Engineering, University of Tabriz, Tabriz, Iran, April 26-27, 2012.
- Member of Scientific and Executive Board of 9<sup>th</sup> International ISC Conference on Information Security and Cryptology (ISCISC'12) 2012.
- Member of Cyber Defense Committee, Faculty of Electrical & Computer Engineering, University of Tabriz, Tabriz, Iran, May 12, 2012 – 2016.
- Member of Scientific Board of 2<sup>nd</sup> Seminar of Information Age with Security and Resource Management Approach, Faculty of Electrical & Computer Engineering, University of Tabriz, Tabriz, Iran, November 24-25, 2011.
- Member of Scientific Board of 3<sup>rd</sup> Seminar of Information Age with New Technologies Approach, Faculty of Electrical & Computer Engineering, University of Tabriz, Tabriz, Iran, November 11-12, 2010.

## **EDITORIAL BOARD OF JOURNALS**

- Member of Editorial Board of Journal of Electrical Engineering, Faculty of Electrical & Computer Engineering, University of Tabriz, Tabriz, Iran, from November 8, 2011 – 2016.
- Member of Editorial Board of the International Journal of Computer Science, Engineering and Information Technology (IJCEIT), from October 2012 – 2017.
- Member of Editorial Board of the International Journal in Foundations of Computer Science & Technology (IJFCST) from November 2012 – 2017.
- Member of the Editorial Board of the International Journal of Information and Network Security (IJINS) from November 2012 – 2017.

## **AWARDS AND HONORS**

1. Ph.D. Scholarship, Ministry of Science Research and Technology, Iran, 2004-2008.
2. Ph.D. Thesis grant, Iran Telecommunication Research Center (ITRC) under contract number 8836, Iran, 2006-2008
3. First Rank in M.Sc., Iran University of Science and Technology, Iran, 1998.

## RESEARCH AND STUDY INTERESTS

1. Analysis, Design, and Modeling of Distributed Protocols and Systems
2. Wireless Sensor and Actuator Networks
3. Software Engineering
4. Internet of Things
5. Artificial Intelligence
6. Stochastic Process
7. Computer Security

## JOURNAL PAPERS

1. M. Ipchi Sheshgelani, S. Pashazadeh, P. Salehpoor, "Cooperative hybrid consensus with function optimization for blockchain," *Cluster Computing*, 2022, doi:10.1007/s10586-022-03746-5.
2. S. H. Seyed Dizaji, S. Pashazadeh, and J. Musevi Niya, "A Comparative Study of Some Point Process Models for Dynamic Networks," *Complexity*, vol. 2022, Article ID 1616116, p. 21, Sep. 2022, doi: 10.1155/2022/1616116.
3. S. H. Seyed Dizaji, S. Pashazadeh, and J. Musevi Niya, "Wasserstein generative adversarial networks for modeling marked events," *Journal of Supercomputing*, Aug. 2022, doi: 10.1007/s11227-022-04781-0.
4. A. Taghinezhad-Niar, S. Pashazadeh, and J. Taheri, "Energy-efficient workflow scheduling with budget-deadline constraints for cloud," *Computing*, Jan. 2022, doi: 10.1007/s00607-021-01030-9
5. N. S. Soleimani Zakeri, S. Pashazadeh, and H. MotieGhader, "Drug Repurposing for Alzheimer's Disease Based on Protein-Protein Interaction Network," *Biomed Research International*, Oct. 2021, doi: 10.1155/2021/1280237.
6. R. Soltani and S. Pashazadeh, "A Lightweight Improvement of PeDAAC Protocol for 6LoWPAN in the Internet of Things," *Multimedia Tools and Applications*, vol. 80, no. 20, pp. 31467–31486, August 26, 2021, doi: 10.1007/s11042-021-11236-w.
7. A. Taghinezhad-Niar, S. Pashazadeh, and J. Taheri, "Workflow scheduling of scientific workflows under simultaneous deadline and budget constraints," *Cluster Computing*, vol. 24, pp. 3449–3467 2021, doi:10.1007/s10586-021-03314-3.
8. S. S. Tabrizi, S. Pashazadeh, and V. Javani, "A Deep Learning Approach for Table Tennis Forehand Stroke Evaluation System Using an IMU Sensor," *Computational Intelligence and Neuroscience*, vol. 2021, Article ID 5584756, 15 pages, 2021, doi: 10.1155/2021/5584756.
9. S. Pashazadeh and L. N. Tazeh-Kand, "A Simple Sum of Products Formula to Compute the Reliability of the KooN System," *IEEE Access*, vol. 9, pp. 31161-31169, 2021, doi: 10.1109/ACCESS.2021.3059888.
10. M. Sokouti, R. Sadeghi, S. Pashazadeh, S. Eslami, M. Sokouti, M. Ghojzadeh, and B. Sokouti, "Meta-MUMS COVID-19 web server: an online daily monitoring server for comparative and cumulative epidemiological analysis," *J Public Health (Berl.)*, 2021, doi: 10.1007/s10389-020-01433-6.
11. M. Nazari and S. Pashazadeh, "Real-time adaptive fuzzy density clustering for multi-target data association," *Intelligent Data Analysis*, vol. 25, no. 1, pp. 5-19, January 26, 2021, doi: 10.3233/IDA-194978.
12. M. Sokouti, R. Sadeghi, S. Pashazadeh, S. Eslami, M. Sokouti, M. Ghojzadeh, and B. Sokouti, "Meta-MUMS DTA: Implementation, validation, and application of diagnostic test accuracy software for meta-analysis in radiology," *Clinical Epidemiology and Global Health*, vol. 9, Jan.–Mar. 2021, pp. 310-325, doi: 10.1016/j.cegh.2020.10.004.
13. M. Sokouti, R. Sadeghi, S. Pashazadeh, S. Eslami, M. Sokouti, M. Ghojzadeh, and B. Sokouti, "Investigation of diagnostic value of artificial intelligence systems in the diagnosis of breast cancer based on histopathological images using meta-MUMS DTA tool," *Epidemiology Biostatistics and Public Health*, vol. 17, no. 2, 2020, pp. 1-13, doi: 10.2427/13313.
14. S. S. Tabrizi, S. Pashazadeh, and V. Javani, "Data acquired by a single object sensor for the detection and quality evaluation of table tennis forehand strokes," *Data in Brief*, vol. 33, Dec. 2020, pp. 106504, doi: 10.1016/j.dib.2020.106504.

