Alireza Rezvanian ⓘD

- Assistant Professor, University of Science and Culture (USC), Tehran, Iran.
- Associate editor, CAAI Transactions on Intelligence Technology (Wiley).
- Associate editor, Human-centric Computing and Information Sciences.
- Associate editor, The Journal of Engineering (Willey).
- Associate editor, Data in Brief (Elsevier).

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H-index (Google scholar, 2025): 27   **H-index** (Scopus, 2024): 23   **H-index** (WoS, 2024): 18

Employment History

- Director of Information and Scientific Resources, University of Science and Culture, Tehran, Iran (2023-present).
- Member of Board IEEE Computer Society Iran Chapter (2022-present)
- Supervisor of Computer Engineering – Software (MSc), University of Science and Culture, Tehran, Iran (2023-present).
- Head of Computer Engineering Department, University of Science and Culture, Tehran, Iran (2021-2023).
- Adjunct professor, Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran (2021-present).
- Adjunct professor, University of Tehran, Tehran, Iran (2022-present).
- Adjunct professor, Tarbiat Modares University, Tehran, Iran (2022-2023).
- Non-resident Researcher, School of Computer Science, Institute for Research in Fundamental Sciences (IPM), Tehran, Iran (2016-2020).
- Lecturer, Iranian Research Institute for Information Science and Technology (IranDoc), Tehran, Iran (2018 - 2020).
- Researcher, Niroo Research Institute (NRI): Tehran, Tehran (2017 - 2019).
- Lecturer, Hamedan University of Technology, Hamedan, Iran (2014 - 2017).

Education

Ph.D., Amirkabir University of Technology (Tehran Polytechnic), Computer Engineering (2016).
- **Advisor**: Dr. Mohammad Reza Meybodi.
- **Thesis:** Stochastic Graphs for Social Network Analysis.

M.Sc., Islamic Azad University of Qazvin, Computer Engineering (2010).
- **Advisor**: Dr. Mohammad Reza Meybodi.
- **Thesis**: Improving Artificial Immune System Algorithms using Learning Automata for Dynamic Environments.

B.Sc., Bu-Ali Sina University of Hamedan, Computer Engineering (2007).
- **Advisor**: Dr.Hassan Bashiri.
- **Thesis**: SABA Web Crawler: Design and Implementation of an Effective Web Crawling for Characterization of Persian Web.

Research Interests

Complex networks, Social network analysis, Machine learning, Learning automata, Data mining, Soft computing, Evolutionary algorithms, Image processing.

Publications

- Books

1. J. Kazemi Kordestani, M. Rezapoor Mirsaleh, **A. Rezvanian**, M. R. Meybodi, Advances in Learning Automata and Intelligent Optimization, Springer, ISBN: 978-3-030-76290-2, 2022.

2. R. Vafashoar, H. Morshedlou, **A. Rezvanian**, M. R. Meybodi, "Cellular Learning Automata: Theory and Applications," Springer, ISBN: 978-3-030-53140-9, 2021.

3. **A. Rezvanian**, B. Moradabadi, M. Ghavipour, M. M. Daliri Khomami, M. R. Meybodi, "Learning Automata Approach for Social Networks," Springer, ISBN-13: 978-3030107666, 2019.

4. **A. Rezvanian**, A. M. Saghiri, S. M. Vahidipour, M. Esnaashari, M. R. Meybodi, "Recent Advances in Learning Automata," Springer, ISBN: ISBN-13: 978-3319724270, 2018.

5. **A. Rezvanian**, M. R. Meybodi. "Stochastic Social Networks: Measures and Algorithms," Lambert Academic Publishing, ISBN: 978-3-330-02214-0, 2016.

- Journal papers

1. R. Karami, S. M. Vahidipour, **A. Rezvanian**, SEAL+: A Subgraph-Enhanced Framework for Link Prediction with Graph Neural Networks, Journal of Industrial Information Integration 44, 100802, 2025.

2. M. M. D. Khomami, M. R. Meybodi, **A. Rezvanian**, A cellular goore game-based algorithm for finding the shortest path in stochastic multi-layer graphs, The Journal of Supercomputing 81 (1), 1-50, 2025.

3. O. Ghadami, **A. Rezvanian**, A scalable method for real-time facial emotion recognition using an artificial neural network and polynomial equation, International Journal of Web Research, vol. 7, no. 4, pp. 39-49, 2024.

4. M. M. D. Khomami, M. R. Meybodi, **A. Rezvanian**, Efficient Identification of Maximum Independent Sets in Stochastic Multilayer Graphs with Learning Automata, Results in Engineering, 24, 103224, 2024.

5. **A. Rezvanian**, S. M. Vahidipour, Z. S. Jalali , A spanning tree approach to social network sampling with degree constraints, Social Network Analysis and Mining, Volume 14, article number 101, 2024.

6. M. Mohammadi, S. Jamshidi, **A. Rezvanian**, M. Gheisari, A. Kumar, "Advanced fusion of MTM-LSTM and MLP models for time series forecasting: An application for forecasting the solar radiation", Measurement: Sensors, Volume 33, 101179, 2024.

7. S. Jamshidi, M. Mohammadi, S. Bagheri, H. E. Najafabadi, **A. Rezvanian**, M. Gheisari, M. Ghaderzadeh, A. S. Shahabi, Z. Wu, "Effective Text Classification using BERT, MTM LSTM, and DT", Data & Knowledge Engineering, Volume 151, 102306, 2024.

8. M. M. D. Khomami, M. R. Meybodi, **A. Rezvanian**, "Exploring social networks through stochastic multilayer graph modeling" Chaos, Solitons & Fractals, Volume 182, 114764, May 2024.

9. **A. Rezvanian**, S. M. Vahidipour, A. M. Saghiri, "CaAIS: Cellular Automata-Based Artificial Immune System for Dynamic Environments". Algorithms, 17(1): 18, 2024.

