



Hossein Momeni

Assistant Professor

Contact Information

Postal Address:

Computer Engineering Department,
Faculty of Engineering,
Golestan University,
Alghadir Street, Gorgan, Golestan, Iran.
Zip Code: 44188-88369

Office Phone: +98-17-32441014

Office Fax: +98-17-32430516

E-mail: h.momeni@gu.ac.ir hmomeni@gmail.com

Education

Ph.D. in Software Engineerin,

School of Computer Engineering, The Iran University of Science and Technology (IUST), Tehran, Iran,
September 2006-July 2012

Thesis Title: Task Assignment and Scheduling in Wireless Sensor-Actor Network in Support of Real-Time Applications

Supervisor: Professor Mohsen Sharifi

M.Sc. in Software Engineering,

School of Computer Engineering, The Iran University of Science and Technology (IUST), Tehran, Iran,
September 2002-October 2004

Thesis Title: Implementation and Testing Improving Quality of Service in Real Time CORBA Component Model,

Supervisor: Professor Mohsen Sharifi

B.Sc. in Software Engineering,

Computer Engineering Department, Faculty of Engineering, Ferdowsi University of Mashhad, Mashhad, Iran,

September 1997-September 2001

Thesis Title: Security Machanisms in Virtual Private Network

Supervisor: Assistant Professor Abdolreza Savadi

Academic Positions

- Dean of Engineering Faculty, Golestan University, 2014-2015
- Associate Dean (Education and Research) of Engineering Faculty, Golestan University, 2014-2015
- Chancellor of Golestan University of Applied Science and Technology, 2012-2014
- Faculty Member, Gorgan University of Agricultural Sciences and Natural Resources, Iran, 2005-2014
- Member, Computer Society of Iran, 2005-present
- Dean, Education Computer Center, Gorgan University of Agricultural Sciences and Natural Resources, Iran, 2004- 2006
- Head of Computer Department, Mirdamad University, Gorgan, Iran, 2009-2012
- Member, Informatic Committee of Golestan University, Gorgan, Iran, 2012- present
- Member, Distributed Systems Laboratory, School of Computer Engineering, IUST, 2003-2012
- Member, The Institute of Electrical and Electronics Engineers (IEEE), 2005-present

Research Interests

- Distributed Systems (Grid/Cloud/WSANs)
- Real-time Systems
- Dependable Computing
- Software Engineering
- Model Checking

Honors

- Ranked 1st student in 2007 in Ph.D. duration, School of Computer Engineering, IUST.
- Ranked 2nd among all software engineering graduates, entered in 2002 in M.Sc.duration, School of Computer Engineering, IUST.

University Teaching Experiences

Graduate Level

- Advanced Operating Systems
- Software Project Management
- Advanced Database
- Software Testing
- Advanced Software Engineering

Undergraduate Level

- Operating Systems
- Algorithms Design and Analysis
- Software Engineering I, II

- Data Structure

Industrial Interests

- Web-Based Applications Development
- Database Applications
- Software Project Management
- Business Process Management
- ICT Master Planning
- Enterprise Application

Publications

Authored Books:

1. Gorgan Strategic Plan 14014, Municipality of Gorgan, 2012.
2. The Role of Information Technology in City Development and Management, 2012.

Journal papers:

