

# Mohammad Ali Bagheri

*Student Member, IEEE*

bagheri@cs.dal.ca  
ma.bagheri@gmail.com  
Phone: +98(715)2251893

*Faculty of Computer Science  
Dalhousie University  
6050 University Ave  
Halifax, NS, Canada,  
B3H 1W5*

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## Educational Background

### **Dalhousie University, Halifax, NS, Canada**

PhD, Computer Science, 2016

- Supervisor: Prof. Qigang Gao
- GPA 4/4.3

### **Tarbiat Modares University, Tehran, Iran**

PhD, Industrial Engineering, 2013

- Supervisor: Dr. Gholamali Montazer
- GPA 18.12/20

### **Tarbiat Modares University, Tehran, Iran**

M.Sc., Information Technology, 2008

- Supervisor: Dr. Mohammad-Taghi Hamidibeheshti
- GPA 17.45/20

### **Sharif University of Technology, Tehran, Iran**

B.Sc., Industrial Engineering, 2005

- Supervisor: Dr. Hamid Akbari
- GPA 16.23/20

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## Honors and Awards

- 2016: Canadian Artificial Intelligence Association Scholarship and Award.
- 2013: Best Paper Award in 26<sup>th</sup> Canadian Conf. on Artificial Intelligence.
- 2012: Student Travel Grant in IEEE Data Mining Conf.
- 2012: Canadian Artificial Intelligence Association Scholarship and Award.
- 2005: Ranked 27<sup>th</sup> in university entrance exam for M.Sc. degree in Information Technology.
- 2005: Ranked 5<sup>th</sup> among more than 70 Industrial Engineering students of Sharif University of Technology.
- 2001: Ranked 147<sup>th</sup> in nationwide university entrance exam out of over 350,000 participants.
- 2000: Semifinalist of the National Olympiad in Mathematics.
- 2000: Semifinalist of the National Olympiad in Informatics.

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## Research Interests

- Pattern recognition (cognitive, statistical)
- Image processing, especially large scale image recognition
- Machine olfaction (electronic noses) and sensor array data analysis

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## Teaching experiences

- **Teacher Assistant** in 'Data mining', Dalhousie University, winter 2011 and 2012.
- **Teacher Assistant** in 'Web intelligent', Dalhousie University, summer 2011.
- **Teacher Assistant** in 'Computers for non-majors', Dalhousie University, winter 2011.
- **Teacher Assistant** in 'Fuzzy Systems', Tarbiat Modares University, fall 2009.
- **Teacher Assistant** in 'Designing e-commerce websites', Shiraz University, Iran, fall 2006.
- **Lecturer** in Linear Programming, Azad University, Iran, fall 2009.
- **Lecturer** in Statistics, Azad University, Iran. fall and winter 2009.

## Work and Research experiences

- Senior research assistant of the “Standardization of e-Government websites in Iran”, Research Institute for Science and Information Technology (IranDoc), 2006-2008.
- Research manager of establishing “Digital Object Identifier (DOI)” for digital intellectual property in Iran, Research Institute of Science and Information Technology (IranDoc), 2007.
- Executive manager of National Conference on IT Outcomes, Larestan, August 2004.
- Web design for Zahravi Pharmacy Co., Sharife (tissues manufacturing Co.), and University of Larestan, 2001-2002.

## Journal Publications (under review)

- [1] **Bagheri, Q. Gao, and S. Escalera**, “Locality Regularized Group Sparse Coding for Action Recognition”, *Computer Vision and Image Understanding*.

## Journal Publications (peer reviewed)

- [2] **M.A. Bagheri, Q. Gao, and S. Escalera**, “Combining local and global learners in the pairwise multiclass classification”, *Pattern Analysis and Applications*, pp. 1-16, 2014.
- [3] **M.A. Bagheri, Q. Gao, and S. Escalera**, “A Genetic-based subspace analysis method for improving Error-Correcting Output Coding”, *Pattern Recognition*, vol. 46, pp.2830–2839, 2013.
- [4] **M.A. Bagheri, Gh. Montazer, and E. Kabir**, “A subspace approach to Error-Correcting Output Coding”, *Pattern Recognition Letters*, vol. 34, pp. 176–184, 2013.
- [5] **A. Amini, M.A. Bagheri, and Gh. Montazer**, “Improving gas identification accuracy of a temperature-modulated gas sensor using an ensemble of classifiers”, *Sensors and Actuators B*, vol. 187, pp. 241–246, 2013.
- [6] **M.A. Bagheri, and Gh. Montazer**, “Ensemble feature selection based on hierarchical clustering of transient features”, *Iranian journal of electrical and computer engineering*, vol. 8, pp. 196-204, 2011.
- [7] **S. Alidoosti and M. A. Bagheri**, “Basic Information and Communication in the Website of Governmental Organizations: a Literature Review”, *Fasname Oloom va Fanavarie Ettela'at (Information Science and Technology quarterly)*, vol. 26, no. 3, pp. 735-756, 2011. [In Persian]
- [8] **M.A. Bagheri, M. Hamidi beheshti, and S. Alidousti**, Acceptance of Internet Banking in Iran: Extension of Technology Acceptance Model, *Fasname Oloom va Fanavarie Ettela'at (Information Science and Technology quarterly)*, vol. 35, no. 3, pp. 4-33, 2009. [In Persian]