10. Y. Mashayekhi, **A. Rezvanian**, and S. M. Vahidipour, "A novel regularized weighted estimation method for information diffusion prediction in social networks," Applied Network Science, volume 8, Article number 81, 2023.

11. **A. Rezvanian**, S. M. Vahidipour and M. R. Meybodi, "A new stochastic diffusion model for influence maximization in social networks," Scientific Reports, volume 13, Article number 6122, 2023.

12. S. Labafi, **A. Rezvanian**, K. Kamarei, D. Mohamadi, "Bibliometric mapping of media policy per data from Web of Science (2000-2019)." Media Management Review, 1(1), 53-77, 2022.

13. M. M. D. Khomami, **A. Rezvanian**, M. R. Meybodi, A. Bagheri, "CFIN: A community-based algorithm for finding influential nodes in complex social networks." The Journal of Supercomputing, 77(3), 2207-2236, 2021.

14. R. Hosseini, **A. Rezvanian**, "AntLP: Ant-based label propagation algorithm for community detection in social networks," CAAI Transactions on Intelligence Technology, 5(1), 34-41, 2020.

15. J. Kazemi Kordestani, **A. Rezvanian**, M. R. Meybodi, "New measures for comparing optimization algorithms in dynamic environments," Natural Computing, 18(4), 705-720, 2019.

16. M. Behzadifar, H. A. Gorji, A. Rezapour, **A. Rezvanian**, N. L. Bragazzi, S. Vatankhah, "Hepatitis C virus-related policy-making in Iran: a stakeholder and social network analysis," Health Research Policy and Systems, 17(1), 42, 2019.

17. S. M. Vahidipour, M. Esnaashari, **A. Rezvanian**, M. R. Meybodi, "GAPN-LA: A framework for solving graph problems using Petri nets and learning automata," Engineering Applications of Artificial Intelligence, 77, 255-267, 2019.

18. **A Rezvanian**, S. M. Vahidipour, M. Esnaashari, "New Applications of Learning Automata-based Techniques in Real-World Environments," Journal of Computational Science, 24, 287-289, 2018.

19. M. M. Daliri Khomami, **A. Rezvanian**, M. R. Meybodi, "A New Cellular Learning Automata-based Algorithm for Community Detection in Complex Social Networks," Journal of Computational Science, 24, 413-426, 2018.

20. M Hasanzadeh-Mofrad, **A Rezvanian**, "Learning Automata Clustering," Journal of Computational Science, 24, 379-388, 2018.

21. M. M. Daliri Khomami, **A. Rezvanian**, N. Bagherpour, M. R. Meybodi, "Minimum positive influence dominating set and its application in influence maximization: a learning automata approach," Applied Intelligence, 48(3), 570-393, 2018.

22. **A. Rezvanian**, M. R. Meybodi, "Sampling algorithms for stochastic graphs: A learning automata approach," Knowledge-Based Systems, 127, 126-144, 2017.

23. **A. Rezvanian**, M. R. Meybodi, "A new learning automata-based sampling algorithm for social networks," International Journal of Communication Systems, 30(5), e3091, 2017.

24. **A. Rezvanian**, M. R. Meybodi, "Sampling algorithms for weighted networks," Social Network Analysis and Mining, 60(1), 1-22, 2016.

25. **A. Rezvanian**, M. R. Meybodi, "Stochastic graph as a model for social networks," Computers in Human Behavior, 64, 621-640, 2016.

26. M. M. Daliri Khomami, **A. Rezvanian**, M. R. Meybodi, "Distributed learning automata based algorithm for community detection in complex networks," International Journal of Modern Physics B, 30, 1650042, 2016.

27. M. Hasanzadeh, S. Sadeghi, **A. Rezvanian**, M. R. Meybodi, "Success rate group search optimizer," Journal of Experimental & Theoretical Artificial Intelligence, 28(1-2), 53-69, 2016.

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28. J. Kazemi Kordestani, **A. Rezvanian**, M. R. Meybodi, "An efficient oscillating inertia weight of particle swarm optimisation for tracking optima in dynamic environments," Journal of Experimental & Theoretical Artificial Intelligence, 28(1-2), 137-149, 2016.

29. Z. S. Jalali, **A. Rezvanian**, M. R. Meybodi, "Social network sampling using spanning trees," International Journal of Modern Physics C, 27(5), 1650052, 2016.

30. M. Hasanzadeh Mofrad, O. Jalilian, **A. Rezvanian**, M. R. Meybodi, "Service level agreement based adaptive Grid superscheduling," Future Generation Computer Systems, 55, 62-73, 2016.

31. M. Mahdaviani, J. K. Kordestani, **A. Rezvanian**, M. R. Meybodi, "LADE: learning automata based differential evolution," International Journal on Artificial Intelligence Tools, 24(6), 1550023, 2015.

32. **A. Rezvanian**, M. R. Meybodi, "Finding minimum vertex covering in stochastic graphs: a learning automata approach" Cybernetics and Systems, 46(8), 698-727, 2015.

33. M. Hasanzadeh, S. Sadeghi, **A. Rezvanian**, M. R. Meybodi, "Cellular edge detection: combining cellular automata and cellular learning automata," AEU - International Journal of Electronics and Communications, vol. 69(9), 1282-1290, 2015.

34. **A. Rezvanian**, M. R. Meybodi, "Sampling social networks using shortest paths," Physica A: Statistical Mechanics and its Applications, 424, 254-268, 2015.

35. **A. Rezvanian**, M. R. Meybodi, "Finding maximum clique in stochastic graphs using distributed learning automata," International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 23(1), 1-31, 2015.

36. A. E. Ranginkaman, J. Kazemi Kordestani, **A. Rezvanian**, M. R. Meybodi, "A note on the paper "A multi-population harmony search algorithm with external archive for dynamic optimization problems" by Turky and Abdullah," Information Sciences, 288, 12-14, 2014.