1. **Hossein Momeni** and Fatemeh Mahdavi, “Efficient Web Services Composition with Fuzzy-Genetic Approach” International Journal of Mechatronics, Electrical and Computer Technology (IJMEC), ISSN: 2305-0543, Volume 5, Number 14, pp. 98-112, January 2015.
2. **Hossein Momeni** and Ali Yavari, “Complexity Evaluation of Aspect-oriented Software with Adaptive Neuro Fuzzy Inference System” International Journal of Basic Sciences and Applied Research(IJBSAR), ISSN(Print): 2147-3749, Volume 3, pp. 22-30, 2014.
3. **Hossein Momeni** and Shiva Zahedian, “Aspect-Oriented Software Maintainability Assessment Using Adaptive Neuro Fuzzy Inference System” The Journal of Mathematics and Computer Science (TJMCS), Volume 12, Number 3, pp. 243-252, August 2014.
4. **Hossein Momeni**, Homayoun Motameni and Mahtab Larimi, “A Neuro-Fuzzy based Approach to Software Quality Requirements Prioritization” International Journal of Applied Information Systems (IJ AIS), ISSN: 2249-0868(Print), Volume 7, Number 7, August 2014.
5. Hassan Fazli and **Hossein Momeni**, “Comparison of Bayesian Networks and Lazy Model Algorithms in Intrusion Detection Systems Based on Data Mining” Journal of World's Electrical Engineering and Technology (JWEET), Volume 3, Number 2, August, 2014.
6. **Hossein Momeni**, Ali Yavari, Fatemeh Goli and Mahmoud Ahmadi Chakoli, “Optimality Evaluation of Maintenance Strategy Using LVQ Neural Network” International Journal of Mechatronics, Electrical and Computer Technology (IJMCE), Volume 4, Number 12, pp. 798-810, July 2014.

7. Fatemeh Goli, **Hossein Momeni** and Ali Yavari, "A New Method for Searching Keyword in Cloud Servers Using ANFIS" The Journal of Mathematics and Computer Science (TJMCS), Volume 11, Number 4, pp. 300-308, July 2014.
8. Mostafa Nemati and **Hossein Momeni**, "Black Holes Algorithm with Fuzzy Hawking radiation", International Journal of Scientific & Technology Research (IJSTR), Volume 3, Number 6, June, 2014.
9. Hassan Fazli and **Hossein Momeni**, "Presenting a Model for Making a Comparison of Bayesian Networks and Decision Tree Algorithms in Intrusion Detection Systems-Based on Data Mining" Journal of World's Electrical Engineering and Technology (JWEET), Volume 3, Number 1, February, 2014.
10. Ayda Mazandarani and **Hossein Momeni**, "QoS-aware Scientific Application Scheduling Algorithm in Cloud Environment" Journal of Computer Engineering and Intelligent Systems (CEIS), Volume 4, Number 12, pp. 21-30, 2013.
11. Mostafa Nemati, **Hossein Momeni** and Navid Bazrkar, " Binary Black Holes Algorithm" International Journal of Computer Applications (IJCA), Volume 79, Number 6, pp. 36-42, October 2013.
12. Ali Yavari, Maede Gholbaghi and **Hossein Momeni**, "Assessment of Effective Risk in Software Projects based on Wallace's Classification Using Fuzzy Logic" International Journal of Information Engineering and Electronic Business (IJIEEB), Volume 5, Number 4, pp. 58-64, October 2013.
13. Ali Yavari, Maryam Musavi, **Hossein Momeni** and Mahnaz Hamzehnia, "Measuring the Failure Rate in Service-Oriented Architecture Using Fuzzy Logic" The Journal of Mathematics and Computer Science (TJMCS), Volume 7, Number 3, pp. 160-170, May 2013.
14. **Hossein Momeni** and Mohsen Sharifi, "A Context-Aware Task Distribution Approach for Wireless Sensor Actor Networks", Ad Hoc Sensor and Wireless Networks Journal, Volume 19, Number 3-4, pp. 189-212, 2013.
15. **Hossein Momeni**, Mohsen Sharifi and Morteza Okhovvat, "A Mathematical Approach to Reduce the Mean Number of Waiting Tasks in Wireless Sensor Actor Networks", Information, Published by International Information Institute, Tokyo, Japan, Volume 15, Number 1, January 2012.
16. **Hossein Momeni**, Mohsen Sharifi and Morteza Okhovvat, "Distributed Assignment of Real-Time Tasks in Wireless Sensor Actor Networks", IEICE Electronics Express Journal, ISSN: 1349-2543, Volume 8, Number 7, pp. 429-435, April 2011.
17. Morteza Okhovvat, Mohsen Sharifi and **Hossein Momeni**, "Task Allocation to Actors in Wireless Sensor Actor Networks: An Energy and Time Aware Technique", Procedia Computer Science Journal, ISSN: 1877-0509, Elsevier Publishing LTD, Volume 3, pp. 484-490, 2011.
18. Mohsen Sharifi, **Hossein Momeni** and Vahid Rafe, "Optimal Real-Time Task Allocation in Wireless Sensor Actor Networks", Australian Journal of Basic and Applied Sciences, INSInet Publication, ISSN 1991-8178, Volume 4, Number 8, pp. 3455-3466, August 2010.
19. **Hossein Momeni**, Mohsen Sharifi, Adel Torkaman Rahmani and Vahid Rafe, "*CORBA Components Collocation Optimization Enhanced with Local ORB-Like Services Support*", Lecture Notes in Computer Science (LNCS), No. 3291, Springer-Verlag, pp. 1143-1148, October 2004.

