



## **Amir Masoud Rahmani**

Amir Masoud Rahmani is currently working as a Professor for Islamic Azad University, science and research branch, Tehran. He is the author/co-author of more than 220 publications in technical journals and conferences. His research interests are in the areas of distributed systems, wireless sensor networks, Internet of Things and evolutionary computing.

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### **RESEARCH INTERESTS**

**Distributed systems, Cloud computing, Internet of Things, Wireless networks and Evolutionary computing**

### **COURSES TAUGHT (in Persian)**

- Advanced Operating Systems (Distributed systems)
- Wireless Networks
- Fault Tolerant Computing (Dependable System Design)
- Advanced Computer Networks
- Neural Networks
- Big data (in English)

### **EDITORIAL-BOARD**

- **Digital Communications and Networks**
- **International Journal of Intelligent Systems Technologies and Applications**
- **Journal of Advances in Computer and Technology**

### **BACKGROUND**

Professor of computer engineering in the department of computer engineering, Islamic Azad University, Science and Research branch, Tehran, Iran.

2016-2017: ICT manager, Islamic Azad University, Science and Research branch, Tehran, Iran.

2014-2016: Dean, faculty of engineering, Islamic Azad University, Science and Research branch, Tehran, Iran.

2010-2012: Dean, faculty of engineering, Islamic Azad University, Science and Research branch, Tehran, Iran.

2005-2010: Chair, master science division, department of computer engineering, Islamic Azad University, Science and Research branch, Tehran, Iran.

## JOURNAL PUBLICATIONS

### ISI journals

1. A Souri, S Hosseinpour, AM Rahmani, "Personality classification based on profiles of social networks' users and the five-factor model of personality",
2. *Human-centric Computing and Information Sciences* 8 (1), 24, 2018.
3. MR Mesbahi, AM Rahmani, M Hosseinzadeh, "Reliability and high availability in cloud computing environments: a reference roadmap", *Human-centric Computing and Information Sciences* 8 (1), 20, 2018.
4. YE Sola, F Zargari, AM Rahmani, "Blind image deblurring based on multi-resolution ringing removal", *Signal Processing* 154, 250-259, 2019.
5. P Asghari, AM Rahmani, HHS Javadi, "Service composition approaches in IoT: A systematic review", *Journal of Network and Computer Applications* 120, 61-77, 2018.
6. M Ghobaei-Arani, AA Rahmanian, A Souri, AM Rahmani, "A moth-flame optimization algorithm for web service composition in cloud computing: Simulation and verification", *Software: Practice and Experience* 48 (10), 1865-1892, 2018. A Yousefipour, AM Rahmani, M Jahanshahi, "Energy and cost-aware virtual machine consolidation in cloud computing", *Software: Practice and Experience* 48 (10), 1758-1774, 2018
7. A Souri, M Nourozi, AM Rahmani, N Jafari Navimipour, "A model checking approach for user relationship management in the social network", *Kybernetes*, 2018.
8. R Mohamadi Bahram Abadi, AM Rahmani, SH Alizadeh, "Server consolidation techniques in virtualized data centers of cloud environments: A systematic literature review", *Software: Practice and Experience* 48 (9), 1688-1726, 2018.
9. S Shadroo, AM Rahmani, "Systematic survey of big data and data mining in internet of things", *Computer Networks* 139, 19-47, 2018.
10. M Ahmadinia, A Movaghar, AM Rahmani, "Ontology-Based Modelling and Information Extracting of Physical Entities in Semantic Sensor Networks", *IETE Journal of Research*, 1-17, 2018.
11. L Azari, AM Rahmani, HA Daniel, NN Qader, "A data replication algorithm for groups of files in data grids", *Journal of Parallel and Distributed Computing* 113, 115-126, 2018.