37. J. Kazemi Kordestani, **A. Rezvanian**, M. R. Meybodi, "CDEPSO: a bi-population hybrid approach for dynamic optimization problems," Applied Intelligence, 40(4), 682-694, 2014.

38. **A. Rezvanian**, M. Rahmati, M. R. Meybodi, "Sampling from complex networks using distributed learning automata," Physica A: Statistical Mechanics and its Applications, 396, 224-234, 2014.

39. M. Soleimani-Pouri, **A. Rezvanian**, M. R. Meybodi, "Distributed Learning Automata based Algorithm for Solving Maximum Clique Problem in Stochastic Graphs," International Journal of Computer Information Systems and Industrial Management Applications, 6,. 484-493, 2014.

40. S. Sadeghi, **A. Rezvanian**, S. Jamali, M. J. Zomorodian, "Zotero: A Reference Manager for Researchers," Magazine of Elearning Distribution In Academy, 4(3), 56-64, 2013.

41. M. Alizadeh, M. R. Meybodi, **A. Rezvanian**, "Solving moving peak problem using a fuzzy particle swarm optimization based memetic algorithm," The CSI Journal on Computer Science & Engineering, 11(3a), 10-21, 2013.

42. S. Nabizadeh, **A. Rezvanian**, M. R. Meybodi, "Tracking extrema in dynamic environment using multi-swarm cellular pso with local search," International Journal of Electronics & Informatics (IJEI), 1(1), 29-37, 2012.

43. S. Sadeghi, **A. Rezvanian**, E. Kamrani, "An efficient method for impulse noise reduction from images using fuzzy cellular automata," AEU-International Journal of Electronics and Communications, 66(9), 772-779, 2012.

44. S. Rezvanian, F. Towhidkhah, N. Ghahramani, **A. Rezvanian**, "Increasing Robustness of the Anesthesia Process from Difference Patient's Delay Using a State-Space Model Predictive Controller," Procedia Engineering, 15, 928-932, 2011.

- Book chapters (selected)

1. **A. Rezvanian**, S. M. Vahidipour, A. Sadollah, "An Overview of Ant Colony Optimization Algorithms for Dynamic Optimization Problems," Ant Colony Optimization - Recent Variants, Application and Perspectives, IntechOpen, 2023.

2. O. R. B. Speily, **A. Rezvanian**, A. Ghasemzadeh, A. M. Saghiri, S. M. Vahidipour, "Lurkers Versus Posters: Investigation of the Participation Behaviors in Online Learning Communities," Educational Networking, Lecture Notes in Social Networks, pp. 269-298, 2020.

3. M. Soleimani-pouri, **A. Rezvanian**, M. R. Meybodi, "An Ant Based Particle Swarm Optimization Algorithm for Maximum Clique Problem in Social Networks," State of the Art Applications of Social Network Analysis, pp. 295-304, 2014.

4. **A. Rezvanian**, M. R. Meybodi, "Tracking Extrema in Dynamic Environments Using a Learning Automata-Based Immune Algorithm," Communications in Computer and Information Science, Grid and Distributed Computing, Control and Automation, vol. 121, pp. 216-225, 2010.

5. **A. Rezvanian**, M. R. Meybodi, "LACAIS: Learning Automata Based Cooperative Artificial Immune System for Function Optimization," Communications in Computer and Information Science, vol. 94, Contemporary Computing, Part 2, pp. 64-75, 2010.

- Conference papers (selected)

1. S. Shakuri, **A. Rezvanian**, An Efficient Approach to Detecting Lung Nodules Using Swin Transformer, 2024 19th Iranian Conference on Intelligent Systems (ICIS), 1-5, 2024.

2. O. Ghadami, **A. Rezvanian**, S. Shakuri, "Scalable Real-time Emotion Recognition using EfficientNetV2 and Resolution Scaling",

3. 2024 10th International Conference on Web Research (ICWR), pp. 7-12, April 2024.

4. M. M. D. Khomami, A. M. Saghiri, **A. Rezvanian**, M. R. Meybodi, A Framework for Scalable Object Storage and Retrieval Considering Privacy Concerns: A Case Study on the Signature Detection, 2023 9th International Conference on Web Research (ICWR), pp. 237-241, 2023.

5. P. Soltanzadeh, **A. Rezvanian**, "A new pruning method for identifying influential nodes in social networks." 2022 8th

International Conference on Web Research (ICWR 2022), pp. 1-6, Tehran, Iran, May 2022.

6. M. M. D. Khomami, **A. Rezvanian**, A. M. Saghiri, M. R. Meybodi, "Solving Minimum Dominating Set in Multiplex Networks Using Learning Automata, 26th International Computer Conference, Computer Society of Iran, CSICC 2021, 2021.

7. M. M. D. Khomami, **A. Rezvanian**, A. M. Saghiri, M. R. Meybodi, "Distributed learning automata-based algorithm for finding K-Clique in complex social networks", 2020 11th International Conference on Information and Knowledge Technology, IKT 2020.

8. M. M. D. Khomami, **A. Rezvanian**, A. M. Saghiri, M. R. Meybodi, "Overlapping Community Detection in Social Networks Using Cellular Learning Automata," 2020 28th Iranian Conference on Electrical Engineering (ICEE), pp. 1-6, Tabriz, Iran, 4-6 Aug. 2020.

9. S. Rezvanian, **A. Rezvanian**, "Solving Maximal Clique Problem Using Improved Local Search Problem with The Penalty," 6th International Conference on Industrial and System Engineering (ICISE 2020), pp. 558-564, Tehran, Iran.