Conference papers:

1. **Hossein Momeni** and Elham Zinati, “ A Game Theoric-based Approach to Workflow Scheduling and Assignment for Cloud Computing Environment” The 7th International Conference on Informtion and Knowledge Technology(IKT2015), Urmia University, Iran, 26 May 2015.
2. Zahra Neishabouri and **Hossein Momeni**, “ A Genetic Algorithm-based Approach to Predecting Reliability in Web Services” The 7th International Conference on Informtion and Knowledge Technology(IKT2015), Urmia University, Iran, 26 May 2015.
3. **Hossein Momeni** and Maryam Kardgar, “TETS: Time and Energy-aware Task Scheduling in Cloud Computing Systems” National Conference on Information & Communication Technology, Tehran, Iran, February 2015.
4. **Hossein Momeni** and Mehdi Manavi, “Optimal Software Component Selection in CBSE using Genetic Algorithm” National Conference on Information & Communication Technology, Tehran, Iran, February 2015.
5. Bahare Mohajer, **Hossein Momeni** and Soheila Karbasi, “Distributed Data warehousing with MRD Solution in Cloud Computing Environment” National Conference on Information & Communication Technology, Tehran, Iran, February 2015.
6. **Hossein Momeni** and Maryam Geraeli Sheikh, “ Regression Test Cases Prioritization based on Cost-aware” Second Conference on Computer Science and Information Technology (CITConf), Tehran, Iran, February 2015.
7. Mahnaz Vahmiayn, Rouhollah Yousefpour and **Hossein Momeni**, “Applying Artificial Neural Networks for Face Recognition to AdaBoost Method” Second Computer Conference Science on Computer and Information Technology , Tabriz, Iran, November 2014.
8. **Hossein Momeni** and Maryam Geraeli Sheikh, “ CAHB: An approach to Selecting and Prioritization of Regression Testing” Second Computer Conference Science on Computer and Information Technology , Tabriz, Iran, November 2014.
9. **Hossein Momeni** and Vahideh Amiri “ QoS-aware Task Assignment in Cloud Computing Environment using Exchange Market Algorithm” Second Computer Conference Science on Computer and Information Technology , Tabriz, Iran, November 2014.
10. **Hossein Momeni**, Hadi Salimi and Farzaneh Rahmani, “Design and Implementation of Domain Specific Language to Software Testing” The 6th Conference on Information and Knowledge Technology (IKT2014), Shahrud, Iran, 2014.