15. S. S. Tabrizi, S. Pashazadeh, and V. Javani, "Comparative Study of Table Tennis Forehand Strokes Classification Using Deep Learning and SVM," *IEEE Sensors Journal*, vol. 20, no. 22, Nov. 2020, pp. 13552-13561, doi: 10.1109/JSEN.2020.3005443.
16. N. S. Soleimani Zakeri, S. Pashazadeh, and H. MotieGhader, "Gene biomarker discovery at different stages of Alzheimer using gene co-expression network approach," *Scientific Reports*, vol. 10, no. 1, Article number: 12210, 2020/07/22, 2020, doi: 10.1038/s41598-020-69249-8.
17. M. Sokouti, R. Sadeghi, S. Pashazadeh, S. Eslami, M. Sokouti, M. Ghojzadeh, and B. Sokouti, "Comparative Global Epidemiological Investigation of SARS-CoV-2 and SARS-CoV Diseases Using Meta-MUMS Tool Through Incidence, Mortality, and Recovery Rates," *Archives of Medical Research*, vol. 51, no. 5, 2020, pp. 458-463, doi: 10.1016/j.arcmed.2020.04.005.
18. M. Nazari, S. Pashazadeh, and L. Mohammad-khanli, "An Adaptive Density-Based Fuzzy Clustering Track Association for Distributed Tracking System," *IEEE Access*, vol. 7, no. 1, pp. 135972-135981, 2019, doi: 10.1109/ACCESS.2019.2941184.
19. M. Sokouti, R. Sadeghi, S. Pashazadeh, S. Eslami-HassanAbadi, M. Sokouti, M. Ghojzadeh, and B. Sokouti, "Treating Empyema Thoracis Using Video-assisted Thoracoscopic Surgery and Open Decortication Procedures: a Systematic Review and Meta-analysis by Meta-mums Tool," *Archives of Medical Science*, vol. 15, no. 4, pp. 912-935, 2018, doi: 10.5114/aoms.2018.77723.
20. M. Sokouti, R. Sadeghi, S. Pashazadeh, S. Eslami-HassanAbadi, M. Sokouti, M. Ghojzadeh, and B. Sokouti, "A Systematic Review and Meta-analysis on the Treatment of Liver Hydatid Cyst Using Meta-MUMS Tool: Comparing PAIR and Laparoscopic Procedures", *Archives of Medical Science*, vol. 15, no. 2, pp. 284-308, 2018, doi: 10.5114/aoms.2018.73344.
21. M. Sokouti, R. Sadeghi, S. Pashazadeh, S. Eslami-HassanAbadi, M. Sokouti, M. Ghojzadeh and B. Sokouti, "Experience of a New Dedicated Meta-analysis Tool in Systematic Review and Meta-Analysis on Training Performances of Virtual Reality Bronchoscopy Simulation," *Journal of Informatics and Mathematical Sciences*, vol. 10, no. 1-2, pp. 119-132, 2018, doi: 10.26713/jims.v10i1-2.513.
22. M. Sokouti, R. Sadeghi, S. Pashazadeh, S. Eslami-HassanAbadi, M. Sokouti, P. Rezaei-hachesu, et al., "A Systematic Review and Meta-analysis on the Treatment of Liver Hydatid Cyst: Comparing Laparoscopic and Open Surgeries," *Arab Journal of Gastroenterology*, vol. 18, no. 3, pp. 127-135, 2017/09/01/ 2017, doi: 10.1016/j.ajg.2017.09.010.
23. M. Sokouti, R. Sadeghi, S. Pashazadeh, S. Eslami-HassanAbadi, M. Ghojzadeh, and B. Sokouti, "Most Accurate Non-linear Approximation of Standard Normal Distribution Integral Based on Artificial Neural Networks," *Suranaree Journal of Science and Technology*, vol. 24, no. 3, pp.263-280, Jul.-Sep. 2017.
24. M. Sokouti, P. Rezaei, M. Ghojzadeh, M. Sokouti, R. Sadeghi, S. Pashazadeh, and B. Sokouti, "Systematic Review and Meta-analysis on The Study of Bronchoscopy Training Based on Visual Reality Simulation," *BMJ Open*, vol. 7, February 8, 2017, doi: 10.1136/bmjopen-2016-015415.195.
25. S. Pashazadeh, "Analytic Study of Two Movement Strategies of Actors in Wireless Sensor and Actor Networks," *Tabriz Journal of Electrical Eng.*, vol. 46, no.4, pp. 49-64, Winter 2016. (In Persian)
26. S. Pashazadeh, "Automatic Analysis of Computer Game Using Colored Petri Net," *Tabriz Journal of Electrical Eng.*, vol. 46, no. 2 (76), pp. 37-48, Summer 2016. (In Persian)
27. S. Najjar Ghabel and S. Pashazadeh, "Modeling Automatic Generator of Optimal and Minimal Covers of Functional Dependency," *Indian Journal of Science and Technology*, vol. 8, no. 35, Dec. 2015, doi: 10.17485/ijst/2015/v8i35/74679.
28. S. Pashazadeh and M. Rahimi, "Modeling Timestamp Ordering Method Using Colored Petri Net," *Indian Journal of Science and Technology*, vol. 8, no. 35, Dec. 2015, doi: 10.17485/ijst/2015/v8i35/77633.
29. N. S. Soleimani Zakeri and S. Pashazadeh, "Application of neural network based on genetic algorithm in predicting magnitude of earthquake in North Tabriz Fault (NW Iran)," *Current Science*, vol. 109, no. 9, pp. 1715-1722, November 10, 2015.
30. A. Rahimi, L. Mohammad Khanli, and S. Pashazadeh, "Energy Efficient Virtual Machine Placement Algorithm with Balanced Resource Utilization Based on Priority of Resources," *Computer Engineering and Applications (ComEngApp) Journal*, vol. 4, no. 2, pp. 107-118, June 20. 2015, doi: 10.18495/COMENGAPP.V4I2.134.
31. N. S. Zakeri and S. Pashazadeh, "Analyzing Optimal Number of Clusters for Seismic Data of Tabriz North Fault During 1950-2012 Using Various Clustering Algorithms," *Applied Mathematics in*

- Engineering, Management and Technology (AMIEMT)*, The special issue in Management and Technology, pp. 799-809, Sep. 2014.
- 32.S. Pashazadeh and M. Sharifi, "A New Method for Weight Assignment in Multi-Criteria Decision Making Based on Linear Algebra," *Applied Mathematics in Engineering, Management and Technology (AMIEMT)*, The special issue in Management and Technology, pp. 375-385, Sep. 2014.
  - 33.N. S. Zakeri and S. Pashazadeh, "Classification of Databases and Methods for Seismic Data Analysis and Earthquake Prediction," *International Journal on Technical and Physical Problems of Engineering (IJTPE)*, vol. 6, no. 1, Issue. 18, pp. 18-26, Mar. 2014.
  - 34.S. Pashazadeh and S. Saeedvand, "Modelling of Walking Humanoid Robot with Capability of Floor Detection and Dynamic Balancing Using Colored Petri Net," *International Journal in Foundations of Computer Science & Technology (IJFCST)*, vol. 4, no. 2, pp. 1-10, Mar. 2014, doi:10.5121/ijfcst.2014.4201.
  - 35.S. Pashazadeh and E. Abdolrahimi Niyari, "Modeling Enterprise Architecture Using Timed Colored Petri Net: Single Processor Scheduling," *International Journal of Managing Public Sector Information and Communication Technologies (IJMPICT)*, vol. 5, no. 1, pp. 1-13, Mar. 2014, doi: 10.5121/ijmpict.2014.5101.
  - 36.M. Hatami and S. Pashazadeh, "Improving Results and Performance of Collaborative Filtering-based Recommender Systems using Cuckoo Optimization Algorithm," *International Journal of Computer Applications (IJCA)*, vol. 88, no. 16, pp. 46-51, Feb. 2014, doi: 10.5120/15440-3981.
  - 37.M. Hatami and S. Pashazadeh, "Enhancing Prediction in Collaborative Filtering-Based Recommender System," *International Journal of Computer Science and Engineering (IJCSE)*, vol. 2, no. 1, pp. 48-51, January 31, 2014.
  - 38.S. Pashazadeh and M. Kheyri, "Color Image Segmentation Using Self Organizing Map Artificial Neural Network," *International Journal of Computer & Information Technologies (IJOCIT)*, vol. 1, no. 3, pp. 231-241, Nov. 2013.
  - 39.A. Keshvari Ilkhichi and S. Pashazadeh, "Modelling Kerberos Authentication Protocol Using Colored Petri Net," *International Journal of Information & Network Security (IJINS)*, vol. 2, no. 5, pp. 403-416, Oct. 2013.
  - 40.A. Souri, A. Salehpour, and S. Pashazadeh, "A Novel Cloud Storage System With Support of Sensitive Data Application," *International Journal of Mobile Network Communications & Telematics (IJMNCT)*, Vol. 3, No. 5, pp. 19-27, Oct. 2013.
  - 41.M. Sokouti, B. Sokouti, S. Pashazadeh, M.-R. Feizi-Derakhshi, and S. Haghypour, "Genetic-Based Random Key Generator (GRKG): A New Method for Generating More-Random Keys For One-Time Pad Cryptosystem," *Neural Computing & Applications*, vol. 22, no. 7, pp. 1667-1675, Jun. 2013, doi:10.1007/s00521-011-0799-8.
  - 42.S. Pashazadeh, "Modeling and Verification of Access Rights in Take-Grant Protection Model Using Colored Petri Nets", *International Journal of Information & Network Security (IJINS)*, vol. 2, no. 1, pp. 78-90, Feb. 2013.
  - 43.M.-J. Parseh and S. Pashazadeh, "Applying Dynamic Model for Multiple Maneuvering Target Tracking Using Particle Filtering," *International Journal of Information Technology, Control, and Automation (IJITCA)*, vol. 2, no. 4, pp. 37-49, Oct. 2012, doi:10.5121/ijitca.2012.2404.
  - 44.S. Pashazadeh and M. Pashazadeh, "Modeling an Automatic Proof Generator for Functional Dependency Rules Using Colored Petri Net," *International Journal in Foundations of Computer Science & Technology (IJFCST)*, vol. 2, no. 5, pp. 31-47, Sep. 2012.
  - 45.M. J. Heydari and S. Pashazadeh, "Distributed Coverage and Connectivity Preserving Algorithm with Support of Different Sensing Coverage Degrees in 3D Mobile Sensor Actor Networks," *International Journal of Computer Science, Engineering and Information Technology (IJCEIT)*, vol. 2, no. 4, pp. 1-14, Aug. 2012, doi: 10.5121/ijcseit.2012.2401.
  - 46.S. Tafkiki Alamdari, S. Pashazadeh, and H. Mirzamohammadzadeh, "Security Analysis of CARBAC Model in Pervasive Computing Environment Using Colored Petri Net," *Journal of Computing*, vol. 4, no. 7, Jul. 2012, pp. 61-69.
  - 47.M. J. Heydari and S. Pashazadeh, "Connectivity Preserving Distributed Maximizing Coverage Algorithm for Three Dimensional Mobile Sensor Networks," *International Journal of Advanced Research in Computer and Communication Engineering (IJARCCE)*, vol. 1, no. 5, pp. 353-358, Jul. 2012.