10. M. M. D. Khomami, **A. Rezvanian**, A. M. Saghiri, M. R. Meybodi, "SIG-CLA: A Significant Community Detection based on Cellular Learning Automata," 2020 8th Iranian Joint Congress on Fuzzy and Intelligent Systems (CFIS), pp. 039-044, Mashhad, Iran, Sep. 2020.

11. M. M. D. Khomami, **A. Rezvanian**, A. M. Saghiri, M. R. Meybodi, "Utilizing Cellular Learning Automata for Finding Communities in Weighted Networks" 2020 6th International Conference on Web Research (ICWR 2020), pp. 325-329, Tehran, Iran, May 2020.

12. N. Arazkhani, M. R. Meybodi, **A. Rezvanian**, "An Efficient Algorithm for Influence Blocking Maximization based on Community Detection," 5th International Conference on Web Research (ICWR 2019), Tehran, Iran, April 24-25, 2019.

13. M. M. Kavoosi, **A. Rezvanian**, "Spam Detection in Social Networks Using Ensemble Learning," 5th International Conference on Web Research (ICWR 2019), Tehran, Iran, April 24-25, 2019.

14. N. Arazkhani, M. R. Meybodi, **A. Rezvanian**, "Influence Blocking Maximization in Social Network Using Centrality Measures," in Proceedings of the 2019 IEEE 5th International Conference on Knowledge-Based Engineering and Innovation (KBEI 2019), pp. 492-497, Tehran, Iran, March 1, 2019.

15. Y. Mashayekhi, M. R. Meybodi, **A. Rezvanian**, "Weighted Estimation of Information Diffusion Probabilities for Independent Cascade Model," in Proceedings of the 4th International Conference on Web Research (ICWR 2018), Tehran, Iran, April 25-26, 2018.

16. M. M. Daliri Khomami, **A. Rezvanian**, N. Bagherpour, M. R. Meybodi, "Irregular cellular automata based diffusion model for influence maximization," in Proceedings of the 2017 5th Iranian Joint Congress on Fuzzy and Intelligent Systems (CFIS), pp. 69-74, Qazvin, Iran, March 7-9, 2017.

17. M. Elyasi, M. R. Meybodi, **A. Rezvanian**, "A New Cellular Learning Automata based Algorithm for Overlapping Community Detection in Social Networks," in Proceedings of the 8th International Conference on Information and Knowledge Technology (IKT 2016), pp. 172-178, Hamedan, Iran, September 7-8, 2016.

18. M. Elyasi, M. R. Meybodi, **A. Rezvanian**, M. Amirhaeri, "A Fast Algorithm for Overlapping Community Detection," in Proceedings of the 8th International Conference on Information and Knowledge Technology (IKT 2016), pp. 221-226, Hamedan, Iran, September 7-8, 2016.

19. M. H. Mirani, M. R. Meybodi, **A. Rezvanian**, "A New Algorithm for Community Detection Based on Learning Automata in Social Network," in Proceedings of the 8th International Conference on Information and Knowledge Technology (IKT 2016), pp. 1-6, Hamedan, Iran, September 7-8, 2016.

20. Z. S. Jalali, **A. Rezvanian**, M. R. Meybodi, "Modeling ads influence spreading on users of social network," in Proceedings of the 2nd International Conference on Web Research (ICWR 2016), pp. 1-7, Tehran, Iran, April 27-28, 2016.

21. Z. S. Jalali, **A. Rezvanian**, M. R. Meybodi, "A two-phase sampling algorithm for social networks," in proceedings of 2015 2nd International Conference on Knowledge-Based Engineering and Innovation (KBEI 2015), pp. 1165-1169, Tehran, Iran, 5-6 Nov. 2015.

22. F. Bozorgi, **A. Rezvanian**, M. R. Meybodi, "Finding maximum clique in weighted graph using cellular learning automata," in Proceedings of the 23rd Iranian Conference on Electrical Engineering (ICEE 2015), pp. 1-5, Tehran, Iran, May 10-14, 2015.

23. F. Bozorgi, **A. Rezvanian**, M. R. Meybodi, "A method based on cellular learning automata for solving weighted k-plex problem," In proceedings of the 5th Joint Conference of AI & Robotics and 7th Robocup Iran Open International Symposium, pp. 262-269, Qazvin, Iran, April 12, 2015.

24. M. M. Daliri Khomami, **A. Rezvanian**, M. R. Meybodi, "Community detection in complex networks using edge similarities," In proceedings of the 2nd international conference on Pattern Recognition and Image Analysis (IPRIA2015), pp. 1-7, Rasht, Iran, 11-12 March 2015.

25. Z. S. Jalali, M. R. Meybodi, **A. Rezvanian**, "A new method for sampling social networks," in Proceedings of the 20th Annual Computer Society of Iran (CSI) Conference (CSICC 2015), pp. 488-493, Mashhad, Iran, 2-4 March 2015.

26. A. Mousavian, **A. Rezvanian**, M. R. Meybodi, "Cellular learning automata based algorithm for solving minimum vertex cover problem," In proceedings of the 22nd Iranian Conference on Electrical Engineering (ICEE 2014), pp. 996-1000, Tehran, Iran, 2014.

27. M. M. Daliri Khomami, **A. Rezvanian**, M. R. Meybodi, "Irregular cellular automata for multiple diffusion," In proceedings of the 22nd Iranian Conference on Electrical Engineering (ICEE 2014), pp. 1-6, Tehran, Iran, 2014.

28. A. Mousavian, **A. Rezvanian**, M. R. Meybodi, "Solving minimum vertex cover problem using learning automata," In Proceedings of the 13th Iranian Conference on Fuzzy Systems (IFSC 2013), Qazvin, Iran, 2013.

29. M. Alizadeh, M. R. Meybodi, **A. Rezvanian**, "A memetic algorithm based on particle swarm optimization for moving peaks problem," In Proceeding of the 18th Annual CSI Computer Conference (CSI 2013), Tehran, Iran, pp. 1-6, 2013.