12. M Hosseini Shirvani, AM Rahmani, A Sahafi, "An iterative mathematical decision model for cloud migration: A cost and security risk approach", *Software: Practice and Experience* 48 (3), 449-485, 2018.
13. H Mahini, M Dehghan, H Navidi, AM Rahmani, "Game theory approach to peer-to-peer video streaming: a comprehensive survey", *International Journal of Autonomous and Adaptive Communications Systems* 11, 2018.
14. A Souri, AM Rahmani, N Jafari Navimipour, "Formal verification approaches in the web service composition: A comprehensive analysis of the current challenges for future research", *International Journal of Communication Systems*, e3808, 2018.
15. M Mohammadrezaei, ME Shiri, AM Rahmani, "Identifying Fake Accounts on Social Networks Based on Graph Analysis and Classification Algorithms", *Security and Communication Networks* 2018, 2018.
16. B Anari, J Akbari Torkestani, AM Rahmani, "A learning automata-based clustering algorithm using ant swarm intelligence", *Expert Systems*, e12310, 2018.
17. M Ahmadinia, A Movaghar, AM Rahmani, "Semantic Data Gathering of Physical Entities in Semantic Sensor Networks Using Software Agents", *Information Technology And Control* 47 (2), 167-183, 2018.
18. RMB Abadi, AM Rahmani, SH Alizadeh, "Self-adaptive architecture for virtual machines consolidation based on probabilistic model evaluation of data centers in Cloud computing", *Cluster Computing*, 1-23, 2018.
19. A Pourkabirian, MDT Fooladi, E Zeinali, AM Rahmani, "Dynamic resource allocation for OFDMA femtocell networks: a game-theoretic approach", *Telecommunication Systems*, 1-9, 2018.
20. A Souri, NJ Navimipour, AM Rahmani, "Formal verification approaches and standards in the cloud computing: a comprehensive and systematic review", *Computer Standards & Interfaces*, 2017.
21. MR Mesbahi, AM Rahmani, M Hosseinzadeh, Highly reliable architecture using the 80/20 rule in cloud computing datacenters, *Future Generation Computer Systems* 77, Elsevier, 77-86, 2017
22. S Siadat, AM Rahmani, H Navid, Identifying fake feedback in cloud trust management systems using feedback evaluation component and Bayesian game model, *The Journal of Supercomputing* 73 (6), Springer, 2682-2704, 2017
23. Amir Masoud Rahmani, Leila Azari, Helder A. Daniel, A File Group Data Replication Algorithm for Data Grids. *Journal of Grid Computing*. 15(3): 379-393 (2017)
24. S Razzaghzadeh, AH Navin, AM Rahmani, M Hosseinzadeh, Probabilistic modeling to achieve load balancing in Expert Clouds, *Ad Hoc Networks* 59, 12-23, Elsevier, 2017
25. MB Karimi, A Isazadeh, AM Rahmani, QoS-aware service composition in cloud computing using data mining techniques and genetic algorithm, *The Journal of Supercomputing* 73 (4), 1387-1415, Springer, 2017
26. B Shojaiemehr, AM Rahmani, NN Qader, Cloud computing service negotiation: A systematic review, *Computer Standards & Interfaces*, Elsevier, 2017.
27. EJ Ghomi, AM Rahmani, NN Qader, "Load-balancing Algorithms in Cloud Computing: A Survey", *Journal of Network and Computer Applications*, , Elsevier, 2017.

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29. B Anari, JA Torkestani, AM Rahmani, "Automatic data clustering using continuous action-set learning automata and its application in segmentation of images", *Applied Soft Computing* 51, 253-265, Elsevier,2017.
30. M Zarei, AM Rahmani, "Analysis of vehicular mobility in a dynamic free-flow highway", *Vehicular Communications* 7, 51-57, Elsevier, 2017.
31. A Hanani, AM Rahmani, A Sahafi, "A multi-parameter scheduling method of dynamic workloads for big data calculation in cloud computing", *The Journal of Supercomputing*, Springer,1-27, 2017.
32. S Keshvadi, AM Rahmani, H Rostami, "Recommend top-k most downloaded files in the chord-based P2P file-sharing system", *Peer-to-Peer Networking and Applications* 10 (1), 208-215, Elsevier, 2017.
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34. M Effatparvar, M Dehghan, AM Rahmani, "A comprehensive survey of energy-aware routing protocols in wireless body area sensor networks", *Journal of medical systems* 40 (9), 201, 2, 2016.
35. M Zarei, AM Rahmani, 2016, "Renewal Process of Information Propagation in Delay Tolerant VANETs", *Wireless Personal Communications* 89 (4), 1045-1063, Springer.
36. M Zarei, AM Rahmani, H Samimi, 2016, "Connectivity analysis for dynamic movement of vehicular ad hoc networks", *Wireless Networks*, 1-16, Springer.
37. MB Karimi, A Isazadeh, AM Rahmani, 2016, "QoS-aware service composition in cloud computing using data mining techniques and genetic algorithm", *The Journal of Supercomputing*, Springer, 1-29
38. Mir Alireza Hakamian, Amir Masoud Rahmani, *Evaluation of isolation in virtual machine environments encounter in effective attacks against memory. Security and Communication Networks* 8(18): 4396-4406 (2015)
39. AM Rahmani, Z Fadaie, AT Chronopoulos, 2015, "Data placement using Dewey Encoding in a hierarchical data grid", *Journal of Network and Computer Applications*, Elsevier, 49, 88–98.
40. H Mahini, M Dehghan, H Navidi, A Masoud Rahmani, 2015. " GaMe-PLive: a new game theoretic mechanism for P2P live video streaming" to appear in *International Journal of Communication Systems*, John Wiley publishing.
41. Nahideh Derakhshanfard , Masoud Sabaei, Amir Masoud Rahmani, "CPTR: conditional probability tree based routing in opportunistic networks", to appear in *Wireless Networks*,(Springer), 2015.
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43. NJ Navimipour, AM Rahmani, AH Navin, M Hosseinzadeh, 2015, "Expert Cloud: A Cloud-based framework to share the knowledge and skills of human resources", *Computers in Human Behavior*, Elsevier 46, 57-74.

