

CURRICULUM VITAE



PERSONAL INFORMATION

NAME Saeid
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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, 22 September, 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, 22 September, 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, 23 September, 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 the 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 2 June, 2011–12 November, 2013.
- Head of Information Technology Department, Faculty of Electrical & Computer Engineering, University of Tabriz, Tabriz, Iran, from 8 December, 2010, to 2 June, 2011.
- The administrator of the 18th 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 17th 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 9th 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, 12 May, 2012 – 2016.
- Member of Scientific Board of 2nd 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 3rd 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 8 November, 2011 – 2016.
- Member of Editorial Board of the International Journal of Computer Science, Engineering and Information Technology (IJCSEIT), 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. S. Pashazadeh, B. Z. Jaafar Al-Basseer, J. Tanha, "Modeling Chandy–Lamport Distributed Snapshot Algorithm Using Colored Petri Net," *IET Software*, vol. 2024, no. 1, p. 20, 7 June 2024, doi: 10.1049/2024/6582682.
2. L. Namvari Tazekand, S. Pashazadeh, "Modeling and Formal Verification of a Distributed Mutual Exclusion Algorithm," *Bi-quarterly journal of computing and distributed systems*, vol. 6, no. 2, pp. 1-11, 19 March. 2024.
3. I. K. S. Al-Tameemi, M.-R. Feizi-Derakhshi, S. Pashazadeh, M. Asadpour, "Multi-Model Fusion Framework Using Deep Learning for Visual-Textual Sentiment Classification," *Computers, Materials and Continua*, vol. 76, no. 2, pp. 2145-2177, 17 July 2024, doi: 10.32604/cmc.2023.040997.
4. H. A. Al-Kabbi, M.-R. Feizi-Derakhshi, S. Pashazadeh, "A Hierarchical Two-Level Feature Fusion Approach for SMS Spam Filtering," *Intelligent Automation & Soft Computing*, vol. 39, no. 4, pp. 665-682, 6 September 2024, doi: 10.32604/iasc.2024.050452.
5. I. K. S. Al-Tameemi, M.-R. Feizi-Derakhshi, S. Pashazadeh, M. Asadpour, "A comprehensive review of visual–textual sentiment analysis from social media networks," *Journal of Computational Social Science*, vol. 2024, 8 September 2024, doi: 10.1007/s42001-024-00326-y.
6. M. Ipchi Sheshgelani, S. Pashazadeh, P. Salehpoor, "Cooperative hybrid consensus with function optimization for blockchain," *Cluster Computing*, vol. 26, no. 6, 22 September 2022, pp. 3565–3576, doi:10.1007/s10586-022-03746-5.
7. 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, 16 September 2022, doi: 10.1155/2022/1616116.
8. S. H. Seyed Dizaji, S. Pashazadeh, and J. Musevi Niya, "Wasserstein generative adversarial networks for modeling marked events," *The Journal of Supercomputing*, vol. 79, no. 3, pp. 2961-2983, 29 August 2022, doi: 10.1007/s11227-022-04781-0.
9. A. Taghinezhad-Niar, S. Pashazadeh, and J. Taheri, "Energy-efficient workflow scheduling with budget-deadline constraints for cloud," *Computing*, vol. 104, no. 3, pp. 601-625, 13 January 2022, doi: 10.1007/s00607-021-01030-9
10. N. S. Soleimani Zakeri, S. Pashazadeh, and H. MotieGhader, "Drug Repurposing for Alzheimer's Disease Based on Protein-Protein Interaction Network," *Biomed Research International*, vol. 2021, no. 1, Article ID. 1280237, 14 October 2021, doi: 10.1155/2021/1280237.
11. 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, 26 August 2021, doi: 10.1007/s11042-021-11236-w.
12. A. Taghinezhad-Niar, S. Pashazadeh, and J. Taheri, "Workflow scheduling of scientific workflows under simultaneous deadline and budget constraints," *Cluster Computing*, vol. 24, no. 4, pp. 3449–3467, 24 June 2021, doi:10.1007/s10586-021-03314-3.
13. 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, 9 April 2021, doi: 10.1155/2021/5584756.
14. 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, 16 Fe. 2021, doi: 10.1109/ACCESS.2021.3059888.