- 48.H. Emami, F. Derakhshan, and S. Pashazadeh, "A New Prioritization Method for Conflict Detection and Resolution in Air Traffic Management," *Journal of Emerging Trends in Computing and Information Sciences*, vol. 3, no. 7, pp. 1042-1049, Jul. 2012.
- 49.S. Pashazadeh, "Modeling and Verification of Deadlock Potentials of a Concurrency Control Mechanism in Distributed Databases Using Hierarchical Colored Petri Net," *International Journal of Information and Education Technology (IJJET)*, vol. 2, no. 2, pp.77-82, Apr. 2012, doi: 10.7763/IJET.2012.V2.86.
- 50.M. Sokouti; B. Sokouti, S. Pashazadeh, and L. Mohammad Khanli, "FPGA Implementation of Improved Version of the Vigenere Cipher," *Indian Journal of Science and Technology*, vol. 3, no. 4, pp. 459-462, Apr. 2010.
- 51.S. Pashazadeh and M. Sharifi, "A Geometric Modeling Approach to Determining the Best Sensing Coverage for 3-Dimensional Acoustic Target Tracking in Wireless Sensor Networks," *Sensors*, vol. 9, no. 9, pp. 6764-6794, Aug. 2009, doi:10.3390/s90906764.
- 52.M. Sokouti, B. Sokouti, and S. Pashazadeh "An Approach in Improving Transposition Cipher System," *Indian Journal of Science and Technology*, vol. 2, no. 8, pp. 9-15, Aug. 2009.
- 53.S. Pashazadeh and M. Sharifi, "Determining the Best Sensing Coverage for 2-Dimensional Acoustic Target Tracking," *Sensors*, vol. 9, no. 5, pp. 3405-3436, May 2009, doi: 10.3390/s90503405.

## BOOK CHAPTER

1. N. S. Zakeri and S. Pashazadeh, "Data Mining Techniques on Earthquake Data: Recent Data Mining Approaches," Muhammad Usman, Editor, "*Improving Knowledge Discovery through the Integration of Data Mining Techniques*," IGI Global Publishing, chapter 10, August 2015, pp.183-199, doi: 10.4018/978-1-4666-8513-0.ch010.

## BOOKS

1. S. Pashazadeh and M. Pashazadeh, "Engineering Mathematics," *Akhtar Publishing*, Tabriz, Iran, October 22, 2013, pages: 208, ISBN: 978-964-517-449-9. (in Persian)

## NATIONAL & INTERNATIONAL CONFERENCE PAPERS

1. M.-R. Shakourniya-Naviri and S. Pashazadeh, "Byzantines Consensus Algorithm in Distributed Systems without assumption  $t < n/3$ ," in *6<sup>th</sup> National conference on Distributed Computing and Big Data Processing (DCBDP 2021)*, Tabriz, Iran, March 3, 2021. (In Persian)
2. S. Pashazadeh and L. Namvari, "Investigating the Reliability in Three RAID Storage Models and Effect of Ordering Replicas on Disks," in *6<sup>th</sup> International Reliability and Safety Engineering Conference (IRSEC 2020)*, Shiraz, Iran, Feb. 17-18, 2021.
3. R. A. Ligvan, R. Soitani, and S. Pashazadeh, "Distributed synchronization for charging sensors based on service priority in WSN," in *The 10<sup>th</sup> International Conference on Computer and Knowledge Engineering (ICCKE)*, Mashhad, Iran, Oct. 29-30, 2020, pp. 130-135, doi: 0.1109/ICCKE50421.2020.9303688.
4. Z. Ebadi Ansaroudi and S. Pashazadeh, "Modeling and Formal Verification of the Ticket-based Handoff Authentication Protocol for Wireless Mesh Networks," in *The 16<sup>th</sup> International Symposium on Pervasive Systems, Algorithms and Networks*, Naples, Italy, Sep. 16-20, 2019.
5. S. Pashazadeh and Z. Eghbali, "Formal modelling and performance evaluation of puzzle type computer game using colored petri net," in *4<sup>th</sup> National Conference on Distributed Computing and Big Data Processing (DCBDP04)*, Tabriz, Iran, May. 16, 2018.
6. S. Pashazadeh, L. Namvari, and R. Soltani, "RSS\_RAID a Novel Replicated Storage Schema for RAID System," in *The International Conference on Contemporary Issues In Data Science (CiDas 2019)*, Zanjan, Iran, Mar. 5-8, 2019.
7. M. Nazari and S. Pashazadeh, "Density Clustering Based Data Association Approach for Tracking Multiple Target in Cluttered Environment," *The International Conference on Contemporary Issues In Data Science (CiDas 2019)*, Zanjan, Iran, Mar. 5-8, 2019.
8. S. Pashazadeh and S.-J.-A. Mojaveri, "Modeling, Verification and Evaluation of Multiprocessor Scheduling using Extended CBRLA Algorithm," in *IEEE 4<sup>th</sup> International Conference on Knowledge-Based Engineering and Innovation (KBEI-2017)*, Tehran, Iran, Dec., 22, 2017.