44. NJ Navimipour, AH Navin, AM Rahmani, M Hosseinzadeh, 2015. "Behavioral modeling and automated verification of a Cloud-based framework to share the knowledge and skills of human resources", *Computers in Industry, Elsevier*, 68 (2015) 65–77.
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47. E Gholami, AM Rahmani, MDT Fooladi, 2015, "Adaptive and Distributed TDMA Scheduling Protocol for Wireless Sensor Networks, to appear in *Wireless Personal Communications, Springer*, 1-23.
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53. A. Rezaee, A.M. Rahmani, A. Movaghar, M. Teshnehlab, 2014. "Formal process algebraic modeling, verification, and analysis of an abstract Fuzzy Inference Cloud Service", *The Journal of Supercomputing, Springer Publishing*, 67 (2), 345-383.
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55. Sahar Adabi, Ali Movaghar, Amir Masoud Rahmani, 2014. "Bi-level fuzzy based advanced reservation of Cloud workflow applications on distributed Grid resources", *Journal of Supercomputing* 67(1), 175-218.
56. Abbas Ali Rezaee, Mohammad Hossein Yaghmaee, Amir Masoud Rahmani, 2014. "Optimized Congestion Management Protocol for Healthcare Wireless Sensor Networks", *Wireless Personal Communications, Springer Publishing*, 75(1): 11-34.
57. Mohammad Reza Ebrahimi Dishabi, Mohammad Abdollahi Azgomi, Amir Masoud Rahmani, 2013. "An Improved Technique for Privacy Preserving Clustering Based on Daubechies-2 Wavelet Transform" *International Journal of Wavelets, Multiresolution and Information Processing*, 11(5).

58. Sepideh Adabi, Ali Movaghar, Amir Masoud Rahmani, Hamid Beigy, Hengameh Dastmalchy-Tabrizi, 2014, "A new fuzzy negotiation protocol for grid resource allocation", to appear in *Journal of Network and Computer Applications*, Elsevier, 37: 89-126.
59. Abbas Ali Rezaee, Mohammad Hossein Yaghmaee, Amir Masoud Rahmani, Amir Hossein Mohajerzadeh, "HOCA: Healthcare aware Optimized Congestion Avoidance and Control Protocol for Wireless Sensor Networks", to appear in *Journal of Network and Computer Applications*, Elsevier.
60. Ebrahim Mahdipour, Amir Masoud Rahmani, Saeed Setayeshi, "Importance sampling for Jackson networks with customer impatience until the end of service", to appear in *Journal of Network and Computer Applications*, Elsevier, 36(4), 1091-110.
61. Marjan Abdeyazdan, Saeed Parsa, Amir Masoud Rahmani, 2013. "Task graph pre-scheduling, using Nash equilibrium in game theory", *The Journal of Supercomputing*, Springer Publishing, 64(1), 177-203.
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63. Mohammad Kheyrandish, Saeid Setayeshi, Amir Masoud Rahmani, 2012. "Disfluency Detection on Spontaneous Speech Using Learning Cellular Automata", *International Journal on Artificial Intelligence Tools*, World Scientific, 21(5).
64. Sepideh Adabi, Ali Movaghar, Amir Masoud Rahmani, Hamid Beigy, 2013. "Negotiation strategies considering market, time and behavior functions for resource allocation in computational grid", *The Journal of Supercomputing* 66(3), Springer Publishing, 1350-1389.
65. Nazanin Saadat, Amir Masoud Rahmani, 2012, "PDDRA: A new pre-fetching based dynamic data replication algorithm in data grids", *Future Generation Computer Systems*, Elsevier, Volume 28, Issue 4, Pages 666–681.
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71. Reza Nourmandi-Pour, Ahmad Khademzadeh, Amir Masoud Rahmani: An IEEE 1149.1-based BIST method for at-speed testing of inter-switch links in network on chip. *Microelectronics Journal* Elsevier 41(7): 417-429 (2010).