- 15.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.)*, vol. 31, no. 1, pp. 37-39, 8 January 2021, doi: 10.1007/s10389-020-01433-6.
- 16.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, 26 January 2021, doi: 10.3233/IDA-194978.
- 17.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, pp. 310-325, Jan.– March 15 December 2020, doi: 10.1016/j.cegh.2020.10.004.
- 18.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 (EBPH)*, vol. 17, no. 2, Article ID. 13313, p.13, 10 August 2023, doi: 10.2427/13313.
- 19.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, p. 15, Article ID. 106504, 16 November 2020, doi: 10.1016/j.dib.2020.106504.
- 20.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, 15 November 2020, pp. 13552-13561, doi: 10.1109/JSEN.2020.3005443.
- 21.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, p. 13, 22 July 2020, doi: 10.1038/s41598-020-69249-8.
- 22.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, pp. 458-463, 19 June 2020, doi: 10.1016/j.arcmed.2020.04.005.
- 23.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, 12 September 2019, doi: 10.1109/ACCESS.2019.2941184.
- 24.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, 4 July 2019, doi: 10.5114/aoms.2018.77723.
- 25.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, 2 March 2019, doi: 10.5114/aoms.2018.73344.
- 26.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.
- 27.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.
- 28.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, July-September 2017.
- 29.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, 8 February, 2017, doi: 10.1136/bmjopen-2016-015415.195.
- 30.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)

- 31.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)
- 32.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, December 2015, doi: 10.17485/ijst/2015/v8i35/74679.
- 33.S. Pashazadeh and M. Rahimi, "Modeling Timestamp Ordering Method Using Colored Petri Net," *Indian Journal of Science and Technology*, vol. 8, no. 35, December 2015, doi: 10.17485/ijst/2015/v8i35/77633.
- 34.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, 10 November 2015.
- 35.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, 20 June. 2015, doi: 10.18495/COMENGAPP.V4I2.134.
- 36.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, September 2014.
- 37.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, September 2014.
- 38.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, March 2014.
- 39.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, March 2014, doi:10.5121/ijfcst.2014.4201.
- 40.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, March 2014, doi: 10.5121/ijmpict.2014.5101.
- 41.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, February 2014, doi: 10.5120/15440-3981.
- 42.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, 31 January 2014.
- 43.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, November 2013.
- 44.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, October 2013.
- 45.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, October 2013.
- 46.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, June 2013, doi:10.1007/s00521-011-0799-8.
- 47.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, February 2013.

- 48.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, October 2012, doi:10.5121/ijitca.2012.2404.
- 49.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, September 2012.
- 50.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, August 2012, doi: 10.5121/ijcseit.2012.2401.
- 51.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, July 2012, pp. 61-69.
- 52.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, July 2012.
- 53.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, July 2012.
- 54.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, April 2012, doi: 10.7763/IJJET.2012.V2.86.
- 55.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, April 2010.
- 56.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, August 2009, doi:10.3390/s90906764.
- 57.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, August 2009.
- 58.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, 22 October, 2013, pages: 208, ISBN: 978-964-517-449-9. (in Persian)

NATIONAL & INTERNATIONAL CONFERENCE PAPERS

1. S. Pashazadeh, M. Pashazadeh, "Model Checking-Based Application-Dependent Quantitative Metrics to Drive the Fault Probability for the Discrete State System," in *RSEP International Multidisciplinary Conference*, pp. 11-17, Dubai, UAE, 8-9 February 2024, doi: 10.19275/RSEPCONFERENCES287.
2. L. Namvari Tazehkand, S. Pashazadeh, "Modeling and Verification of the Causal Broadcast Algorithm Using Colored Petri Nets," in *The Third International Conference on Distributed Computing and High Performance Computing (DCHPC2024)*, Tehran, Iran, 14-15 May 2024.