9. Y. Mostafaei and S. Pashazadeh, "An Improved OLSR Routing Protocol for Reducing Packet Loss Ratio in Ad-hoc Networks," in *The Eighth International Conference on Information and Knowledge Technology (IKT2016)*, Hamadan, Iran, Sep. 7-8, 2017, pp. 12-17.
10. A. Taghinezhad and S. Pashazadeh, "Modelling and Analysis of the Monotonic Read Consistent Distributed System using Coloured Petri Net," in *The Eighth International Conference on Information and Knowledge Technology (IKT2016)*, Hamadan, Iran, Sep. 7-8, 2017, pp. 12-17.
11. M. Nazari and S. Pashazadeh, "A Novel Data association algorithm for single target tracking in cluttered environment," in *4<sup>th</sup> international conference on applied research in computer engineering and signal processing*, Tehran, Iran, Dec. 7-8, 2016.
12. S. Ghanbari, S. Pashazadeh, and H. Bevrani, "Evaluate the performance of various data mining techniques in order to validate banking customers," in *9<sup>th</sup> symposium on advances in science and technology*, Mashhad, Iran, December 14, 2014. (In Persian)
13. S. Khalili and S. Pashazadeh, "Classification of Bank Checking Accounts Data Using Decision Tree," in *Second Computer Science Conference on Computer and Information Technology (CCIT2014)*, Tabriz, Iran, Nov. 19-20, 2014. (In Persian)
14. N. S. Zakeri and S. Pashazadeh, "Application of Clustergram and Statistical Methods for Determining Optimal Cluster Number of Non Hierarchical Data of Tabriz Earthquake," in *National Conference on New Idea In Electrical Engineering*, Isfahan, Iran, Nov. 6-7, 2013. (In Persian)
15. S. Sharifi, B. Zamani, S. Pashazadeh, and N. S. Zakeri, "Segmentation of North Tabriz fault by systematic clustering of historical and instrumental seismic data," in *Second International Conference of Environmental Hazards*, Tehran, Iran, Oct. 29-30, 2013. (In Persian)
16. B. Shiri Ionbar and S. Pashazadeh, "Distributed Explosion Management of Marine Mines for Destroying Mobile Targets in Intelligent Mines Ad-hoc Network Using Adaptive Fuzzy Logic," in *13<sup>th</sup> Iranian Conference on Fuzzy Systems (IFSC)*, Qazvin, Iran, Aug. 27-29, 2013.
17. E. V. Arekhloo, S. Pashazadeh, and S. N. Razavi, "Modelling of Mamdani Fuzzy Inference Engine using hierarchical colored Petri nets," in *13<sup>th</sup> Iranian Conference on Fuzzy Systems (IFSC)*, Qazvin, Iran, Aug. 27-29, 2013.
18. S. Pashazadeh and E. Abdollahi-Niyari, "Presenting Model of Hierarchical Single Processor with Non-Preemptive Scheduling for Modeling Enterprise Architecture Using Colored Petri Net," in *11<sup>th</sup> International Management Conference*, Tehran, Iran, March 21, 2013. (In Persian)
19. N. S. Zakeri, S. Pashazadeh, B. Zamani, and S. Sharifi, "Clustering Tabriz Fault Seismic Data Using Data Mining," in *The First National Conference on Urban Construction in the Vicinity of Active Faults (NCCVAF01)*, Tabriz, Iran, Feb. 20-21, 2013 (In Persian).
20. M.-J. Parseh, S. Pashazadeh, and H. Seyedarabi, "Improved Particle Filtering Algorithm For Maneuvering Object Tracking using Deformation Detection," in *2<sup>nd</sup> International eConference on Computer and Knowledge Engineering (ICCKE-2012)*, Mashhad, Iran, Oct. 18-19, 2012, pp. 204-209.
21. B. Sokouti, M. Sokouti, and S. Pashazadeh, "Securing Email Communication in Clinical Practice: Ensuring Real-Person Identification," in *International Conference on Electronic Health (ICEH 2012)*, Tehran, Iran, Nov. 28-29, 2012.
22. F. Nowruzi, M.-A. Balafar, and S. Pashazadeh, "Robust Recognition Against Illumination Variations Based on SIFT," in *5<sup>th</sup> International Conference on Intelligent Robotics and Applications (ICIRA 2012)*, Montreal, QC, Canada, Proceedings, Part III, Lecture Notes in Computer Science, Springer, Oct. 3-5, 2012, pp. 503-511.
23. S. Pashazadeh, M. Zendedel Dizaji, and A. Amiri, "Uncertainty Assessment in Access Control of Pervasive Computing Environments," in *IEEE/OSA/IAPR International Conference on Informatics, Electronics & Vision (ICIEV 2012)*, Dhaka, Bangladesh, May 18-19, 2012, pp. 1174-1179.
24. S. Pashazadeh, "Modeling a Concurrency Control Mechanism in Distributed Databases using Hierarchical Colored Petri Net," in *2012 International Conference on Information and Computer Applications (ICICA 2012)*, IPCSIT vol. 24 (2012) IACSIT Press, Singapore, Hong Kong, China, Feb. 17-18, 2012, pp. 286-289.
25. S. Pashazadeh, "An Approach for QoS Management in WSN," in *2012 International Conference on Information and Computer Applications (ICICA 2012)*, IPCSIT vol. 24 (2012) IACSIT Press, Singapore, Hong Kong, China, Feb. 17-18, 2012, pp. 282-285.

- 26.M.-J. Heydari and S. Pashazadeh, "A Survey of Connectivity Restoration Problem in Wireless Sensor and Actor Networks," in *First CSUT Conference on Computer, Communication and Information Technologies*, University of Tabriz, Tabriz, Iran, Nov. 16-17, 2011.
- 27.S. Pashazadeh, M. Zendedel-Dizaj, and A. Amiri, "Comparison of Access Control Mechanism in Pervasive Computing Environments," in *First CSUT Conference on Computer, Communication and Information Technologies*, University of Tabriz, Tabriz, Iran, Nov. 16-17, 2011.(In Persian)
- 28.S. Pashazadeh, "Two Level Time Synchronization Scheme for Wireless Sensor Networks," in *5<sup>th</sup> International Conference on Application of Information and Communication Technologies (AICT2011)*, Baku, Azerbaijan, Oct. 12-14, 2011, pp. 581-585.
- 29.S. Pashazadeh, "Upper Bound of Time Synchronization Error in Two Dimensional Acoustic Target Localization Using Wireless Sensor Networks," in *5<sup>th</sup> International Conference on Application of Information and Communication Technologies (AICT2011)*, Baku, Azerbaijan, Oct. 12-14, 2011, pp. 475-479.
- 30.S. Pashazadeh, "Modeling Non Functional Requirements in Designing Middleware for Pervasive Healthcare System," in *5<sup>th</sup> International Conference on Application of Information and Communication Technologies (AICT2011)*, Baku, Azerbaijan, Oct. 12-14, 2011, pp. 203-207.
- 31.H.-R. Firoozy-Najafabadi and S. Pashazadeh, "Mobile Police Service in Mobile Government," in *5<sup>th</sup> International Conference on Application of Information and Communication Technologies (AICT2011)*, Baku, Azerbaijan, Oct. 12-14, 2011, pp. 118-122.
- 32.S. Pashazadeh, "Modeling a Resource Management Method Using Hierarchical Colored Petri Nets," in *International eConference on Computer and Knowledge Engineering (ICCKE2011)*, Mashhad, Iran, Oct. 13-14, 2011, pp. 55-60.
- 33.S. Pashazadeh, "Accurate Measurement of Sensing Coverage Degrees in Randomly Distributed Wireless Sensor Networks," in *International eConference on Computer and Knowledge Engineering (ICCKE2011)*, Mashhad, Iran, Oct. 13-14, 2011, pp. 98-103.
- 34.M. Sokouti, B. Sokouti, S. Pashazadeh, and F. Dehghan, "8-bit Improvement of Vigenere Cryptographic Algorithm," in *Second Seminar of Information Age with New Technologies Approach*, University of Tabriz, Tabriz, Nov. 11-12, 2010. (In Persian)
- 35.B. Sokouti, M. Sokouti, and S. Pashazadeh, "Rapid Diagnosis of Diabet by Analyzing Color Images of Retinal Blood Vessels," in *Second Seminar of Information Age with New Technologies Approach*, University of Tabriz, Tabriz, Iran, Nov. 11-12, 2010. (In Persian)
- 36.M. Sokouti, B. Sokouti, S. Pashazadeh, and F. Dehghan, "Application of Mobile Phones in Smart Car Parking System," in *Second Seminar of Information Age with New Technologies Approach*, University of Tabriz, Tabriz, Iran, Nov. 11-12, 2010. (In Persian)
- 37.M. Sokouti, S. Pashazadeh, and B. Sokouti, "8-bit Improved Transposition Cipher System for Wireless Infrastructure," in *2<sup>nd</sup> Iranian Conference on Electrical & Electronics Engineering (ICEEE 2009)*, Gonabad, Iran, Aug. 19-20, 2009.
- 38.S. Pashazadeh and M. Sharifi, "Simulative Study of Two Fusion Methods for Target Tracking in Wireless Sensor Networks," in *Communications in Computer and Information Science: Advances in Computer Science and Engineering*, Springer Berlin Heidelberg, 2009, pp. 769-772.
- 39.S.Pashazadeh and M. Sharifi, "Simulative Study of Error Propagation in Target Tracking Based on Time Synchronization Error in Wireless Sensor Networks," in *Innovations 2008*, Al Ain, United Arab Emirates, Dec. 16-18, 2008, pp. 563-567.
- 40.M. Sharifi and S. Pashazadeh, "Applying Analytic Geometry for Remote Target Tracking Using Wireless Sensor Networks," in *5<sup>th</sup> National Conference of Machine Vision and Image Processing of Iran (MVIP 2008)*, University of Tabriz, Tabriz, Iran, Nov. 4-6, 2008, pp. 372-376.
- 41.S. Pashazadeh and M. Sharifi, "Reliability Assessment under Uncertainty Using Dempster-Shafer and Vague Set Theories," in *IEEE International Conference on Computational Intelligence for Measurement System and Applications (CIMSA 2008)*, Bogazici University, Istanbul, Turkey, Jul. 14-16, 2008, pp. 131-136.
- 42.S. Pashazadeh and M. Sharifi, "Simulative Study of Target Tracking Accuracy Based on Time Synchronization Error in Wireless Sensor Networks," in *IEEE International Conference on Virtual Environments, Human-Computer Interfaces, and Measurement Systems (VECIMS 2008)*, Bogazici University, Istanbul, Turkey, Jul. 14-16, 2008, pp. 68-73.
- 43.S. Ebadi, H. Motiei, and S. Pashazadeh, "Simulation and Performance Evaluation of Hierarchical Clustering in Wireless Sensor Networks," in *13<sup>th</sup> Joint International & National Computer Society of*



