

Curriculum Vitae



Hamid Reza Boveiri

PERSONAL INFORMATION

Date of Birth: March 1981
Full-Time Faculty Member (Senior Lecturer),
Department of Computer Science and Engineering,
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EDUCATIONAL BACKGROUND

A.Sc. Degree: Computer Science (Software Engineering), Technology and Engineering Department, Shahid Chamran University, Ahvaz, Iran, 2001-2003.
B.Sc. Degree: Software Engineering, Technology and Engineering Department, Birjand University, Birjand, Iran, 2003-2005.
M.Sc. Degree: Software Engineering, IAU, Sciences and Researches Branch, Ahvaz, Iran, 2007-2009.
- Thesis: "Scanned Persian Printed Text Recognition Using Fuzzy-Neural Networks."
Ph.D. Degree: PhD Candidate, Information Technology (IT), Communication Networks, Shiraz University of Technology, Shiraz, Iran, 2016-ongoing. (Privileged Student-GPA: 19.23 out of 20.00).

TEACHING EXPERIENCE

- Part-time Instructor, IAU, Shoushtar Branch, Shoushtar, Iran, 2005-2010.
- Part-time Instructor, IAU, Ahvaz Branch, Ahvaz, Iran, 2009.
- Part-time Instructor, Sama College, IAU, Shoushtar Branch, Shoushtar, Iran, 2006-2010.
- Part-time Instructor, Payam-Nour University of Shoushtar, Shoushtar, Iran, 2009-2011.
- Full-Time Tenured Faculty Member, Computer Science and Engineering Department, Sama College, IAU, Shoushtar Branch, Shoushtar, Iran, 2010-Now.

COURSES TAUGHT

- Programming Languages (Assembly, C++, VB and MATLAB)
- Image Processing
- Operating Systems
- Introduction to Database

PUBLICATIONS – BOOKS

1. Parihar, V., Boveiri, H. R., *Image Segmentation: A Guide to Image Mining*, ICSES-ITIPPR, 2018.

PUBLICATIONS – BOOK CHAPTERS

1. Boveiri, H. R., “Cluster Computing with an Efficient Task Scheduler as an Infrastructure for Big Multimedia Processing,” *Handbook of Multimedia Information Security: Techniques and Applications*, Springer, 2018.

PUBLICATIONS – WoS (SCI) JOURNALS

1. Boveiri H. R., “An incremental ACO-based approach to task assignment to processors for multiprocessor scheduling,” *Frontiers of Information Technology & Electronic Engineering* (Springer) (ISI-WoS, 2016-IF = 0.770), Vol. 18, No. 4, pp. 498-510, 2017.
2. Boveiri H. R., “A Novel ACO-Based Static Task Scheduling Approach for Multiprocessor Environments,” *International Journal of Computational Intelligence Systems* (Taylor & Francis) (ISI-WoS, 2016-IF = 1.140), Vol. 9, No. 5, pp. 800-811, 2016.
3. Boveiri H. R., “Multiprocessor Task Graph Scheduling Using a Novel Graph-Like Learning Automata,” *International Journal of Grid and Distributed Computing* (ISI-Listed), Vol. 8, No. 1, pp. 41-54, Jun. 2015.
4. Boveiri H. R. and 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.
5. Boveiri H. R., Javidan R., and Khayami R., “An Intelligent Hybrid Approach for Task Scheduling in Cluster Computing Environments,” *Cluster Computing* (Springer) (ISI-WoS, 2016-IF = 2.040), under review, submitted: 2017.
6. Boveiri H. R. and Khayami R., “An Efficient High-Performance Approach Based on Max-Min Ant System for Task-Graph Scheduling in Multiprocessor Environments,” *International Journal of Future Generation Communication and Networking*, (ISI-Listed), accepted for publishing, 2018.
7. Parsaie M. R., Boveiri H. R., Javidan R., and Khayami R., “Telesurgery QoS Improvement Over SDN Based on a Hybridized Type-2 Fuzzy System and Enhanced Cuckoo Optimization Algorithm,” *Journal of Network and Computer Applications* (Elsevier) (ISI-WoS, 2016-IF = 3.50), under review, submitted: 2018.
8. Boveiri H. R. and Khayami R., “On the Performance of Metaheuristics: A Different Perspective,” *Metahuristics*, (Springer), under review, submitted: 2018.
9. Boveiri H. R., Elhoseny M., “A-COA: An Adaptive Cuckoo Optimization Algorithm for Continuous and Combinatorial Optimization,” *Neural Computing and Applications* (Springer) (ISI-WoS, 2017-IF = 4.213), accepted: 2018.

10. Boveiri H. R., "A Discretized Self-Adaptive Mutated Cuckoo Optimization Algorithm for Static Task-Graph Scheduling in Mesh-Topology Cluster Computing Environments," *Applied Soft Computing* (Elsevier) (ISI-WoS, 2016-IF = 3.541), under review, submitted: 2018.
11. 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), accepted 2018.