3. L. Namvari Tazehkand, S. Pashazadeh, "Modeling and Verifying a Fully Anonymous Mutual Exclusion Algorithm Using Colored Petri Nets," in *The Third International Conference on Distributed Computing and High Performance Computing (DCHPC2024)*, Tehran, Iran, 14-15 May 2024.
4. M.-R. Shakourniya-Naviri and S. Pashazadeh, "Byzantines Consensus Algorithm in Distributed Systems without assumption $t < n/3$," in *6th National Conference on Distributed Computing and Big Data Processing (DCBDP 2021)*, pp. 234-239, Tabriz, Iran, 3 March 2021. (In Persian)
5. S. Pashazadeh and L. Namvari, "Investigating the Reliability in Three RAID Storage Models and Effect of Ordering Replicas on Disks," in *6th International Reliability and Safety Engineering Conference (IRSEC 2020)*, p. 7, Shiraz, Iran, 17-18 February 2021.
6. R. A. Ligvan, R. Soitani, and S. Pashazadeh, "Distributed synchronization for charging sensors based on service priority in WSN," in *The 10th International Conference on Computer and Knowledge Engineering (ICCKE)*, Mashhad, Iran, October 29-30, 2020, pp. 130-135, doi: 0.1109/ICCKE50421.2020.9303688.
7. Z. Ebadi Ansaroudi and S. Pashazadeh, "Modeling and Formal Verification of the Ticket-based Handoff Authentication Protocol for Wireless Mesh Networks," in *The 16th International Symposium on Pervasive Systems, Algorithms and Networks (I-SPAN 2019)*, Naples, Italy, September 16-20, 2019, doi:10.1007/978-3-030-30143-9_12.
8. S. Pashazadeh and Z. Eghbali, "Formal modelling and performance evaluation of puzzle type computer game using colored petri net," in *4th National Conference on Distributed Computing and Big Data Processing (DCBDP04)*, Tabriz, Iran, 16 May 2018.
9. 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)*, pp. 36-43, Zanjan, Iran, 5-8 March 2019, doi: 10.1007/978-3-030-37309-2_4.
10. 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)*, pp. 76-88, Zanjan, Iran, 5-8 March 2019, doi: doi.org/10.1007/978-3-030-37309-2_7.
11. S. Pashazadeh and S.-J.-A. Mojaveri, "Modeling, Verification and Evaluation of Multiprocessor Scheduling using Extended CBRLA Algorithm," in *IEEE 4th International Conference on Knowledge-Based Engineering and Innovation (KBEI-2017)*, pp. 0544-0552, Tehran, Iran, 22 December 2017, doi: 10.1109/KBEI.2017.8325037
12. 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)*, pp. 12-17, Hamadan, Iran, 7-8 September 2017, doi: doi: 10.1109/IKT.2016.7777778.
13. 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)*, pp. 85-90, Hamadan, Iran, 7-8 September 2017, doi: 10.1109/IKT.2016.7777791.
14. M. Nazari and S. Pashazadeh, "A Novel Data association algorithm for single target tracking in cluttered environment," in *4th international conference on applied research in computer engineering and signal processing*, Tehran, Iran, 7-8 December 2016.
15. S. Ghanbari, S. Pashazadeh, and H. Bevrani, "Evaluate the performance of various data mining techniques in order to validate banking customers," in *9th symposium on advances in science and technology*, Mashhad, Iran, 14 December 2014. (In Persian)
16. 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, 19-20 November 2014. (In Persian)
17. 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, 6-7 November 2013. (In Persian)
18. 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, 29-30 October 2013. (In Persian)