30. M. Soleimani-Pouri, **A. Rezvanian**, M. R. Meybodi, "Finding a maximum clique using ant colony optimization and particle

swarm optimization in social networks," Proceedings of 2012 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM '12), pp. 58-61, 2012.

31. M. Soleimani-Pouri, **A. Rezvanian**, M. R. Meybodi, "Solving maximum clique problem in stochastic graphs using learning automata," In Proceedings of the 2012 Fourth International Conference on Computational Aspects of Social Networks (CASoN), pp. 115-119, Sao Carlos, Brazil, November 21-23, 2012.

32. S. Nabizadeh, **A. Rezvanian**, M. R. Meybodi, "A multi-swarm cellular PSO based on clonal selection algorithm in dynamic environments," In Proceedings of the 2012 International Conference on the Informatics, Electronics & Vision (ICIEV), pp. 482-486, 2012.

33. **A. Rezvanian**, M. R. Meybodi, "An adaptive mutation operator for artificial immune network using learning automata in dynamic environment," In Proceedings of the World Congress on Nature and Biologically Inspired Computing (NaBIC2010), pp. 486-490, Kitakyushu, Japan, December 15-17, 2010.

34. **A. Rezvanian**, M. R. Meybodi, "Improving artificial immune system using fuzzy logic," In Proceedings of the 10th Iranian Conference on Fuzzy Systems (IFS 2010), pp. 173-177, Tehran, Iran, July 13-15, 2010.

35. **A. Rezvanian**, M. R. Meybodi, "A new model for optimization using cooperative artificial immune system based on learning automata (CAIS-LA)," In Proceedings of the 15th Annual CSI Computer Conference (CSICC 2010), pp. 1-8, Tehran, Iran, February 20-22, 2010.

36. **A. Rezvanian**, M. R. Meybodi, "A new function optimization method using artificial immune system based on learning automata," In Proceedings of the 3rd Joint Congress on Fuzzy and Intelligent Systems (IFS 2009), Yazd, Iran, July 15-17, 2009.

37. M. F. Hassanabad, **A. Rezvanian**, M. R. Meybodi, "A new fast method for crawling the web using reinforcement learning," In Proceedings of the 14th International CSI Computer Conference (CSICC 2009), Tehran, Iran, March 2009.

38. **A. Rezvanian**, H. Bashiri, "Persian web characterization based on Saba web crawler," In Proceedings of the 12th International CSI Computer Conference (CSICC 2007), pp. 852-858, Tehran, Iran, February 2007.

- Research projects

1. **A. Rezvanian**, "Network analysis and learning automata," Institute for Research in Fundamental Sciences (IPM), Tehran, Iran (2019-2020).
2. **A. Rezvanian**, "Learning automata for complex social networks," School of Computer Science, Institute for Research in Fundamental Sciences (IPM), Tehran, Iran (2018-2019).
3. **A. Rezvanian**, "Modeling social network using stochastic graphs," School of Computer Science, Institute for Research in Fundamental Sciences (IPM), Tehran, Iran (2016-2018).
4. H. R. Afzali, S. M. Vahidipour, **A. Rezvanian**, "Second phase of Huceptron system implementation: social network of experts' part," Niroo Research Institute (NRI), Tehran, Iran (2017-2018).
5. P. Rasouli, **A. Rezvanian**, "Link prediction in social network sites," Sama College, Islamic Azad University, Hamedan, Iran (2014-2015).

Professional activities and scientific services

- Editorships

- Associate Editor, Human-centric Computing and Information Sciences.
- Associate Editor, CAAI Transactions on Intelligence Technology (Wiley).
- Associate Editor, The Journal of Engineering (Wiley).
- Associate editor, Data in Brief (Elsevier).
- Lead Guest Editor, Journal of Computational Science (Elsevier), Special Issue on New Applications of Learning Automata-based Techniques in Real-World Environments.
- Lead Guest Editor, Journal of Optimization, Special Issue on Soft Computing for Optimization in Complex Systems.

- Participation in technical reviews of journals

- ACM Computing Surveys
- ACM Transactions in Social Computing
- ACM Transactions on Intelligent Systems and Technology
- ACM Transactions on Knowledge Discovery from Data
- Applied Computing and Informatics
- Applied Soft Computing
- Artificial Intelligence Review
- CAAI Transactions on Intelligence Technology
- Computing and Informatics
- Computational Intelligence
- Communications in Nonlinear Science and Numerical Simulation
- Computing
- Computers & Operations Research
- Computer Methods and Programs in Biomedicine
- Connection Science
- Concurrency and Computation: Practice and Experience
- International Journal of Communication Systems
- International Journal of Computers Communications & Control
- International Journal of Web Research
- International Journal of Metaheuristics (IJMHEUR)
- Imaging Science Journal
- Journal of Experimental & Theoretical Artificial Intelligence
- Journal of Cellular Automata
- Journal of Computational Science
- Journal of Computational Design and Engineering
- Journal of the Franklin Institute
- Journal of Information Science
- Journal of Information Systems and Telecommunication (JIST)
- Journal of Information Processing Systems
- Journal of Intelligent Systems
- Journal of Mechanical Engineering Science
- Journal of Soft Computing and Information Technology (JSCIT)