11. Bahareh Asadi, Marjan Mohamadzadeh, **Hossein Momeni** and Hamed Mirkarimi, “Investigate the Affecting Factors on Selecting of Gorgan Natural Tourist Areas: Decision Support System”, The 4th International Conference on Environmental Challenges and Dendrochronology, Sari, Iran, May, 2014.
12. Seyed Hossein Khalili, **Hossein Momeni**, “A New Method to Clustering of Test Data Set using Imperialist Competitive Algorithm” The 1st National Conference on Science, Engineering and New Idea, April 2014.
13. Seyed Hossein Khalili, **Hossein Momeni**, “Test-Based Development GUI using UML” The 1st National Conference on Science, Engineering and New Idea, April 2014.
14. Bahareh Asadi, Marjan Mohamadzadeh, **Hossein Momeni** and Hamed Mirkarimi, “ The Role of Decision Support System to Tourist Guidance in order to Selecting Appropriate Places” 1st National Conference on Planning of Environmental, Hamedan, Iran, March 2014.
15. Mohammad Rezaqolipour, **Hossein Momeni** and Hadi Kamfar, “ Application of Fuzzy Logic in Software Development” 1th National Innovation Conference on Computer Engineering and Information Technology, Tonekabon, December 2013.
16. Hassan Fazli and **Hossein Momeni**, “A Method to Reducing Cost of Running the E-Commerce Strategy Using Cloud Computing Services” 1th National Innovation Conference on Computer Engineering and Information Technology, Tonekabon, December 2013.
17. Ayda Mazandarani and **Hossein Momeni**, “Autonomous Self-Testing to Managing of Virtual Resources in Cloud Environment” 1st National Innovation Conference on Computer Engineering and Information Technology, Tonekabon, Iran, December 2013.
18. Ayda Mazandarani, Ali Yavari and **Hossein Momeni**, “Scientific Workflow Scheduling in Cloud Environemnt” 1st National Innovation Conference on Computer Engineering and Information Technology, Tonekabon, Iran, December 2013.
19. Ayda Mazandarani and **Hossein Momeni**, “A QoS-aware Validation Architecture in Cloud Environment” 1st National Innovation Conference on Computer Engineering and Information Technology, Tonekabon, Iran, December 2013.
20. Hassan Fazli and **Hossein Momeni**, “ A Proposed Model to Comparison Artificial Neural Network and Bayesian Network in Data Mining-based Intrusion Detection System” 1st National Innovation Conference on Computer Engineering and Information Technology, Tonekabon, Iran, December 2013.
21. Mohammad Rezaqolipour and **Hossein Momeni**, “Constructing Software Testing Model using Bayesian Networks and Testing Metrics” 1st Technical Conference on Science, Technology and System of Electrical Engineering, Tehran, Iran, October 2013.

22. Mohammad Rezaqolipour and **Hossein Momeni**, “ Software Testing Modeling using Bayesian Networks” 1st National Conference in Computer Engineering and Information Retrieval, Roodsar, Iran, October 2013.
23. Mansoureh Younesi, Mahsa Boustani and **Hossein Momeni**, “ A Model-based Approach to Performance Testing of Web-based Application using Petri Nets” 1st National Conference in Computer Engineering and Information Retrieval, Roodsar, Iran, October 2013.
24. Fatemeh Mahdavi and **Hossein Momeni**, “ Automated Web Service Generation using Fuzzy Genetic Approach” 8th Symposium on Advances in Science and Technology, Mashhad, Iran, December 2013.
25. Hassan Fazli and **Hossein Momeni**, “Comparison Study of Decision Tree and Support Vector Machines -based Data Mining Algorithms for Intrusion Detection” 8th Symposium on Advances in Science and Technology, Mashhad, Iran, December 2013.
26. Hassan Fazli and **Hossein Momeni**, “Comparison Study of Rule and Support Vector Machines -based Data Mining Algorithms for Intrusion Detection” 8th Symposium on Advances in Science and Technology, Mashhad, Iran, December 2013.
27. Hassan Fazli and **Hossein Momeni**, “Comparison Study of Lazy and Support Vector Machines -based Data Mining Algorithms for Intrusion Detection” 8th Symposium on Advances in Science and Technology, Mashhad, Iran, December 2013.
28. Hassan Fazli and **Hossein Momeni**, “Comparison Study of Bayesian Network and Support Vector Machines -based Data Mining Algorithms for Intrusion Detection” 8th Symposium on Advances in Science and Technology, Mashhad, Iran, December 2013.
29. Hassan Fazli and **Hossein Momeni**, “Comparison Study of Artificial Neural Network and Support Vector Machines -based Data Mining Algorithms for Intrusion Detection” 8th Symposium on Advances in Science and Technology, Mashhad, Iran, December 2013.
30. Mahtab Larimi, Homayn Motameni and **Hossein Momeni**, “ A Novel Approach to Prioritization of Software Quality Requirements using Neuro-Fuzzy System” 10th National Conference on Computer and Intelligent Systems, Tabriz, Iran, September 2013.
31. Hassan Fazli and **Hossein Momeni**, “ A Model-based Approach to Graphical User Interface Testing” 16th Iran"s Electrical Engineering Student Conference, Kazeroon, Iran, September 2013.
32. Hassan Fazli and **Hossein Momeni**, “ Security Consideration to Model Driven Architecture in Software Developmnet” 16th Iran"s Electrical Engineering Student Conference, Kazeroon, Iran, September 2013.