- 19.B. Shiri Lonbar and S. Pashazadeh, "Distributed Explosion Management of Marine Mines for Destroying Mobile Targets in Intelligent Mines Ad-hoc Network Using Adaptive Fuzzy Logic," in *13th Iranian Conference on Fuzzy Systems (IFSC)*, Qazvin, Iran, 27-29 August 2013.
- 20.E. V. Arekhloo, S. Pashazadeh, and S. N. Razavi, "Modelling of Mamdani Fuzzy Inference Engine using hierarchical colored Petri nets," in *13th Iranian Conference on Fuzzy Systems (IFSC)*, Qazvin, Iran, 27-29 August 2013.
- 21.S. Pashazadeh and E. Abdolrahimi-Niyari, "Presenting Model of Hierarchical Single Processor with Non-Preemptive Scheduling for Modeling Enterprise Architecture Using Colored Petri Net," in *11th International Management Conference*, Tehran, Iran, 21 March, 2013. (In Persian)
- 22.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, 20-21 February 2013(In Persian).
- 23.M.-J. Parseh, S. Pashazadeh, and H. Seyedarabi, "Improved Particle Filtering Algorithm For Maneuvering Object Tracking using Deformation Detection," in *2nd International eConference on Computer and Knowledge Engineering (ICCKE-2012)*, Mashhad, Iran, 18-19 October 2012, pp. 204-209.
- 24.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, 28-29 November 2012.
- 25.F. Nowruzi, M.-A. Balafar, and S. Pashazadeh, "Robust Recognition Against Illumination Variations Based on SIFT," in *5th International Conference on Intelligent Robotics and Applications (ICIRA 2012)*, Montreal, QC, Canada, Proceedings, Part III, Lecture Notes in Computer Science, Springer, 3-5 October 2012, pp. 503-511.
- 26.S. Pashazadehl, 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, 18-19 May 2012, pp. 1174-1179.
- 27.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, 17-18 February 2012, pp. 286-289.
- 28.S. Pashazadeh, "An Approach for QoE Management in WSAAN," in *2012 International Conference on Information and Computer Applications (ICICA 2012)*, IPCSIT vol. 24 (2012) IACSIT Press, Singapore, Hong Kong, China, 17-18 February 2012, pp. 282-285.
- 29.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, 16-17 November 2011.
- 30.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, 16-17 November 2011.(In Persian)
- 31.S. Pashazadeh, "Two Level Time Synchronization Scheme for Wireless Sensor Networks," in *5th International Conference on Application of Information and Communication Technologies (AICT2011)*, Baku, Azerbaijan, 12-14 October 2011, pp. 581-585.
- 32.S. Pashazadeh, "Upper Bound of Time Synchronization Error in Two Dimensional Acoustic Target Localization Using Wireless Sensor Networks," in *5th International Conference on Application of Information and Communication Technologies (AICT2011)*, Baku, Azerbaijan, 12-14 October 2011, pp. 475-479.
- 33.S. Pashazadeh, "Modeling Non-Functional Requirements in Designing Middleware for Pervasive Healthcare System," in *5th International Conference on Application of Information and Communication Technologies (AICT2011)*, Baku, Azerbaijan, 12-14 October 2011, pp. 203-207.
- 34.H.-R. Firoozy-Najafabadi and S. Pashazadeh, "Mobile Police Service in Mobile Government," in *5th International Conference on Application of Information and Communication Technologies (AICT2011)*, Baku, Azerbaijan, 12-14 October 2011, pp. 118-122.
- 35.S. Pashazadeh, "Modeling a Resource Management Method Using Hierarchical Colored Petri Nets," in *International eConference on Computer and Knowledge Engineering (ICCKE2011)*, Mashhad, Iran, 13-14 October 2011, pp. 55-60.