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75. Abbaspour M., Rahmani A. M. and Teshnehlab M., 2005. "Carbon monoxide Prediction Using novel Intelligent Network", *International Journal of Environmental Science and Technology (IJEST)*, Vol. 1(4), pp. 257-264.

## Non-ISI journals

76. MH Shirvani, AM Rahmani, A Sahafi, "A survey study on virtual machine migration and server consolidation techniques in DVFS-enabled cloud datacenter: taxonomy and challenges", *Journal of King Saud University-Computer and Information Sciences*, 2018.
77. M Alimardani, AM Rahmani, H Zarrabi, "DTMP: Energy Consumption Reduction in Body Area Networks Using a Dynamic Traffic Management Protocol", *Journal of Advances in Computer Engineering and Technology* 3 (4), 1-10, 2017.
78. G Emadi, AM Rahmani, H Shahhoseini, "Task Scheduling Algorithm Using Covariance Matrix Adaptation Evolution Strategy (CMA-ES) in Cloud Computing", *Journal of Advances in Computer Engineering and Technology* 3 (3), 135-144, 2017.
79. B Rahmati, AM Rahmani, A Rezaei, "Data replication-based scheduling in cloud computing environment", *Journal of Advances in Computer Engineering and Technology* 3 (2), 75-80, 2017.
80. Mona Mohammadi, Amir Masoud Rahmani:, *De-centralised dynamic task scheduling using hill climbing algorithm in cloud computing environments. IJCC* 6(1): 79-94 (2017)
81. N Saadat, AM Rahmani, "A Two-Level Fuzzy Value-Based Replica Replacement Algorithm in Data Grids", *International Journal of Grid and High Performance Computing (IJGHPC)* 8 (4), 2016.
82. M Mesbahi, AM Rahmani, 2016, "Load Balancing in Cloud Computing: A State of the Art Survey", *International Journal of Modern Education and Computer Science* 8 (3), 64.
83. V Kiani, Z Mohseni, AM Rahmani, 2015, "Real Time Scheduling for CPU and Hard Disk Requirements-Based Periodic Task with the Aim of Minimizing Energy Consumption", *I.J. Information Technology and Computer Science*, 10, 54-60
84. SH Erfani, HHS Javadi, AM Rahmani, 2015, "Analysis of Key Management Schemes in Dynamic Wireless Sensor Networks", *ACSIJ Advances in Computer Science: an International Journal*, Vol. 4, Issue 1, No.13.
85. A Abbasi, AM Rahmani, E Zeinali Khasraghi, 2015. "Reliability and Availability Improvement in Economic Data Grid Environment Based On Clustering Approach", *Journal of Advances in Computer Engineering and Technology* 1 (4), 1-14
86. SED Rahmat, AM Rahmani, 2015. "A New Scheduling Method for Workflows on Cloud Computing", *International Journal of Advanced Research in Computer Science* 6 (6)