33. Mahtab Larimi and **Hossein Momeni**, “Novel approach to Software Size Estimation based on Goal Driven Extended Use Case Point”, 13th Iranian Conference on Fuzzy Systems, Qazvin, Iran, August 2013.
34. Zohreh Mansuri and **Hossein Momeni**, “An Adaptive Process Model based on Model Driven Architecture”, The 5th Conference on Information and Knowledge Technology (IKT2013), Shiraz University, Shiraz, Iran, May 2013.
35. Moein Lahashinejhad and **Hossein Momeni**, “A Distributed Approach to Fighting State Space Explosion in Model Checking Technique Using Map Reduce Framework”, The 5th Conference on Information and Knowledge Technology (IKT2013), Shiraz University, Shiraz, Iran, May 2013.
36. Zahra Karimian and **Hossein Momeni**, “ A Secure Architecture to Software Testing Services in Cloud Computing”, The 5th Conference on Information and Knowledge Technology (IKT2013), Shiraz University, Shiraz, Iran, May 2013.
37. Zahra Karimian and **Hossein Momeni**, “A Reliable Software Testing Architecture for Cloud Computing Environment” National Congress on Electrical, Computer and Information Technology Engineering, Mashhad, Iran, 2013.
38. Zohreh Mansuri and **Hossein Momeni**, “Umbrella Activities Development in Model Driven Architecture Methodologies” 1st National Conference on Computer Science, Engineering and Information Technology, Shiraz, Iran, 2013.
39. Moein Lahashinejhad and **Hossein Momeni**, “ Reducing State Space in Model Checking Approach using Symbolic Model” 1st National Conference on Computer Science, Engineering and Information Technology, Shiraz, Iran, 2013.
40. Zeynab Zabihi, Ali Yavari and **Hossein Momeni**, “ Risk Rate Assesment in Software Development Projects using Fuzzy Approach” International Conference on Non-linear Modeling and Optimization, Shomal University, Amol, Iran, August 2012.
41. Mehdi Ebrahimi, Shahram Barghi and **Hossein Momeni**, “A User Interface Validation Approach in Web Application” International Conference on Computer Communication and Information Technology (CSCCIT 2011), Tabriz, Iran, 2011.
42. Milad Jalalimehr, Mahyar Tehrani and **Hossein Momeni**, “ Random Testing of Database Application using Water Flow Technique”, International Conference on Computer Communication and Information Technology (CSCCIT 2011), Tabriz, Iran, 2011.
43. Mahbubeh Esfahani and **Hossein Momeni**, “A Flexible Development Model for Platform-as-Service in Cloud Computing”, International Conference on Computer Communication and Information Technology (CSCCIT 2011), Tabriz, Iran, 2011.