PUBLICATIONS – OTHER JOURNALS

1. Boveiri H. R., "Persian Printed Numeral Characters Recognition Using Geometrical Central Moments and Fuzzy Min-Max Neural Network," *International Journal of Signal Processing* (SCOPUS), vol. 6, no. 2, pp. 76-82, 2010.
2. Boveiri H. R., "Persian Printed Numerals Classification Using Extended Moment Invariants," in *World Academy of Science, Engineering and Technology* (SCOPUS), vol. 63, 2010, pp. 167-174.
3. Boveiri H. R., "On Pattern Classification Using Statistical Moments," *International Journal of Signal Processing, Image Processing and Pattern Recognition*, vol. 3, no. 4, pp. 15-24 Dec. 2010.
4. Boveiri H. R., "Transformation-Invariant Classification of Persian Printed Digits," in *International Journal of Signal Processing, Image Processing and Pattern Recognition*, vol. 4, no. 3, pp. 153-164, Sep. 2011.
5. Boveiri H. R., Tavana H. M., Zangeneh M., "The seasonal thermocline affectivity by the flow of Arvand river in northwestern part of the Persian Gulf," *International Journal of Advanced Scientific and Technical Research*, vol. 4, no. 2, pp. 721-730, Aug. 2012.
6. Boveiri H. R., Mosaddad S. M., "Sedimentation Rate in Waters around Iran," *International Journal of Research in Management*, Issue 2, Vol. 2, pp. 239-246, March 2012.
7. Boveiri H. R., "List-Scheduling Techniques in Homogeneous Multiprocessor Environments: A Survey," *International Journal of Software Engineering & Its Applications* (SCOPUS), Vol. 9, No. 4, pp. 123-132, Apr. 2015.
8. Boveiri H. R., "An Efficient Task Priority Measurement for List-Scheduling in Multiprocessor Environments," *International Journal of Software Engineering & Its Applications* (SCOPUS), Vol. 9, No. 5, pp. 233-246, May 2015.
9. Boveiri H. R., "Task assigning techniques for list-scheduling in homogeneous multiprocessor environments: A Survey," *International Journal of Software Engineering & Its Applications* (SCOPUS), Vol. 9, No. 12, pp. 303-312, Dec. 2015.

PUBLICATIONS - CONFERENCES

1. Boveiri H. R., "Assigning Tasks to Processors to Solve Task-Graph Scheduling in Homogeneous Parallel Systems Using Learning and Cellular-Learning Automata," in *Proc. 1st National Conference on Computer Engineering and Information Technology*, Shoushtar, Iran, Feb. 2014.
2. Boveiri H. R., "A Survey on Task Priority Measurements for List-Scheduling in Multiprocessor Environments," in *Proc. Conference on Computer Engineering and Information Technology*, Dezful, Iran, Jan. 2011.

3. Boveiri H. R., Abbasi Dezfuli M., Yektaie M. H., "Optical Recognition of Farsi Characters Using Fuzzy-Neural Network," in Proc. *1st Iranian Conference on Information Technology*, vol. 1, pp. 1-13, Sanandaj, July 2010.
4. Boveiri H. R., "Static Scheduling of Independent-Tasks in Homogeneous Systems Using Ant System," in Proc. *1st National Conference on Soft Computing and Information Technology* (NCSCIT 2011), Mahshahr, Iran, Mar. 2011.
5. Boveiri H. R., "ACO-MTS: A New Approach for Multiprocessor Task Scheduling Based on Ant Colony Optimization," in proc. *3rd Int. Conf. on Intelligent and Advanced Systems* (IEEE), Kuala Lumpur, 2010.

RESEARCH PROJECTS AND GRANTS ---

1. Boveiri H. R., "Utilization of Statistical Moments in Persian Numerical Character Recognition," Sama College, IAU, Shoushtar Branch, Shoushtar, Iran, 2010-2012.
2. Boveiri H. R., "Multiprocessor Task-Scheduling Using a Hybrid Approach Based on Ant Colony Optimization and Cellular Learning Automata," Sama College, IAU, Shoushtar Branch, Shoushtar, Iran, 2012-2013.
3. Boveiri H. R., Mosaddad M., "Numerical Modeling of Thermocline in a Water Basin Using a *Three-Dimensional Model*," Sama College, IAU, Shoushtar Branch, Shoushtar, Iran, 2010-2011.
4. Boveiri H. R., "A Novel Priority Measurement to Assign to the Tasks for List-Scheduling in Homogeneous Multiprocessor Environments," Sama College, IAU, Shoushtar Branch, Shoushtar, Iran, 2014-2015.

THESIS SUPERVISION ---

1. Abolfazl HaghghatKhah, "A Metaheuristic Approach Based on the Multi-Verse Optimization (MVO) to Enhance Intrusion Detection in Cloud Computing Environments," Supervisor, MSc Thesis, IAU, Dezful Branch, 2018.