- CSI Journal on Computer Science and Engineering
- European Journal of Operational Research
- Future Generation Computer Systems
- Human-centric Computing and Information Sciences.
- IEEE Access
- IEEE/ACM Transactions on Networking
- IEEE Communications Letters
- IEEE Intelligent Systems
- IEEE Transactions on Computational Social Systems
- IEEE Transactions on Control Systems Technology
- IEEE Transactions on Cybernetics
- IEEE Transactions on Industrial Informatics
- IEEE Transactions on Network Science and Engineering
- IEEE Transactions on Neural Networks and Learning Systems
- IEEE Transactions on Systems, Man, and Cybernetics, Part B
- IEEE Systems Journal
- IET Communications
- IET Image Processing
- Information Sciences
- INFORMS Journal on Computing
- Journal of Parallel and Distributed Computing
- International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems
- Knowledge-Based Systems
- Majlesi Journal of Electrical Engineering
- Memory & Cognition
- Network Modeling Analysis in Health Informatics and Bioinformatics.
- National Academy Science Letters
- Neurocomputing
- Physica A: Statistical Mechanics and its Applications
- Physics Letters A
- Quality & Quantity
- Scientific Reports
- Scientia Iranica
- Signal and Data Processing
- Soft Computing Journal (University of Kashan)
- SoftwareX
- Webology

- Participation in technical committees and reviews of conferences

- 11st International Conference on Web Research (ICWR), Tehran, Iran, April 16-17, 2025.
- 6th National Conference of Informatics Society of Iran, IPM, Tehran, February 27-28, 2025.
- 3rd cyber space conference, University of Tehran, Iran, 29-31 October 2024.
- 10th International Conference on Web Research (ICWR), Tehran, Iran, April 24-25, 2024.
- 5th National Conference of Informatics Society of Iran, IPM, Tehran, January 3-4, 2024.
- 9th International Conference on Web Research (ICWR), Tehran, Iran, May 3-4, 2023.
- 4th National Conference of Informatics Society of Iran, IPM, Tehran, January 3-4, 2023.
- 2022 International Conference on Intelligent Computing and Machine Learning (2ICML), Qingdao, China, December 16-18, 2022.
- 2022 6th Asian Conference on Artificial Intelligence Technology (ACAIT), Changzhou, China, December 9-11, 2022.
- 8th International Conference on Web Research (ICWR), Tehran, Iran, May 11-12, 2022.
- 3rd National Conference of Informatics Society of Iran, IPM, Tehran, January 12-13, 2022.
- 7th International Conference on Web Research (ICWR), Tehran, Iran, May 19-20, 2021.
- 2nd National Conference of Informatics Society of Iran, IPM, Tehran, December 23-24, 2020.
- 2020 11th International (Virtual) Conference on Information and Knowledge Technology (IKT), Tehran, Iran, December 22-23, 2020.
- 6th International Conference on Web Research (ICWR), Tehran, Iran, April 22-23, 2020.
- The 5th International Conference on Computer Games; Challenges and Opportunities, Isfahan, Iran, February 19, 2020.
- National Conference of Informatics Society of Iran, IPM, Tehran, January 15-16, 2020.
- 5th International Conference on Web Research (ICWR 2019), Tehran, Iran, April 2019.
- Second International Conference on Advanced Computational and Communication Paradigms, Sikkim, India, February 25 - 28, 2019.
- 4th national and 2nd international conference on Computer Games: Challenges and Opportunities (CGCO2019), Kashan, Iran, February 21, 2019.
- International Conference on Distributed Computing and High Performance Computing (DCHPC 2018), Qom, Iran, November 25-27, 2018.
- 4th International Conference on Web Research (ICWR 2018), Tehran, Iran, April 2018.
- 23rd Annual CSI Computer Conference (CSI 2018), Tehran, Iran, March 2018.
- 4th International Conference on Knowledge-Based Engineering and Innovation (KBEI-2017), Tehran, Iran, December 22, 2017.
- Second National & First International Conference on Soft Computing, Guilan, Iran, November 22-23, 2017.
- 9th International Conference on Information and Knowledge Technology (IKT 2017), Tehran, Iran, October 2017.
- The 19th CSI International Symposium on Artificial Intelligence and Signal Processing (AISP), Shiraz, Iran, October 2017.
- 3rd International Conference on Web Research (ICWR 2017), Tehran, Iran, April 2017.
- 22nd Annual CSI Computer Conference (CSICC 2017), Tehran, Iran, March 2017.
- 55th IEEE Conference on Decision and Control, Las Vegas, USA, December 12-14, 2016.
- 8th International Conference on Information and Knowledge Technology (IKT 2016), Hamedan, Iran, September 7-8, 2016.
- 2nd International Conference on Web Research (ICWR2016), Tehran, Iran, April 2016.
- First National Conference on Soft Computing, Guilan, Iran, November 2015.
- 18th Iranian Student Conference on Electrical Engineering (ISCEE 2015), Mashhad, Iran, 2015.
- 7th International Conference on Information and Knowledge Technology (IKT 2015), Urmia, Iran, May 2015.
- 20th Annual CSI Computer Conference (CSI 2015), Mashhad, Iran, March 2015.