- 36.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, 13-14 October 2011, pp. 98-103.
- 37.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, 11-12 November 2010. (In Persian)
- 38.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, 11-12 November 2010. (In Persian)
- 39.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, 11-12 November 2010. (In Persian)
- 40.M. Sokouti, S. Pashazadeh, and B. Sokouti, "8-bit Improved Transposition Cipher System for Wireless Infrastructure," in *2nd Iranian Conference on Electrical & Electronics Engineering (ICEEE 2009)*, Gonabad, Iran, 19-20 August 2009.
- 41.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.
- 42.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, 16-18 December 2008, pp. 563-567.
- 43.M. Sharifi and S. Pashazadeh, "Applying Analytic Geometry for Remote Target Tracking Using Wireless Sensor Networks," in *5th National Conference of Machine Vision and Image Processing of Iran (MVIP 2008)*, University of Tabriz, Tabriz, Iran, 4-6 November 2008, pp. 372-376.
- 44.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 (CIMSIA 2008)*, Bogazici University, Istanbul, Turkey, 14-16 July 2008, pp. 131-136.
- 45.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, 14-16 July 2008, pp. 68-73.
- 46.S. Ebadi, H. Motiei, and S. Pashazadeh, "Simulation and Performance Evaluation of Hierarchical Clustering in Wireless Sensor Networks," in *13th Joint International & National Computer Society of IRAN Computer Conference (CSICC 2008)*, Kish Island, Persian Gulf, IRAN, 9-11 March 2008. (in Persian)
- 47.S. Pashazadeh and M. Sharifi, "Requirements for Developing and Running Pervasive Healthcare Systems," in *14th Iranian Conference on Biomedical Engineering (ICBME 2008)*, Tehran, Iran, 13-14 February 2008, pp. 449-456.
- 48.S. Pashazadeh and M. Sharifi, "A Comparative Study of Two Typical Fusion Methods for Target Tracking in Wireless Sensor Networks," in *3rd Conference on Information and Knowledge Technology (IKT 2007)*, Ferdowsi Univ. of Mashhad, Mashhad, Iran, 27-29 November 2007.
- 49.S. Pashazadeh and M. Sharifi, "QoS Metrics and Their Support in Wireless Sensor Networks," in *3rd Conference on Information and Knowledge Technology (IKT 2007)*, Ferdowsi Univ. of Mashhad, Mashhad, Iran, 27-29 November 2007, pp. 449-456.
- 50.S. Pashazadeh, "Generating 3D Real Time Virtual Reality," in *2nd Broadcast Engineering Conference*, IRIB Faculty, Tehran, Iran, 17-19 November 2007.
- 51.M. Sharifi and S. Pashazadeh, "Using Confidence Degree for Sensor Reading in Wireless Sensor Networks", in *IEEE 4th International Symposium on Mechatronics and Its Applications (ISMA07)*, American University of Sharjah, Sharjah, UAE, 26–29 March 2007.
- 52.S. Pashazadeh, M. Sharifi, and H. Tamadon, "Comparing the Results of 3D and 2D Static FEM Analysis in Tooth movement Study," in *9th Iranian Conference on BioEngineering*, Iran Univ. of Sci. & Tech., Tehran, Iran, 20-21 February 2000, pp. 254-259. (In Persian).
- 53.S. Pashazadeh, M. Sharifi, and H. Tamadon, "Studying the Effect of Resting Point in Tooth Movement using 3D Static FEM Analysis," in *9th Iranian Conference on BioEngineering*, Iran Univ. of Sci. & Tech., Tehran, Iran, 20-21 February 2000, pp. 260-263. (In Persian).

54. S. Pashazadeh, M. Sharifi, and H. Tamadon, "Studying the Computer Simulation of Tooth Movement using Static FEM Analysis", in *2nd 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., 19 November, 2019- 21 May, 2022
2. Project team member of Erasmus+ founded project titled "Improving Innovation and Entrepreneurship Competences of Iranian Higher Education Graduates through Data Analytics(GraDAna)", *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 1 November, 2011.
2. Member of the Institute of Electrical & Electronics Engineers (IEEE) from 6 May, 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, 28 January, 2017.
2. Title: "Organizational Skills of Information Technology", *Center for Educational and Research of the District one of the country*, 10 hours, 1 March, 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, November 11-12, 2010, 4 Hours.
4. Title: "Wifi Security", *Faculty of Electrical and Computer Engineering*, University of Tabriz, 18 February, 2016.

INVITED AND KEYNOTE SPEAKS

1. Title: "Model Checking and Verification of Behavioral Properties of Systems", in *2nd International Conference on knowledge-based Research in Computer Engineering & IT*, Allameh Tabataba'i University, Tehran, 21 September, 2017, Keynote speaker.
2. Title: "My Future Career Path", *Faculty of Electrical and Computer Engineering*, University of Tabriz, 22 November, 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, October 2011
2. Teaching Methods, 16 Hours (2 days), University of Tabriz, Tabriz, Iran, October 2011.
3. Research Methods, 2 days, University of Applied Science and Technology, Tabriz, Iran, July 2006.
4. Teaching Methods, 2 days, University of Applied Science and Technology, Tabriz, Iran, July 2006.
5. Teaching Methods, 40 Hours, Sahand University of Technology, Tabriz, Iran, October 2003.
6. Research Methods, 40 Hours, Azad University of Tabriz, Tabriz, Iran, August 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), ISSN: 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 (F23, 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 (S24, S18, S17, S16)
- Algorithm Design (S21, S20)
- Engineering Statistics and Probability (F22, F21)

GRADUATE COURSES TAUGHT AT THE UNIVERSITY OF TABRIZ

- Advanced Operating Systems (S24, S23, F22, S22, S21, F20, S20, S19, S18, S17, S16, F15, S14)
- Advanced Software Engineering (F24, F23, 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 (F23, 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 20 July, 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 7 September, 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 24 November, 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 28 November, 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 1 December, 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 10 September 2022.