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88. D Rahdari, AM Rahmani, N Aboutaleb, AS Karambasi, 2015, "A Distributed Fault Tolerance Global Coordinator Election Algorithm in Unreliable High Traffic Distributed Systems", *mecs-press.org*.
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90. Alireza Souri, Amir Masoud Rahmani, 2014. "A Survey for Replica Placement Techniques in Data Grid Environment", *International Journal of Modern Education and Computer Science*, 6(5),:46-51.
91. S. Setayesh, A. Harounabadi, A. M. Rahmani, 2014, "Presentation of an Extended Version of the PageRank Algorithm to Rank Web Pages Inspired by Ant Colony Algorithm", *International Journal of Computer Applications* 85 (17), 7-10.
92. A.A. Rezaee, M.H. Yaghmaee, A.M. Rahmani, 2013. "COCM: Class Based Optimized Congestion Management Protocol for Healthcare Wireless Sensor Networks", *Wireless Sensor Network*, 5, 137-149.
93. A. Y. Mansour, A. H. Navin, A. M. Rahmani, 2013, "JI Accumulator-Based Processor for Educational Purposes", *International Journal of Advanced Research in Computer Science* 4 (2)
94. M. Abdeyazdan, S. Parsa, A. M. Rahmani, 2013, "Pre-scheduling and Scheduling of Task Graph on Homogeneous Multiprocessor Systems", *Journal of Advances in Computer Research* 4 (1), 13-29
95. S.N. Jafari, J.J. Amirbandi, A.M. Rahmani, 2013. "Applying a natural intelligence pattern in cognitive robots", *Advances in Computer Science: an International Journal* 2 (2), 31-37
96. M. Firoozbahrami, A. M. Rahmani, 2012, "Suitable Node Deployment based on Geometric Patterns Considering Fault Tolerance in Wireless Sensor Networks", *International Journal of Computer Applications* 60 (7)
97. Danial Rahdari, Amir Masoud Rahmani, Afsane Arabshahi, 2012, "Fault Tolerant Message Efficient Coordinator Election Algorithm in High Traffic Bidirectional Ring Network", *International Journal of Information Technology and Computer Science*, 5(1), 15.
98. S. Teymouri, A.M. Rahmani, 2012, "A Continues Double Auction Method for Resource Allocation in Economic Grids", *International Journal of Computer Applications* 43(17), 7-11.
99. H. Barati, A. Movaghar, A.M. Rahmani, A. Sarmast, 2012. "A Distributed Energy Aware Clustering Approach for Large Scale Wireless Sensor Network", *International Journal on Technical and Physical Problems of Engineering (IJTPE)*, 13(4) 4, pp. 125-132.
100. Narjes Davari, Amir Masoud Rahmani, Leila Taghizadeh, 2012. "TKGS: Tourists Keeping and Guiding System", *International Journal of Computer Applications*, 48(22), 13-18.
101. Mehdi EffatParvar, AmirMasoud Rahmani, MohammadReza EffatParvar, Mehdi Dehghan, "Heap Base Coordinator Finding with Fault Tolerant Method in Distributed



- Systems", International Journal of Computer Technology and Applications", 2011, Vol. 2(4), pp. 761-766.*
102. Nasrin Sheikhi, Amir Masoud Rahmani, Mehran Mohsenzadeh, Reza Veisisheikhrobat, "An Unsupervised Feature Selection Method Based On Genetic Algorithm", *International Journal of Computer Science and Information Security, Publication January 2011, Volume 9 No. 1, pp. 116-120*
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  105. Tania Taami, Amir Masoud Rahmani, Ahmad Khademzade, 2010. "Overclocked Load Scheduling in Large Clustered Reservation Systems", *International Journal of Computer Science and Information Security Vol 8(4), pp. 320-325*
  106. Mamosian H., Rahmani A. M. and Abbasi Dezfouli M., 2010. "A New Clustering Approach based on Page's Path Similarity for Navigation Patterns Mining", *International Journal of Computer Science and Information Security, Vol. 7(2), pp. 9-14.*
  107. Mirzaei Somarin A., Motee Ghader H., Rahmani A. M. and Ghafari A., 2010, "A New Clustering Algorithm for Increasing of Lifetime in sensor Networks", *International Journal of Computer and Network Security, Vol. 2(2), pp. 41-44.*
  108. Rahmani A. M., Hossaini Z. and Setayeshi S. 2009. "Link Processing for Fuzzy Web Pages Clustering and Classification", *European Journal of Scientific Research Vol. 27 (4), pp. 620-627.*
  109. Mojarrad M., Rahmani A. M. and Mohebi M., 2009. "Detection and Pose Estimation of People in Images", *World Academy of Science, Engineering and Technology, Vol. 49, pp. 985-990.*
  110. Hooshyar B. A. and Rahmani A. M., 2009, "Memetic Algorithm to Time-Cost Trade off in Project Scheduling", *International Journal of Computer Sciences and Engineering Systems, Vol. 3 (3).*
  111. Rahmani A. M. and Rezvani M., 2009. "A Novel Genetic Algorithm using Simulated Annealing for Static Task Scheduling in Distributed Systems", *International Journal of Computer Theory and Engineering, Vol. 1, No. 1, pp. 1-6.*
  112. Mahdipour E., Rahmani A. M. and Setayeshi S., 2009. "Importance Sampling for a Markov Modulated Queuing Network with Customer Impatience until the End of Service", *Informatica Economică, vol. 13, no. 3, pp. 106-118.*
  113. Razavi N., Rahmani A. M. and Mohsenzadeh M., 2009. "A Context-based Trust Management Model for Pervasive Computing Systems", *International Journal of Computer Science & Information Security, Vol. 6, No. 1, pp. 137-142.*
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## CONFERENCE PUBLICATIONS

125. N Maleki, AM Rahmani, M Conti, "POSTER: An Intelligent Framework to Parallelize Hadoop Phases", *Proceedings of the 27th International Symposium on High-Performance Parallel*, 2018.
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