## Conference Publications

- [1] **M.A. Bagheri, Q. Gao, and S. Escalera**, “Support Vector with Time Series Distance Kernels for Action Classification”, in *Proc. IEEE Winter Conference on Applications of Computer Vision*, NY, United States, 2016.
- [2] **M.A. Bagheri, Q. Gao, and S. Escalera**, “Action Recognition by Pairwise Proximity Function Support Vector Machines with Dynamic Time Warping Kernels”, in *Proc. 29<sup>th</sup> Canadian conf. on Artificial Intelligence*, BC, Canada, 2016.
- [3] **M.A. Bagheri, Q. Gao, and S. Escalera**, “Generic Subclass Ensemble: A Novel Approach to Ensemble Classification”, in *Proc. 22<sup>nd</sup> International conf. on Pattern Recognition*, Stockholm, Sweden, 2014.
- [4] **M.A. Bagheri, G. Hu, Q. Gao, and S. Escalera**, “A Framework of Multi-Classifer Fusion for Human Action Recognition”, in *Proc. 22<sup>nd</sup> International conf. on Pattern Recognition*, Stockholm, Sweden, 2014.
- [5] **M.A. Bagheri, Q. Gao, and S. Escalera**, “Logo recognition Based on the Dempster-Shafer Fusion of Multiple Classifiers”, in *Proc. 26<sup>th</sup> Canadian conf. on Artificial Intelligence*, Regina, Canada, 2013. **(Best paper award)**
- [6] **M.A. Bagheri, Q. Gao and S. Escalera**, “A framework towards the unification of ensemble classification methods.”, in *Proc. IEEE International Conference on Machine Learning and Applications (ICMLA)*, 2013.

- [7] **M.A. Bagheri**, Q. Gao and S. Escalera, "Rough Set Subspace Error Correcting Output Codes", in *Proc. IEEE International Conf on Data Mining*, Brussels, Belgium, 2012.
- [8] **M.A. Bagheri**, Q. Gao, and S. Escalera, "Three-Dimensional Design of Error Correcting Output Codes", in *Proc. International Conference on Machine Learning and Data Mining*, Berlin, Germany, 2012
- [9] **M.A. Bagheri**, Q. Gao, and S. Escalera, "Efficient pairwise classification using Local Cross Off strategy", in *Proc. 25<sup>th</sup> Canadian conf. on Artificial Intelligence*, Toronto, Canada, 2012.
- [10] **M.A. Bagheri**, and Q. Gao, "An Efficient Ensemble Classification Method based on Novel Classifier Selection Technique", *International Conference on Web Intelligence, Mining and Semantics*, Romania, 2012.
- [11] **M.A. Bagheri** and Q. Gao, "Logo recognition based on a novel pairwise classification approach", in *Proc. 16<sup>th</sup> International symposium on Artificial Intelligence and Signal Processing (IEEE indexed)*, Shiraz, Iran, 2012.
- [12] **M.A. Bagheri** and Gh. Montazer, "Ensemble Strategy Based on Transient Feature Fusion", in *Proc. 14<sup>th</sup> international symposium on Olfaction and Electronic Nose (ISOEN)*, New York, 2011.
- [13] **M.A. Bagheri** and Gh. Montazer, "A Random Subspace Approach Based on Hierarchical Clustering of Transient Features in Electronic Nose", in *Proc. 4<sup>th</sup> international conference on sensing technology*, Lecce, Italy, 2011.
- [14] **M.A. Bagheri**, "A Hybrid Method for Odor Classification in Electronic Nose Based on Wavelet Decomposition and Artificial Neural Network", in *Proc. 15<sup>th</sup> National Computer Conference*, Tehran, Iran, 2010. [In Persian]
- [15] **M.A. Bagheri** and Gh. Montazer, "Classification Enhancement in Electronic Nose using Multiple Classifier Systems", in *Proc. 15<sup>th</sup> National Computer Conference*, Tehran, Iran, 2010. [In Persian]
- [16] **M.A. Bagheri** and F. Mohamadi, "U-Commerce: Intelligent world, Interactive World", in *Proc. 2<sup>nd</sup> international conference of RFID*, Tehran, Iran, 2008. [In Persian]

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## References

- **Dr. Qigang Gao** (Professor),  
Faculty of Computer Science, Dalhousie University, Halifax, NS  
Email: [qggao@cs.dal.ca](mailto:qggao@cs.dal.ca)
- **Dr. Ehsanolah Kabir** (Professor),  
Tarbiat Modares University, Tehran, Iran  
Email: [kabir@modares.ac.ir](mailto:kabir@modares.ac.ir)
- **Dr. Gholamali Montazer** (Associate Professor),  
Tarbiat Modares University, Tehran, Iran  
Email: [montazer@modares.ac.ir](mailto:montazer@modares.ac.ir)
- **Dr. Sergio Escalera** (Associate Professor),  
Universitat de Barcelona, Barcelona, Spain  
Email: [sergio@maia.ub.es](mailto:sergio@maia.ub.es)