7. MohammadReza Ipchi Sheshgelani
Dissertation: *Hybrid consensus method based on function optimization for blockchain*, Faculty of Electrical & Computer Engineering, University of Tabriz, defended 19 July, 2023.
8. 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, defended 6 January, 2025.
9. Basheer Zuhair Jaafar Al-Basseer
Dissertation: *Improving Visualization of the Distributed Protocols Scenarios by Extending the Message Sequence Chart of the CPN Tool*, Faculty of Electrical & Computer Engineering, University of Tabriz, defended 29 January, 2025.

CURRENT PH.D. CANDIDATES:

1. Maryam Pashazadeh
Dissertation: *Supporting Sensing Coverage and Connectivity of Wireless Sensor-Actuator Network in Mountainous Terrain*, Faculty of Electrical & Computer Engineering, University of Tabriz.
2. 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.
3. Aidin Yadranji
Faculty of Electrical & Computer Engineering, University of Tabriz.
4. Ulduz Yadranji
Faculty of Electrical & Computer Engineering, University of Tabriz.
5. Milad Vahedifar
Faculty of Electrical & Computer Engineering, University of Tabriz.
6. Mehdi Biglari
Faculty of Electrical & Computer Engineering, University of Tabriz.
7. Shahram Pashazadeh
Faculty of Electrical & Computer Engineering, University of Tabriz.
8. Amal Addulbaqi Maryoosh Al-rabiei (Iraqi)
Faculty of Electrical & Computer Engineering, University of Tabriz.
9. Ibtisam Ali Seger Al-ghalibi (Iraqi)
Faculty of Electrical & Computer Engineering, University of Tabriz.
10. Raghad Falih Mohammed (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 9 September, 2012.
2. Mohammad Javad Parseh
Thesis Title: *Multiple Maneuvering Object Tracking Using Particle Filtering*, Faculty of Electrical and Computer Engineering, University of Tabriz, defended 10 September, 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 20 January, 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 27 January, 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 4 February, 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 23 June, 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 1 January, 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 16 November, 2013.
9. Fatemeh Moosavi
Thesis Title: *Data Mining of Medicine and Illnesses Data*, Faculty of Electrical and Computer Engineering, University of Tabriz, defended 10 September, 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 4 February, 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 6 February, 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 15 February, 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 22 September, 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 21 June, 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 8 February, 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 8 February, 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 7 February, 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 9 February, 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 22 September, 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 15 February, 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 15 February, 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 9 September, 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 25 July, 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 3 February, 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 1 February, 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 7 September, 2015.
 30. Mahdi Aghalary
Thesis Title: *Analysis and Manipulation of Executable Files with PE Structure*, Aras International Campus of the University of Tabriz, defended 16 August, 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 4 September, 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 23 May, 2017.
 33. Fatemeh Moosavi
Thesis Title: *Data Mining of Medicine and Illnesses Data*, Faculty of Electrical and Computer Engineering, University of Tabriz, defended 10 September, 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 29 August, 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 4 September, 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 3 May, 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 7 February, 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 7 February, 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 4 September, 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 4 September, 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 13 September, 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 29 August, 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 18 July, 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 19 September, 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 24 July, 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 11 September, 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 13 January, 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 20 January, 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

- 11 September, 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 7 September, 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 23 June, 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 5 February, 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 27 January, 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 19 October, 2020.
 55. Alireza Naghavi
Thesis Title: *Accurate Tracking of Moving Object Using Inertial Measurement Units*, International Campus of the University of Tabriz, defended 11 November, 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 11 September, 2021.
 57. Ramin Ali Khezer (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 22 September, 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 26 October, 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 25 January, 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 7 September, 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 10 September, 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 13 September, 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 19 September, 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 1 February, 2023.

65. 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, defended 24 January 2024.

66. Nuha Muhammad Kamel Al-Ainzi (Iraqi)

Thesis Title: *Comparison of The Honey Badger and Red Deer Algorithms in Optimization of Urban Path Planning*, Faculty of Electrical and Computer Engineering, University of Tabriz, defended 17 July 2023.

67. Jihad Farhan Ghaly (Iraqi)

Thesis Title: *Comparison of Multi-Objective Whale and Bat Algorithms for Energy-Efficient Clustering in Wireless Sensor Network*, Faculty of Electrical and Computer Engineering, University of Tabriz, defended 18 December 2024.

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.

Last updated: 2 February, 2025