- 19th Annual CSI Computer Conference (CSI 2014), Tehran, Iran, March 2014.
- Symposium on Computer Science and Software Engineering (CSSE), Tehran, Iran, 2013.
- Symposium on Computer Networks and Distributed Systems (CNDS), Tehran, Iran, 2013.
- Symposium on Artificial Intelligence and Signal Processing (AISP), Tehran, Iran, 2013.
- 18th Annual CSI Computer Conference (CSI 2013), Tehran, Iran, March 2013.
- National Congress on Electrical, Computer and Information Technology Engineering, Mashhad, Iran, November 7-9, 2012.
- 13th Iranian Student Conference on Electrical Engineering (ISCEE 2012), Kashan, Iran, August 28-30, 2012.
- Head session of Biomedical Engineering session in the 14th Iranian Student Conference on Electrical Engineering (ISCEE 2011), Kermanshah, Iran, September 6-8, 2011.
- 3rd National Conference on Computer Engineering and Information Technology (CEIT 2011), SAMA, Hamedan, Iran, February 17, 2011.
- 2011 IEEE Symposium on Computers & Informatics (ISCI 2011), Kuala Lumpur, Malaysia, March 20-22, 2011.
- International Conference on Electronic Devices, Systems & Applications (ICEDSA 2011), Kuala Lumpur, Malaysia, April 25-27, 2011.
- First Middle East Conference on Biomedical Engineering (MECBME 2011), Sharjah, UAE, February 21-24, 2011.
- 2010 IEEE Conference on Open Systems (ICOS 2010), Kuala Lumpur, Malaysia, December 5-8, 2010.
- 2010 International Conference on Computer Applications & Industrial Electronics (ICCAIE 2010), Kuala Lumpur, Malaysia, December 5-8, 2010.
- 4th National Command, Control, Computer, Communications, and Intelligence (IC4I 2010), Tehran, Iran, November 10-11, 2010.
- 2010 IEEE Symposium on Industrial Electronics & Applications (ISIEA 2010), Penang, Malaysia, October 3-6, 2010.
- Head session of Evolutionary Algorithms session in the 13th Iranian Student Conference on Electrical Engineering (ISCEE 2010), Tehran, Iran, September 13-17, 2010.
- 13th Iranian Student Conference on Electrical Engineering (ISCEE 2010), Tehran, Iran, September 15-17, 2010.
- 7th International Symposium on Mechatronics and its Applications (ISMA 2010), Sharjah, United Arab Emirates, April 20-22, 2010.
- 12th Iranian Student Conference on Electrical Engineering (ISCEE 2009), Tabriz, Iran, August 13-15, 2009.
- 2nd National Conference on Computer/Electrical and IT Engineering (CEIC'09), SAMA, Hamedan, Iran, February 19, 2009.

Talks

- Speaker "Varieties of Network Sampling Methods for Network Analysis," in University of Science and Culture, Tehran, Iran, December 21, 2022.
- Speaker "Learning Automata," in University of Science and Culture, Tehran, Iran, December 13, 2021.
- Speaker "AI Research in Academia and Industry: Iran/World," in University of Science and Culture, Tehran, Iran, December 11, 2021.
- Speaker, "Introduction to Vertical Social Networks," in Ershad Damavand Institute of Higher Education, Tehran, Iran, November 11, 2020.
- Speaker, "Introduction to Data Mining," in Iranian Research Institute for Information Science and Technology (IranDoc), Tehran, Iran, February 10, 2020.
- Speaker, "Automatic Vandalism Detection in Wikipedia," 16th anniversary of the Persian Wikipedia, Cafe Bazaar, Tehran, Iran, January 18, 2020.
- Speaker, "How to Write a Good Research Proposal," in University of Science and Culture, Tehran, Iran, January 1, 2020.
- Speaker, "Evolutionary algorithms and their applications in solving engineering problems," in University of Science and Culture, Tehran, Iran, December 31, 2019.
- Speaker, "Time-varying Network Analysis," 34th International Power System Conference (PSC), Niroo Research Institute (NRI), Tehran, Iran, December 10, 2019.
- Speaker, "Introduction to social network analysis and its software," in Iranian Research Institute for Information Science and Technology (IranDoc), Tehran, Iran, December 10, 2019.
- Speaker, "How to Write a Good Research Proposal," in Ershad Damavand Institute of Higher Education, Tehran, Iran, November 13, 2019.
- Speaker, "Introduction to Data Mining," in Iranian Research Institute for Information Science and Technology (IranDoc), Tehran, Iran, October 22, 2019.
- Speaker, "Learning Automata for Complex Social Networks," School of Computer Science, Institute for Research in Fundamental Sciences (IPM), Tehran, Iran, October 10, 2019.
- Speaker, "Introduction to social network analysis and its software," in Iranian Research Institute for Information Science and Technology (IranDoc), Tehran, Iran, September 17, 2019.
- Speaker, "Introduction to social network analysis and its software," in Iranian Research Institute for Information Science and Technology (IranDoc), Tehran, Iran, July 30, 2019.
- Speaker, "Introduction to social network analysis and its software," in Iranian Research Institute for Information Science and Technology (IranDoc), Tehran, Iran, May 28, 2019.
- Speaker, "Wikipedia and Machine Learning," conference on Wikipedia: an encyclopedia for anyone, Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran, May 01, 2019.
- Speaker, "Introduction to Scholarly Publishing" 33rd International Power System Conference (PSC), Niroo Research Institute (NRI), Tehran, Iran, October 23, 2018.
- Speaker, "Network analysis: methods and tools," 33rd International Power System Conference (PSC), Niroo Research Institute (NRI), Tehran, Iran, October 23, 2018.
- Speaker, "Introduction to social network analysis and its software," in Iranian Research Institute for Information Science and Technology

(IranDoc), Tehran, Iran, July 19, 2018.
- Speaker, "Social Networks for experts," in Niroo Research Institute (NRI), Tehran, Iran, May 07, 2018.
- Speaker, "Social Networks: a Scientometrics approach," in Niroo Research Institute (NRI), Tehran, Iran, February 05, 2018.
- Speaker, "Scholarly Publishing," in Payame Noor University, Hamedan, Iran, March 09, 2017.
- Speaker, "Social network analysis," Sama College, Islamic Azad University, Hamedan, Iran, December 24, 2015.
- Speaker, "How to evaluate scholarly publishing," in Hamedan University of Technology, Iran, December 09, 2015.
- Speaker, "How To Publish a Paper: An Introduction to Scholarly Publishing," in Payame Noor University, Hamedan, Iran, November 24, 2015.
- Speaker, "Cloud computing: introduction to concepts and models," Sama college, Islamic Azad University, Hamedan, Iran, May 2015.
- Speaker, "Complex networks: introduction, approaches, applications and current researches," Hamedan University of Technology, Iran, December 2014.
- Speaker, "Artificial intelligence: Introduction and Applications," Sama college, Islamic Azad University, Hamedan, Iran, December 2014.
- Speaker, "Digital Image Processing: Introductions and Applications," Sama college, Islamic Azad University, Hamedan, Iran, May 08, 2013.
- Speaker, "Artificial Intelligence and Social Network Analysis," Sama college, Islamic Azad University, Hamedan, Iran, October 27, 2012.
- Keynote Speaker, "Introduction to Social Networks," Conference of New Approaches in Computer Engineering and Information Technology, Rudsar, Iran, May 26, 2011.
- Speaker, "Evolutionary Computation" Workshop on Soft Computing in Engineering, Bu-Ali Sina University, Hamedan, Iran, December 8, 2010.