*IRAN Computer Conference (CSICC 2008)*, Kish Island, Persian Gulf, IRAN, March 9-11,2008. (in Persian)

- 44.S. Pashazadeh and M. Sharifi, "Requirements for Developing and Running Pervasive Healthcare Systems," in *14<sup>th</sup> Iranian Conference on Biomedical Engineering (ICBME 2008)*, Tehran, Iran, Feb. 13-14, 2008, pp. 449-456.
- 45.S. Pashazadeh and M. Sharifi, "A Comparative Study of Two Typical Fusion Methods for Target Tracking in Wireless Sensor Networks," in *3<sup>rd</sup> Conference on Information and Knowledge Technology (IKT 2007)*, Ferdowsi Univ. of Mashhad, Mashhad, Iran, Nov. 27-29, 2007.
- 46.S. Pashazadeh and M. Sharifi, "QoS Metrics and Their Support in Wireless Sensor Networks," in *3<sup>rd</sup> Conference on Information and Knowledge Technology (IKT 2007)*, Ferdowsi Univ. of Mashhad, Mashhad, Iran, Nov. 27-29, 2007, pp. 449-456.
- 47.S. Pashazadeh, "Generating 3D Real Time Virtual Reality," in *2<sup>nd</sup> Broadcast Engineering Conference*, IRIB Faculty, Tehran, Iran, Nov. 17-19, 2007.
- 48.M. Sharifi and S. Pashazadeh, "Using Confidence Degree for Sensor Reading in Wireless Sensor Networks", in *IEEE 4<sup>th</sup> International Symposium on Mechatronics and Its Applications (ISMA07)*, American University of Sharjah, Sharjah, UAE, Mar. 26–29, 2007.
- 49.S. Pashazadeh, M. Sharifi, and H. Tamadon, "Comparing the Results of 3D and 2D Static FEM Analysis in Tooth movement Study," in *9<sup>th</sup> Iranian Conference on BioEngineering*, Iran Univ. of Sci. & Tech., Tehran, Iran, Feb. 20-21, 2000, pp. 254-259. (In Persian).
- 50.S. Pashazadeh, M. Sharifi, and H. Tamadon, "Studying the Effect of Resting Point in Tooth Movement using 3D Static FEM Analysis," in *9<sup>th</sup> Iranian Conference on BioEngineering*, Iran Univ. of Sci. & Tech., Tehran, Iran, Feb. 20-21, 2000, pp. 260-263. (In Persian).
- 51.S. Pashazadeh, M. Sharifi, and H. Tamadon, "Studying the Computer Simulation of Tooth Movement using Static FEM Analysis", in *2<sup>nd</sup> Iranian Student Conference on BioEngineering*, Azad Univ., Sci. & Research Dept., Tehran, Iran, 2000, pp. 238-246. (In Persian).

## RESEARCH PROJECTS

1. Co-Worker of a research project titled "*Worksite health promotion programs based on physical activity and sport*", *Sungun Copper Mine*, National Iranian Copper Industries Co., November 19, 2019- May 21, 2022
2. Project team member of Erasmus+ founded project titled "Improving Innovation and Entrepreneurship Competences of Iranian Higher Education Graduates through Data Analytics(GraDAAna)", *Project number: 573981-EPP-1-2016-1-EL-EPPKA2-CBHE-JP*, project ID: 400573981, 2016-2019.
3. Executive Manager of a research project titled "Feasibility Study of Management Reporting System of Sungun Copper Complex", *Sungun Copper Mine*, National Iranian Copper Industries Co., 2013-2015.
4. Executive Manager of a research project titled "Specifying Various Sensing Coverage Areas for 2D Target Localization in WSN", *The University of Tabriz*, Tabriz, Iran, 2011-2013.
5. Executive Manager of a research project titled "Extracting the 3-D Shape of Human Face using Stereo Vision", *The Sahand University of Science and Technology*, Tabriz, Iran, 2000-2002.
6. Co-Worker of a research project titled "Design and Implementation of Risk Analysis and Risk Assessment Software," *Petroleum Co.* Tabriz, Iran, 2001-2002.
7. Project Manager of a research project titled "Design and Implementation of Real-time Software for Interactive Flight Simulator," *Navid Tech. Co.*, Tehran, Iran, 1997-1999.
8. Co-Worker of a research project titled "Computer Game of Teaching Defense against Earthquake", *International Institute of Earthquake Engineering and Seismology*, Tehran, Iran, 1993-1994.

## MEMBERSHIPS

1. Senior Member of The International Association of Computer Science and Information Technology (IACSIT) from November 1, 2011.
2. Member of the Institute of Electrical & Electronics Engineers (IEEE) from May 6, 2008 –2013.

3. Appraiser of Knowledge-based Corporations under the supervision of Vice-President of Science and Technology of Presidency of the Islamic Republic of Iran from 2016 –continued. (Assessor of more than eight corporations in the field of IT)

## WORKSHOPS

1. Title: "Concepts and generalities of e-government", *Center for Educational and Research of District one of the country*, 8 Hours, January 28, 2017.
2. Title: "Organizational Skills of Information Technology", *Center for Educational and Research of the District one of the country*, 10 hours, March 1, 2017.
3. Title: "Using Formal Methods for Verifying Properties of Protocols and Algorithms", *Second Seminar of Information Age with New Technologies Approach*, University of Tabriz, Tabriz, Nov. 11-12, 2010, 4 Hours.
4. Title: "Wifi Security", *Faculty of Electrical and Computer Engineering*, University of Tabriz, February 18, 2016.

## INVITED AND KEYNOTE SPEAKS

1. Title: "Model Checking and Verification of Behavioral Properties of Systems", in *2<sup>nd</sup> International Conference on knowledge-based Research in Computer Engineering & IT*, Allameh Tabataba'i University, Tehran, September 21, 2017, Keynote speaker.
2. Title: "My Future Career Path", *Faculty of Electrical and Computer Engineering*, University of Tabriz, November 22, 2017, Invited Lecturer for Research Week.