EDITORSHIP AND PEER-REVIEW ACTIVITIES ---

- Reviewer, "Swarm & Evolutionary Computation," Elsevier
- Reviewer, "Artificial Intelligence Review," Springer
- Reviewer, "International Journal of Distributed Sensor Networks," SAGE
- Reviewer, "Supercomputing," Springer
- Reviewer, "Ad Hoc Networks," Elsevier
- Associate Editor, "International Journal of Computer Vision and Image Processing (IJCVIP)," IGI-Global
- Reviewer, "Journal of Soft Computing and Information Technology (JSCIT)," Babol Noshirvani University of Technology, Babol, Iran
- Reviewer, "Recent Patents on Computer Science," Bentham Science (SCOPUS)
- Associate Editor, "International Journal of Applied Metaheuristic Computing (IJAMC)," IGI-Global
- Editor-in-Chief, "ICSES Transactions on Image Processing and Pattern Recognition (ITIPPR)," ICSES Publications

- Steering Committee, “1st National Conference on Computer Engineering and Information Technology,” Shoushtar, Iran, Feb. 2014.
- Steering Committee, “2nd National Conference on Computer Engineering and Information Technology,” Shoushtar, Iran, Feb. 2015.
- Steering Committee, “2012 IEEE Symposium on Industrial Electronics and Applications (ISIEA 2012),” Bioinformatics & Signal Processing Track, Bandung, Indonesia, Sep. 2012.
- Steering Committee, “The Ninth International Green and Sustainable Computing Conference,” Pittsburgh, USA, October 22-25, 2018.
- Steering Committee, “3rd International Conference on Intelligent Systems, Metaheuristics & Swarm Intelligence (ISMSI2019),” Male, Maldives, March 23-24, 2019.

OTHER EXPERIENCE _____

- Head Advisor, Research Workgroup, Young Researchers & Elites Club, IAU, Shoushtar Branch, Shoushtar, Iran, 2010-2011.
- Manager, Modern-Process Software Group, Shoushtar, Iran, 2005-2009.
- Member, Executive Committee, *1st YRC Conference on Management*, IAU, Shoushtar, Iran, Dec. 2010.
- Member, Executive Committee, *Conference of Novel Findings on Architecture*, Sama College, IAU, Shoushtar Branch, Shoushtar, Iran, Feb. 2012.
- Publicity Chair, 3rd International Conference on Intelligent Systems, Metaheuristics & Swarm Intelligence (ISMSI2019), Male, Maldives, Mar. 2019.
- Publicity Chair, The Ninth International Green and Sustainable Computing Conference, Pittsburgh, USA, Oct. 2018.

INVITED LECTURES _____

- “Ant Colony Optimization and Its Application to Discrete Optimization,” in the *1st Computer Engineering Conference of Payam-nour University*, Shoushtar, Iran, Nov. 2010.
- “Overclock and Overclocking,” Sama College, IAU, Shoushtar, Iran, Dec. 2013.
- “Enterprise Architecture Frameworks,” Sama College, IAU, Shoushtar, Iran, Dec. 2017.

WORKSHOPS _____

- 56 Hours, 9th Workshop on Educational Matters for Faculty Members of Sama Organization: Education principles, teaching paradigms and skills, effective communication, educational progress measuring and novel teaching approaches, *Sama Technical & Vocational Training Organization*, Tehran, Iran, Dec. 2009.
- 16 Hours, 1st Workshop on Student Motivating Methods, *Sama Technical & Vocational Training Organization*, Ahvaz, Iran, Jun. 2011.
- 16 Hours, Writing High-Quality Manuscripts in English, *Young Researches Club of IAU, Shoushtar Branch*, Shoushtar, Iran, Dec. 2011.

AWARDS & HONORS _____

- “Best Teacher Award,” Sama College, IAU, Shoushtar Branch, Shoushtar, Iran, 2011.
- “Top Researcher Award,” Young Researchers & Elites Club of IAU, Shoushtar Branch, Shoushtar, Iran, 2011.
- “Top Researcher Award,” Sama College, IAU, Shoushtar Branch, Shoushtar, Iran, 2012.
- “Top Researcher Award,” Sama College, IAU, Shoushtar Branch, Shoushtar, Iran, 2013.
- “Top Researcher Award,” Sama College, IAU, Shoushtar Branch, Shoushtar, Iran, 2015.
- “Top Researcher Award,” Sama College, IAU, Shoushtar Branch, Shoushtar, Iran, 2016.
- “Top Researcher Award,” Sama College, IAU, Shoushtar Branch, Shoushtar, Iran, 2017.
- “1st Rank,” National PhD Entrance & Qualification Exam of IAU, Software Engineering, Iran, 2016.

LANGUAGE _____

- TOEFL (PBT), 2011 – Score: 577, TWE: 3.0
- GRE General (PBT-Revised), 2011 – Score: 299, AW: 3.0

RESEARCH INTERESTS _____

- Information Technology and Business Intelligence
- Machine Learning and Metaheuristics
- Medical Image Processing and Pattern Recognition
- Parallel and Distributed Systems
- Scheduling and Combinatorial Optimization
- Big-Data Mining and Analytics