44. Ehsan Khodarahmi, Mohammad Abdollahi and **Hossein Momeni**, “ A Quantum-based Architecture to Real-Time Distributed System Testing”, International Conference on Computer Communication and Information Technology (CSCCIT 2011), Tabriz, Iran, 2011.
45. Shiva Khalili, Shadi Hajibagheri and **Hossein Momeni**, “User Input Validation Testing of Web Application using XML Schema”, International Conference on Computer Communication and Information Technology (CSCCIT 2011), Tabriz, Iran, 2011.
46. Mona Lotfi and **Hossein Momeni**, “An Framework to Evaluation of Component Quality in Component-based Software Development”, International Conference on Computer Communication and Information Technology (CSCCIT 2011), Tabriz, Iran, 2011.
47. Khadijeh FarhadianFard, Shabboo Mohammadiani and **Hossein Momeni**, “ Reduction of State Space in Model Checking Technique using Binary Decision diagram”, International Conference on Computer Communication and Information Technology (CSCCIT 2011), Tabriz, Iran, 2011.
48. Maedeh Tashakorian, Farnaz Zeidi and **Hossein Momeni**, “A Weighted Graph-based Approach for Test Case Prioritization of Web Service Regression Testing”, International Conference on Computer Communication and Information Technology (CSCCIT 2011), Tabriz, Iran, 2011.
49. Mohammad Vahidpour and **Hossein Momeni**, “ A Test-Driven based Agile Method for Mobile Software Development” , International Conference on Computer Communication and Information Technology (CSCCIT 2011), Tabriz, Iran, 2011.
50. Zahra Mansouri, Elham Habibzadeh and **Hossein Momeni**, “VEX: A New Approach to Performance Testing of Web Applications” , International Conference on Computer Communication and Information Technology (CSCCIT 2011), Tabriz, Iran, 2011.
51. Morteza Okhovvat, Mohsen Sharifi and **Hossein Momeni**, “Task Allocation to Actors in Wireless Sensor Actor Networks: An Energy and Time Aware Technique”, World Conference on Information Technology 2010 (WCIT 2010), Bahcesehir University, Istanbul, Turkey, October 6-10, 2010.
52. **Hossein Momeni**, Vahid Rafe and Mohsen Sharifi, "Energy-aware Task allocation in Wireless Sensor Actor Networks", The 2nd International Conference on Computer and Electrical Engineering (ICCEE 2010), Dubai, UAE, December, 28-30, 2009.
53. **Hossein Momeni**, Mohsen Sharifi and Saeid Sedighian, "A New Approach to Task Allocation in Wireless Sensor Actor Networks", The 2009 IEEE International Conference on Computational Intelligence, Communication Systems and Networks ([CICSyn2009](#)), Indore, India, July 23-25, 2009.
54. **Hossein Momeni**, Vahid Rafe, Mohsen Sharifi and Adel Torkaman Rahmani, "A Graph Transformation-Based Approach to Task Allocation in Wireless Sensor Actor Networks", The 21st

IEEE International Conference on Software Engineering and Knowledge Engineering ([SEKE2009](#)), Boston, USA, July 1-3, 2009.

55. Saeed Sedighian, Mohsen Sharifi, Vahid Azhari and **Hossein Momeni**, "Service Requirements for Actor-Actor Coordination through Sensor Nodes in Wireless Sensor Actor Networks", Fifth International IEEE Conference on Innovations in Information Technology (Innovations08), Al Ain, United Arab Emirates, December 2008.
56. **Hossein Momeni**, Omid Kashefi and Hadi Sharifi, " How to Realize self healing Operating Systems? ", The 3rd IEEE International Conference on Information and Communication Technologies: from Theory to Applications (ICTTA'08), Damascus, Syria, 7-11 April 2008.
57. Mohsen Sharifi and **Hossein Momeni**, "Providing Local Event Services to CORBA Collocated Components", In Proceedings of 11th Annual International Computer Society of Iran Computer Conference (CSICC'06), Institute for Studies in Theoretical Physics and Mathematics (IPM), Tehran, Iran, January 24-26, 2006.
58. **Hossein Momeni**, Mohsen Sharifi, Adel Torkaman Rahmani and Vahid Rafe, "Providing Local ORB-Like Services to Collocated CORBA Components", In Proceeding of the IEEE Conference on Cluster and HeteroPar(Cluster2005), Boston, Masachusete, USA, 2005.
59. **Hossein Momeni** and Yadi Hezarjaribi, "Technological Occupation and its effect in Education", 2th Annual National Conference on Occupation, Tehran, Iran,2004.