## SKILLS

1. Professional in Delphi, C, C++ & JAVA programming
2. NesC Programming (Sensor Network Programming) and Working experience with TinyOS
3. Professional in the Simulation of WSN Applications with VisualSense and Viptos, a Leverage of Ptolemy II.
4. System Modeling with Colored Petri Nets and Matlab
5. System Analysis and Design using RUP
6. AI techniques
7. LANGUAGES: Persian (native), Turkish (native), English (good), Deutsch (A2), Arabic (beginner)

## RELATED CERTIFICATES

1. Patent and Intellectual Ownership, University of Tabriz, Tabriz, Iran, Oct. 2011
2. Teaching Methods, 16 Hours (2 days), University of Tabriz, Tabriz, Iran, Oct. 2011.
3. Research Methods, 2 days, University of Applied Science and Technology, Tabriz, Iran, Jul. 2006.
4. Teaching Methods, 2 days, University of Applied Science and Technology, Tabriz, Iran, Jul. 2006.
5. Teaching Methods, 40 Hours, Sahand University of Technology, Tabriz, Iran, Oct. 2003.
6. Research Methods, 40 Hours, Azad University of Tabriz, Tabriz, Iran, Aug. 2000.

## JOURNAL REVIEWS

1. IEEE Access, ISSN: 2169-3536, IEEE, United States.
2. IEEE Systems Journal, ISSN: 1932-8184, 1937-9234, IEEE, United States.
3. Science Progress, ISSN: 0036-8504, 2047-7163, Science Reviews Ltd, United Kingdom.
4. Journal of Supercomputing, ISSN: 0920-8542, 1573-0484, Springer, Netherlands.
5. PeerJ, ISSN: 2167-8359, PeerJ Inc., United States.
6. International Journal of Distributed Sensor Networks, ISSN: 1550-1329, 1550-1477, SAGE Publications Inc., United States.
7. International Journal of Information Technology & Decision Making, World Scientific Publishing Co. Pte Ltd, Singapore. ISSN: 2076-3417, Multidisciplinary Digital Applied Sciences
8. Applied Sciences, Publishing Institute (MDPI), Switzerland.
9. Iranian Journal of Science and Technology, Transactions of Electrical Engineering, ISSN: 2364-1827, 2228-6179, Springer International Publishing AG, Switzerland.
10. Tabriz Journal of Electrical Engineering, ISSN: 2008-7799, 2538-3051, University of Tabriz, Iran.
11. Journal of Advanced Signal Processing, ISSN: 2676-3397, 2676-3400, University of Tabriz, Iran.

12. Journal of Information Systems and Telecommunication (JIST), ISSNs: 2322-1437, 2345-2773, Iranian Academic Center for Education Culture and Research, Iran.

## **REVIEW OF INTERNATIONAL RESEARCH PROPOSALS**

1. MSRT-TUBITAK Joint Research Program (the I.R. Iran and Turkey), two proposals in 2019-12-25.
2. MSRT-TUBITAK Joint Research Program (the I.R. Iran and Turkey), two proposals in 2021-03-2.

## **BOOK REVIEW**

1. Chancellery of Research and Technology, Urmia University of Technology, Orumiyeh (Urmia), Iran.
2. Chancellery of Research and Technology, Islamic Azad University-Urmia Branch, Urmia, Iran.
3. Chancellery of Research and Technology, Azarbaijan Shahid Madani University, East Azarbaijan Province 35 km. of Bonab-Tabriz Highway, Iran.
4. Chancellery of Research and Technology, Semnan University, Semnan, Iran.

## **EVALUATOR OF PROJECTS AND CORPORATIONS**

1. Three projects, East Azarbaijan Science and Technology Park, Tabriz, Iran.
2. A corporation in West Azarbaijan province, Urmia, As an evaluator of Vice-Presidency for Science and Technology.
3. A corporation in Ardabil province, Ardabil, As an evaluator of Vice-Presidency for Science and Technology.
4. Four corporations in East Azarbaijan province, Tabriz, As an evaluator of Vice-Presidency for Science and Technology.

## **COURSES TAUGHT**

### **UNDERGRADUATE COURSES COURSES TAUGHT AT THE UNIVERSITY OF TABRIZ**

- Operating Systems (Spring 2023 (S23), S22, S21, S20, S19, Fall 2018 (F18), S18, F17, S17, F16, S16, F15, S15, F14, F13, F12, F11)
- Software Engineering I (S19, F14, F13, F12, F11)
- Software Engineering II (S23, F19, S15, S14, S13, S12)
- System Analysis and Design (F17, F16, F15)
- Security of Computer Systems (S14, S11)
- Machine and Language Theory (S18, S17, S16)
- Algorithm Design (S21, S20)
- Engineering Statistics and Probability (F22, F21)

### **GRADUATE COURSES TAUGHT AT THE UNIVERSITY OF TABRIZ**

- Advanced Operating Systems (S23, F22, S22, S21, F20, S20, S19, S18, S17, S16, F15, S14)
- Advanced Software Engineering (S23, F22, F21, F20, F19, F18, F17, F16, F15, S15, F14, F13)
- Advanced Database Systems (F17, F16, F14)
- Artificial Neural Networks (F13, F12, S12)
- Stochastic Process (S22, F21, F20, S20, S19, F18, F17, F16, F15, S15)
- Dependable Software Systems (S21, F20)
- Pervasive and Autonomous Computing (F22, S22)

## **GRADUATE STUDENT RESEARCH SUPERVISION**

### **PH.D. SUPERVISION**

#### **GRADUATED STUDENTS:**

1. Mousa Nazari  
Dissertation Title: *Data Association and Tracks Fusion Using Density-Based Fuzzy Clustering*,

- Faculty of Electrical & Computer Engineering, University of Tabriz, Defended July 20, 2020.
2. Sahar Shokuhi Tabrizi  
Dissertation Title: *Design and Implementation of Artificial Coaching System for Motion Analysis of Table Tennis Strokes*, Faculty of Electrical & Computer Engineering, University of Tabriz, Defended September 7, 2021.
  3. Negar Sadat Soleimani Zakeri  
Dissertation Title: *Reconstruction and Analysis of Gene Co-expression Networks to Early Diagnosis of Alzheimer Disease using Computational Systems Biology Approach*, Faculty of Electrical & Computer Engineering, University of Tabriz, Defended November 24, 2021.
  4. Masood Sokuti  
Dissertation Title: *Designed and development of comprehensive Meta analysis software: a localized approach*, co-supervisor: Dr. Ramin Sadeghi, University of Medical Sciences, Mashahd, Defended November 28, 2021.
  5. Ahmad Taghinezhad Niyar  
Dissertation: *QoS-aware Scheduling and Resource Provisioning for Scientific Workflows in Cloud*, Faculty of Electrical & Computer Engineering, University of Tabriz, Defended December 1, 2021.
  6. Haleh Dizaji  
Dissertation: Behavioral modeling of dynamic complex networks using stochastic processes and machine learning, Faculty of Electrical & Computer Engineering, University of Tabriz, Defended September 10, 2022.

#### **CURRENT PH.D. CANDIDATES:**

1. MohammadReza Ipchi Sheshgelani  
Dissertation: *Hybrid consensus method based on function optimization for blockchain*, Faculty of Electrical & Computer Engineering, University of Tabriz.
2. Maryam Pashazadeh  
Dissertation: *Supporting Sensing Coverage and Connectivity of Wireless Sensor-Actuator Network in Mountainous Terrain*, Faculty of Electrical & Computer Engineering, University of Tabriz.
3. Leila Namvari Tazehkand  
Dissertation: *Modeling and Verification of a Byzantine Tolerant Hierarchical Causal Broadcast Algorithm in Dynamic Distributed Systems*, Faculty of Electrical & Computer Engineering, University of Tabriz.
4. Muayad Gazi Sahm Al-kharsa (Iraqi)  
Dissertation: *Uncertainty Propagation Analysis of Acoustic Target Localization Using Non-linear Regression*, Faculty of Electrical & Computer Engineering, University of Tabriz.
5. Aidin Yadranji  
Faculty of Electrical & Computer Engineering, University of Tabriz.
6. Ali Moayedi-oskuei  
Faculty of Electrical & Computer Engineering, University of Tabriz.
7. Ulduz Yadranji  
Faculty of Electrical & Computer Engineering, University of Tabriz.
8. Milad Vahedifar  
Faculty of Electrical & Computer Engineering, University of Tabriz.
9. Mehdi Biglari  
Faculty of Electrical & Computer Engineering, University of Tabriz.
10. Shahram Pashazadeh  
Faculty of Electrical & Computer Engineering, University of Tabriz.
11. Amal Addulbaqi Maryoosh Al-rabiei (Iraqi)  
Faculty of Electrical & Computer Engineering, University of Tabriz.
12. Ibtisam Ali Seger Al-ghalibi (Iraqi)  
Faculty of Electrical & Computer Engineering, University of Tabriz.
13. Raghad Falih Mohammed (Iraqi)  
Faculty of Electrical & Computer Engineering, University of Tabriz.