Teachings

- Machine learning (graduate course), Amirkabir University of Technology (Tehran Polytechnic), Tehran (Fall 2021, Fall 2022).
- Machine learning (graduate course), University of Science & Culture, Tehran (Fall 2021, Spring 2022, Fall 2022).
- Principles of Compiler Design (undergraduate course), University of Science & Culture, Tehran (Fall 2020, Spring 2021, Fall 2021, Spring 2022, Fall 2022, Spring 2023).
- Information Retrieval (graduate course), University of Science & Culture, Tehran (Spring 2020).
- Complex Dynamical Networks (graduate course), University of Science & Culture, Tehran (Fall 2019, Fall 2020, Spring 2021, Spring 2022, Fall 2022, Spring 2023).
- Theory of Formal Languages and Automata (undergraduate course), University of Science & Culture, Tehran (Spring 2019, Fall 2019, Spring 2020, Fall 2020, Spring 2021, Fall 2021, Spring 2022, Fall 2022, Spring 2023).
- Software Testing (undergraduate course), Ershad Damavand Institute of Higher Education, Tehran (Spring 2019, Fall 2019, Spring 2020, Fall 2020).
- Artificial Intelligence (undergraduate course), (undergraduate course), University of Science & Culture, Tehran (Spring 2019, Fall 2019, Spring 2020, Fall 2020, Fall 2022).
- Systems Analysis and Design (undergraduate course), University of Science & Culture, Tehran (Fall 2018, Spring 2019, Fall 2021).
- Human-Computer Interaction (undergraduate course), Ershad Damavand Institute of Higher Education, Tehran (Fall 2018).
- Social Network Analysis (graduate course), Sadra Institute of Higher Education, Tehran (Fall 2016, Spring 2018, Fall 2018).
- Computational Intelligence (undergraduate course), Hamedan University of Technology (Fall 2016).
- Internet Engineering (undergraduate course), Hamedan University of Technology (Fall 2016).
- IT Engineering I (undergraduate course), Hamedan University of Technology, (Fall 2016).
- Complex Network Theory (graduate course), Islamic Azad University of Hamedan, (Fall 2015, Spring 2016, Spring 2017, Fall 2017).
- Applied Optimization (undergraduate course), Hamedan University of Technology (Fall 2015).
- Advanced Artificial Intelligence (graduate course), Islamic Azad University of Hamedan, (Spring 2015, Fall 2015, Spring 2016, Fall 2016, Spring 2017).
- Evolutionary Computing (graduate course), Islamic Azad University of Hamedan, (Spring 2015, Spring 2017).
- Artificial Intelligence (undergraduate course), Hamedan University of Technology, (Fall 2014, Fall 2015, Spring 2016, Spring 2017).
- Data Mining (undergraduate course), Hamedan University of Technology, (Fall 2014, Spring 2016, Spring 2017, Fall 2017).
- Multimedia Systems (undergraduate course), Hamedan University of Technology, (Spring 2015).
- Technical Presentation Methods (Research methods), (undergraduate course), Hamedan University of Technology, (Spring 2015, Fall 2015).
- Artificial Intelligence (undergraduate course), Payame Noor University of Hamedan, (2008-2010, Spring 2015, Fall 2015, Spring 2016).
- Information Storage and Retrieval (File Structures), (undergraduate course), Payame Noor University of Hamedan, 2008-2010.
- Web Programming (undergraduate course), University of Applied Science and Technology, Hamedan, (2009-2010).
- Technical Presentation, (undergraduate course), Islamic Azad University of Hamedan, (2008-2010).
- Computer Workshop, (undergraduate course), Payame Noor University of Hamedan, (Fall 2010).

Awards and Honors

- Top researcher in University of Science and Culture, Tehran, Iran 2021.
- Professor Hesabi Doctoral Dissertation Award, 2018.
- Iran's National Elites Foundation award, 2017.
- Top 1 percent reviewer of computer science, 2017.
- The 4th Rank among Ph.D. students in Computer Engineering (Artificial Intelligence), Amirkabir University of Technology (Tehran Polytechnic), Iran, 2016.

- Top researcher in Islamic Azad University of Hamedan, Iran. Fall 2010.
- The best-selected head session in the 13th Iranian Student Conference on Electrical Engineering (ISCEE 2010), Tehran, Iran, 13 - 17 September 2010.
- The 1st Rank among M.Sc. students in computer engineering (Artificial Intelligence), Islamic Azad University of Qazvin, Iran, 2009.
- The 4th Rank among B.Sc. students in Computer Engineering, Bu-Ali Sina University of Hamedan, Iran, 2007.
- The 1st rank in student council election society of computer enquiring, Bu-Ali Sina University, Hamedan, Iran, 2003.
- The 2nd rank in student council society election high school, Bu-Ali Sina high school, Hamedan, Iran, 2001.
- The 5th rank in the Bu-Ali Sina high school entrance exam, Hamedan, Iran, 1999.

Memberships

- IEEE Computational Intelligence Society (IEEE CI)
- Iranian Fuzzy Systems Society (IFSS)
- Iranian Young Researchers Club (YRC)
- Association for Computing Machinery (ACM)
- Iranian Society of Machine Vision & Image Processing (MVIP)
- Informatics Society of Iran (ISI)

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