



Resume



First name: Seyed Raouf

Last name: Khayami

Academic title: Assistant professor

Area of Specialty: Computer and Information Technology Engineering

Areas of Interest: Enterprise Architecture, IT management, Business process management,
Data Mining, Medical Information Technology

Projects & Research Activities:

1. Evaluation and improvement of business processes development and management approaches basis on information technology in accordance with one of the enterprise architecture patterns in telecommunication network of the country
2. Identifying factors affecting the implementation of electronic government in civil registration organization
3. Consulting and supervising the implementation of the financial and administrative system improvement project
4. Development of accounting system data architecture
5. Enterprise architecture technical and engineering course for Steel companies

6. Revision of the master plan and compilation of the information and communication technology development plan of Shiraz municipality
7. Adaptive organizational architecture of information technology for Shiraz Electricity Distribution Company
8. Compilation of information technology personnel management plan for Mashhad Cancer Charity
9. Compilation of RFP for information technology enterprise architecture project
10. Information technology architecture of Farsan company (As Is)

Selected publication

1. Boveiri HR., Khayami R., Javidan R., MehdiZadeh AR., “Medical Image Registration Using Deep Neural Networks: A Comprehensive Review”, *Computers & Electrical Engineering*, Volume 87, October 2020, <https://doi.org/10.1016/j.compeleceng.2020.106767>
2. Parsaei MR., Boveiri HR., Javidan R., Khayami R., “Telesurgery QoS improvement over SDN based on a Type-2 fuzzy system and enhanced cuckoo optimization algorithm”, *International Journal of Communication Systems*, 2020
3. Hassanpour A., Moradikia M., Adeli H, Khayami R., Shamsinejadbabaki P., “A novel end-to-end deep learning scheme for classifying multi-class motor imagery electroencephalography signals”, *Expert Systems*, December 2019, <https://doi.org/10.1111/exsy.12494>, Volume36, Issue6
4. HaddadPajouh, H., Khayami, R., Dehghantanha, A. et al. AI4SAFE-IoT: an AI-powered secure architecture for edge layer of Internet of things. *Neural Comput & Applic* 32, 16119–16133 (2020). <https://doi.org/10.1007/s00521-020-04772-3>, Published: 25 February 2020 (ISI IF: 4.664)
5. Sajjadnia Z., , Khayami, R., Moosavi M.R., “Preprocessing Breast Cancer Data to Improve the Data Quality, Diagnosis Procedure, and Medical Care Services”, *Cancer Informatics*, 2020
6. Boveiri H. R., Khayami R., Elhoseny M., Gunasekaran M., “An Efficient Swarm-Intelligence Approach for Resource Management in Cloud-based Internet of Things,” *Journal of*

Ambient Intelligence and Humanized Computing (Springer) (ISI-WoS, 2017-IF = 1.423), Vol. 10, No. 9, pp. 3469–3479, 2019 (Online: 2018). <https://doi.org/10.1007/s12652-018-1071-1>

7. Boveiri H. R., Javidan R., & Khayami R., “An Intelligent Hybrid Approach for Task Scheduling in Cluster Computing Environments as an Infrastructure for BioMedical Applications,” *Expert Systems (Wiley)* (ISI-WoS, 2018-IF = 1.505), Online First, 12 February 2020, <https://doi.org/10.1111/exsy.12536>

8. Homayoun S., Dehghantanha A., Ahmadzadeh M., Hashemi S., Khayami R., Choo K.R. & Newton D.E., “DRTHIS: Deep ransomware threat hunting and intelligence system at the fog layer”, *Future Generation Computer Systems*, Vol. 90. Pages 94-104, North-Holland, 2019, doi: 10.1016/j.future.2018.07.045

9. Homayoun S., Ahmadzadeh M., Hashemi S., Dehghantanha A. & Khayami R., “BoTShark: A deep learning approach for botnet traffic detection”, In: Dehghantanha A., Conti M., Dargahi T. (eds) *Cyber Threat Intelligence. Advances in Information Security*, vol 70. Springer, ChamCyber Threat Intelligence, 137-153 (BookChapter), doi:10.1007/978-3-319-73951-9_7 https://link.springer.com/chapter/10.1007/978-3-319-73951-9_7

10. HaddadPajouh, H., Dehghantanha, A., Khayami, R. & Choo, K.R, “A deep Recurrent Neural Network based approach for Internet of Things malware threat hunting”, *Future Generation Computer Systems*, Vol. 85. Pages 88-96, North-Holland, 2018, doi:10.1016/j.future.2018.03.007 (ISI IF:5.768) <https://www.sciencedirect.com/science/article/pii/S0167739X1732486X>

11. HaddadPajouh, H., Dehghantanha, A., Khayami, R. & Choo, K.R, “Intelligent OS X malware threat detection”, *Journal of Computer Virology and Hacking Techniques*, Vol. 14, Pages 213-233, Springer Paris, 2018, doi: 10.1007/s11416-017-0307-5 <https://link.springer.com/article/10.1007/s11416-017-0307-5>

12. Homayoun S., Dehghantanha, A., Ahmadzadeh M., Hashemi S. & Khayami, R., “Know abnormal, find evil: frequent pattern mining for ransomware threat hunting and intelligence”, *IEEE Transactions on Emerging Topics in Computing*, vol.PP, no.99, pp.1-1, 2017, doi: 10.1109/TETC.2017.2756908 (ISI, Q2) DOI:10.1109/TETC.2017.2756908