14. Hazim Mohammed Abbas (Iraqi)  
Faculty of Electrical & Computer Engineering, University of Tabriz.

## **MASTERS STUDENT SUPERVISION**

### **GRADUATED STUDENTS:**

1. Mohammad Javad Heydari  
Thesis Title: *Connectivity Preservation in Three Dimensional Sensor Actor Networks*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended September 9, 2012.
2. Mohammad Javad Parseh  
Thesis Title: *Multiple Maneuvering Object Tracking Using Particle Filtering*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended September 10, 2012.
3. Marjan Nekoei Zahraei  
Thesis Title: *Crypto analysis Via Chosen Plaintext Attack using Artificial Neural Network*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended January 20, 2013.
4. Negar Sadat Soleymani Zakeri  
Thesis Title: *Tabriz Fault Seismic Data Clustering to Find the Seismic Fault Zones Using Data Mining*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended January 27, 2014.
5. Majid Hatami  
Thesis Title: *Enhancing Ontological User Profiling Recommendation System Using Trust Formula*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended February 4, 2014.
6. Masume Kheyri  
Thesis Title: *Fuzzy Adaptive Resonance Theory and Its Application for Increasing Accuracy of Results in Environment Surveillance using Wireless Sensor/Actor Networks*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended June 23, 2014.
7. Shabnam Hassanzadeh Sharif  
Thesis Title: *Optimal Placement of Cameras to Maximize Visual Coverage and Surveillance Security of a Building Using Genetic Algorithm*, Islamic Azad University of East Azarbaijan Science and Research Branch, Defended January 1, 2015.
8. Farzan Nowruzi  
Thesis Title: *Face Recognition Under Different Illumination Variations*, Co-Supervisor: Dr. Mohammad Ali Balafar, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended November 16, 2013.
9. Fatemeh Moosavi  
Thesis Title: *Data Mining of Medicine and Illnesses Data*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended September 10, 2014.
10. Salar Tafkiki Alamdari  
Thesis Title: *Modeling and Verification of Three Important Characteristics of Two New Access Control Polices in Pervasive Computing Environment Using Colored Petri Nets*, Islamic Azad University of Zanjan Branch, Defended 2012.
11. Mohammad Zendedel Dizaj  
Thesis Title: *A Model for Reducing Uncertainty in Access Control of Pervasive Computing Environments*, Islamic Azad University of Zanjan Branch, Defended February 4, 2013.
12. Elham Kabir  
Thesis Title: *Coordination-aware Task Assignment in Wireless Sensor-Actor Networks*, Islamic Azad University, Science and Research Branch of Tabriz, Defended February 6, 2013.
13. Bahman Shiri Lonbar  
Thesis Title: *Design of Distributed Algorithm for Mobile Ad-hoc Smart Mines Selection for Destructing Naval Targets using Adaptive Fuzzy Logic*, Islamic Azad University, Science and Research Branch of Tabriz, Defended February 15, 2014.
14. Esmail Valipoor Akherlu  
Thesis Title: *Modeling of Fuzzy Inference Engine Using Hierarchical Colored Petri Nets*, Islamic

- Azad University, Science and Research Branch of Tabriz, Defended 2013.
15. Elham Abdolrahimi Niyari  
Thesis Title: *Modeling Enterprise Architecture Using Timed Colored Petri Net*, The University College of Mizan, Tabriz. Defended 2013.
  16. Amir Keshvari Ilkhichi  
Thesis Title: *Modeling and Verification of Security Characteristics of Kerberos Protocol with Colored Petri Nets*, Islamic Azad University of Zanjan Branch, Defended September 22, 2013.
  17. Nahid Danesh  
Thesis Title: *Managing Visual Area Coverage in Environment Monitoring Using Wireless Visual Sensor/Actor Network*, Aras International Campus of University of Tabriz, Defended June 21, 2015.
  18. Majid Mardaalamdari  
Thesis Title: *A Distributed Clustering Algorithm for Reducing Power Consumption and Supporting of Required Sensing Coverage Degree in Target Tracking Application Using Wireless Sensor/Actor Network*, Aras International Campus of the University of Tabriz, Defended February 8, 2015.
  19. Mehdi Roostaei  
Thesis Title: *Support of Coverage and Connectivity for Pursuer-Evader Tracking in Wireless Sensor/Actuator Network*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended February 8, 2015.
  20. Sedigheh Ghanbari  
Thesis Title: *Prediction of Credit Risk in the Banking Using Data Mining Techniques*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended February 7, 2015.
  21. Mahsa Karimi  
Thesis Title: *Optimization of Visual Coverage in Closed Two-Dimensional Space by Wireless Camera Sensor Network Using Genetic Algorithm*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended February 9, 2016.
  22. Mahmood Ghasemzadeh  
Thesis Title: *Modeling and Evaluation of a Dynamic Model for Intelligent Traffic Control using Colored Petri Net*, Islamic Azad University of Zanjan Branch, Defended September 22, 2014.
  23. Amir Masoud Baibordi  
Thesis Title: *Prediction and Studying Behavioral Patterns of Homeowners of Tabriz Using Data Mining*, Aras International Campus of the University of Tabriz, Defended February 15, 2016.
  24. Hadi Shabneshin  
Thesis Title: *Bus Arrival Time Prediction at Bus Station Using GPS Data (Case Study: Tabriz City)*, Aras International Campus of the University of Tabriz, Defended February 15, 2016.
  25. Seyed Jamal Aldin Mojaveri  
Thesis Title: *Modeling, Verification and Evaluation of Multiprocessor Scheduling using Extended CBR-LA Algorithm*, Aras International Campus of the University of Tabriz, Defended September 9, 2015.
  26. Ahmad Taghinezhad Niyar  
Thesis Title: *Improvement of Online Preemptive Task Scheduling by Minimum Completion Time and Maximum Median Methods for Heterogeneous Multi-Cloud Environment Using Prioritization*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended July 25, 2017.
  27. Shabnam Khalili  
Thesis Title: *Using Data Mining Techniques for Clustering Information of Bank Accounts Owners*, Aras International Campus of University of Tabriz, Defended February 3, 2015.
  28. Ali Rabieekia  
Thesis Title: *Node Management with Support of Connectivity and Coverage QOS Metrics in Environmental Monitoring Using Wireless Sensor/Actor Networks*, Aras International Campus of the University of Tabriz, Defended February 1, 2016.
  29. Saman Hakimzadeh Abyaneh  
Thesis Title: *Distributed Coordination for Pursuer-Evader Tracking in Wireless Sensor/Actuator Networks*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended September 7, 2015.