13. Tabatabaei S. M., Asadi F., Moghaddasi H., Khayami S. R., Niroomand M., "A Study of Population based Diabetes Registry in Developed Countries", JOJ Nursing & Health Care (JOJNHC), 2018; 8(2), DOI: 10.19080/JOJNHC.2018.08.555732
14. HaddadPajouh, H., Javidan, R., Khayami, R., Dehghantanha, A. & Choo, K.R, "A Two-layer Dimension Reduction and Two-tier Classification Model for Anomaly-Based Intrusion Detection in IoT Backbone Networks", IEEE Transactions on Emerging Topics in Computing, accepted, vol.PP, no.99, pp.1-1, 2016, doi: 10.1109/TETC.2016.2633228 (ISI IF: 4.989, Q2) <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7762123&isnumber=6558478>
15. Mohammad Reza Parsaei, Mohammad Javad Sobouti, Seyed Raouf Khayami, Reza Javidan, "Network traffic classification using machine learning techniques over software defined networks", International Journal of Advanced Computer Science and Applications, 8(7) January 2017, DOI: 10.14569/IJACSA.2017.080729
16. Boveiri, H. & Khayami R., "Static Homogeneous Multiprocessor Task-Graph Scheduling Using Ant Colony Optimization", KSII Transactions on Internet and Information Systems, (ISI-WoS, 2016-IF = 0.452), Vol. 11, No. 6, pp. 3046-3070, 2017.
17. Ghelichkhani M. & Khayami R., "A Knowledge Sharing Model for Iranian Educational and Research Organizations", Indian Journal of Science and Technology, Vol 8(28), Oct. 2015 (ISI).
18. Gharghi, M., Parvinnia, E., & Khayami, R. "Designing a Fuzzy Rule Base System to Head Cluster Election in Wireless Sensor Networks". Indian Journal of Science and Technology, Vol. 6, No. 5, May 2013, pp. 4410-4415 (ISI).
19. Khayami, R. "Evaluation and Analyzing of Enterprise Architecture Extensibility", AWERProcedia Information Technology & Computer Science. Vol. 3, August 2013, pp 488-494. <http://sproc.org/archives/index.php/P-ITCS/article/viewArticle/1799>
20. Khayami R., "Qualitative characteristics of enterprise architecture", Procedia ComputerScience, Vol. 3, 2011, pp 1277-1282 (Elsevier).

21. Miri Rostami S., Ahmadzadeh M., R. Khayami, "A hybrid data mining approach for predicting breastcancer survivability on imbalanced SEER", 1st International Conference on New Research Achievements in Electrical and Computer Engineering (ICNRAECE), 2016.
22. Rasti Z., Darajeh A., Khayami R., Sanatnama H., "Systematic literature review in the area of Enterprise Architecture during past 10 years", 2nd International Conference on Knowledge-Based Engineering and Innovation (KBEI), 2015.
<http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7436150&isnumber=7435986>
23. Hajizadeh, N, Khayami, S. R., Akbari, R. and Jahanbazi, P. "Empirical study on parallel computation of Cyclomatic complexity Using Message Passing Interface", 1st National Conference on Distributed Computing and Big Data Processing, DCBDP2015.
24. Jafari, H., Alinezhad, A. & Khayami, R., "Implementation of a parallel method for the graph coloring problem using MPI and verification of the number of processors on it", The 5th Conference on Information and Knowledge Technology, Shiraz, IRAN, 2013.
<http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6620033&isnumber=6620027>
25. Parvizi, R., Oghbaei, F. & Khayami, R., "Using COBIT and ITIL frameworks to establish the alignment of business and IT organizations as one of the critical success factors in ERP implementation", The 5th Conference on Information and Knowledge Technology, Shiraz, IRAN, 2013 <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6620078&isnumber=6620027>
26. Hajizadeh, N, Khayami, S. R., Akbari, R. & Jahanbazi, P., "Empirical study on parallel computation of Cyclomatic complexity Using Message Passing Interface", 1st National Conference on Distributed Computing and Big Data Processing, Tabriz, 2015.
27. Moheb M., Khayami R., "Proposing a Method for measuring the confidentiality of Enterprise Architecture Based on COBIT", International Symposium on Advance in Science and Technology(SASTech), Hormozgan University, Bandar-Abbass, IRAN, 2013.
28. Sajjadnia Z., Khayami S.R., Moosavi S.M, Dayyani M., "Preprocessing breast cancer dataset to improve data quality for classification", The 12th International Breast Cancer Congress, Shahid Beheshti University of Medical Sciences, 2017

29. Khayami R. and Parvinnia E., "A Navel Stack Based Dynamic Programming For Reducing Memory Complexity Applied On DNA Sequences.", International Conference of Information Engineering (WCE2008), London, U.K., 2008
30. R. Khayami, A. Towhidi, and K. Ziarati, "Measurable Quality Characteristics of a Software System on Software Architecture Level", International Conference of Information Engineering (WCE2008), London, U.K., 2008
31. K. Ziarati, R. Khayami, E. Parvinnia, G. Afroozi Milani, " Virtual Collaboration Readiness Measurement a Case Study in the Automobile Industry", Advances in Computer Science and Engineering, Communications in Computer and Information Science, Vol 6, 2009, pp 913-916 (10.1007/978-3-540-89985-3_132)
32. K. Ziarati, R. Khayami, E. Parvinnia, "A Framework for Implementing Virtual Collaborative Networks – Case Study on Automobile Components Production Industry", Advances in Computer Science and Engineering, Communications in Computer and Information Science, Vol 6, 2009, pp 909-912 (10.1007/978-3-540-89985-3_131)