30. Mahdi Aghalary  
Thesis Title: *Analysis and Manipulation of Executable Files with PE Structure*, Aras International Campus of the University of Tabriz, Defended August 16, 2015.
31. Shabnam Ekhtiyari Molan  
Thesis Title: *Modeling and Evaluation of Grid Authorization Mechanism Based On The graph Colored Petri Net*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended September 4, 2016.
32. Hassan Rahigh Akhsan  
Thesis Title: *Improving PHAODV Routing Protocol to Identifying any Type of Hole Attacks in Clustered Ad-hoc Networks Through Monitoring*, International Campus of University of Tabriz, Defended May 23, 2017.
33. Fatemeh Moosavi  
Thesis Title: *Data Mining of Medicine and Illnesses Data*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended September 10, 2014.
34. Yusef Mostafaei  
Thesis Title: *Implementation of Improved ZRP Wireless Ad-hoc Network Routing Protocol for Ptolemy Simulator*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended August 29, 2016.
35. Vahid Kabody Hajari  
Thesis Title: *Customization and Simulation of Passive Clustering in Wireless Sensor/Actor Networks*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended September 4, 2016.
36. Hassan Feghe Amini  
Thesis Title: *Sample-Based Path Planning for Autonomous Vehicle's Motion among Static Obstacles*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended May 3, 2017.
37. Sina Ajilian  
Thesis Title: *Controlling the Movement of Single Agent Robot Soccer Using Particle Filter*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended February 7, 2017.
38. Zahra Ebadi Ansarodi  
Thesis Title: *Modeling and evaluation of Ticket-based handoff authentication protocol for wireless mesh networks*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended February 7, 2017.
39. Jalil Farzizad  
Thesis Title: *Modeling and Evaluation of Graph Search Algorithm of Indoor Pursuit-Evasion Using Colored Petri Net*, International Campus of the University of Tabriz, Defended September 4, 2016.
40. Esmail Farzizad  
Thesis Title: *Modelling Pursuit-Evasion Game in Discrete Mesh Space Using Colored Petri Net*, International Campus of the University of Tabriz, Defended September 4, 2016.
41. Milad Vahedifar  
Thesis Title: *Modeling and Evaluation of Role-Based Access Control of Intelligence Warehouse System in Pervasive Computing Environment Using Colored Petri Net*, International Campus of the University of Tabriz, Defended September 13, 2016.
42. Jalal Osouli  
Thesis Title: *Modeling and Analysis of Granting Banking Facilities in Bank Refah Kargaran Using Colored Petri net*, International Campus of the University of Tabriz, Defended August 29, 2016.
43. Mahdi Navabpoor  
Thesis Title: *Modeling and Verification of Environment Surveillance Strategy by Visual Sensor Network Using Colored Petri Net Tools*, International Campus of University of Tabriz, Defended July 18, 2016.
44. Akbar Ghanjeluzadeh  
Thesis Title: *Modeling Online Spooling Operating System and Verification of its Behavioral Properties Using Colored Petri Net*, International Campus of the University of Tabriz, Defended

- September 19, 2017.
45. Roshanak Saatri  
Thesis Title: *Modeling of Intersection Traffic Control by VANET Distributed Algorithm Using Colored Petri Net*, International Campus of University of Tabriz, Defended July 24, 2017.
  46. Mohammad Hakimi Heris  
Thesis Title: *Evaluating Reliability of Connectivity in VANETs under Different Traffic Patterns Using Discrete Event Simulation*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended September 11, 2018.
  47. Faezeh Setareh  
Thesis Title: *Locating New Emergency Stations Aiming at Reducing Patient Transfer Time to Nearest Emergency Station in Tabriz Using Genetic Algorithm*, International Campus of University of Tabriz, Defended January 13, 2018.
  48. Sanaz Ghaderi  
Thesis Title: *Comparing Genetic Algorithm and Imperialist Competitive Algorithm to Optimize the Lift Truck Movement in the Warehouse*, International Campus of University of Tabriz, Defended January 20, 2018.
  49. Mina Mohammadi  
Thesis Title: *Improvement of Hadoop MapReduce scheduling in heterogeneous cloud environments using prioritization*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended September 11, 2018.
  50. Leila Namvari Tazehkand  
Thesis Title: *Reliability Analysis of a RAID System Using Markov Chain and Fault Tree*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended September 7, 2019.
  51. Reza Soltani  
Thesis Title: *Security Improvement of PeDAAC Protocol for 6LowPAN in the Internet of Things*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended June 23, 2020.
  52. Rahim Abri Lighvan  
Thesis Title: *Distributed Coordination for Charging Sensor Nodes Based on the Service Priority in WSAAN*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended February 5, 2020.
  53. Ebrahim Barghi Zinjenab  
Thesis Title: *Modeling and Evaluating the Quality of Service in Cloud Computing Using Hierarchical Colored Petri Net*, International Campus of the University of Tabriz, Defended January 27, 2019.
  54. Alamdar Ibrahim Mohammed Albayati (Iraqi)  
Thesis Title: *Modeling Chandy-Lamport Algorithm Using Colored Petri Net with the Aim of Evaluating and Increasing Fault Tolerancy*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended October 19, 2020.
  55. Alireza Naghavi  
Thesis Title: *Accurate Tracking of Moving Object Using Inertial Measurement Units*, International Campus of the University of Tabriz, Defended November 11, 2019.
  56. Mohammadreza Shakurnia  
Thesis Title: *Byzantines Consensus Algorithm in Distributed Systems Without Limit on the Number of Byzantine Nodes*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended September 11, 2021.
  57. Ramin Ali Khezzr (Iraqi)  
Thesis Title: *Design of a fuzzy system based on Particle Swarm for optimizing energy consumption and coverage area in mobile wireless sensor networks*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended September 22, 2021.
  58. Balal Omar Khodakaram (Iraqi)  
Thesis Title: *Increasing the lifetime of the wireless sensor network by selecting cluster head nodes using the multi-objective harmonic search algorithm*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended October 26, 2021.
  59. Ali Hodaei Dodran



Thesis Title: *Prediction of Weather Features of Tabriz City Using Deep Learning Based on Recurrent Neural Networks*, International Campus of the University of Tabriz, Defended January 25, 2022.

60. Arezoo Naghibi

Thesis Title: *Comparison of hybrid connection recovery and efficient actor recovery methods in wireless mobile actor/sensor network in terms of packet delivery reliability via computer simulation*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended September 7, 2022.

61. Farqad Salim Abdulhasan Al-Ibadi (Iraqi)

Thesis Title: *Automatic Detection of Gas Leakage by a Robot Equipped with a Gas Sensor Using the PSO Algorithm*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended September 10, 2022.

62. Karrar Sami Abdullah Al-hassoni (Iraqi)

Thesis Title: *Sensing Coverage Optimization for Accurate Acoustic Target Localization by Wireless Sensor Networks using Imperialist Competitive Algorithm*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended September 13, 2022.

63. Imad Ali Senif (Iraqi)

Thesis Title: *Sensing Coverage Optimization of Mountainous Terrain Based on the Geological Contour Map by Wireless Sensor Networks Using Imperialist Competitive Algorithm*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended September 19, 2022.

64. Wathiq Fadhil Mubarak Aliedani (Iraqi)

Thesis Title: *A Distributed Algorithm for Cooperation of Actuators for Replacement of Nodes with Discharged Battery in Wireless Sensor and Actuator Network*, Faculty of Electrical and Computer Engineering, University of Tabriz, Defended February 1, 2023.

#### **CURRENT STUDENTS:**

1. Hamed Aghayarzadeh

Thesis Title: *Verification of consensus algorithm in IoT systems with the possibility of latency and packet loss*, Faculty of Electrical and Computer Engineering, University of Tabriz.

2. Samaneh Keshavarz, Faculty of Electrical and Computer Engineering, University of Tabriz.

3. Zahra Javid, Faculty of Electrical and Computer Engineering, University of Tabriz.

4. Tamim Hefzi Abdul Latif (Iraqi)

Thesis Title: *Comparison of Load Balancing Optimization of Software Defined Network Using Dragonfly and Firefly Algorithms*, Faculty of Electrical and Computer Engineering, University of Tabriz.

5. Nuha Muhammad Kamel Al-Ainzi (Iraqi)

Faculty of Electrical and Computer Engineering, University of Tabriz.