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Fields of Interest

- Data Mining
- Customer Relationship Management
- Business Intelligent
- Social Network Analysis

Education

PhD. in Information Technology Engineering

- 2018-2021, K. N. Toosi University of Technology

M.Sc. in Information Technology Engineering

- 2009 – 2010, K. N. Toosi University of Technology, Tehran, Iran
- Major in E-commerce
- Thesis: “Fuzzy Approach for Supplier Selection”

B.Sc. in Information Technology Engineering

- 2004 – 2008, Amirkabir University of Technology (Polytechnic), Tehran, Iran
- Thesis: ” Font Recognition in a Farsi Text”

Publication

Conference Papers

- 1- M. Ziaratban, L. Noormohammadi , **F. Bagheri**, “License Plate Detection and Component Extraction”, the International Conference in New Research of Electrical Engineering and Computer Science, 10 September 2015, Tehran University.
- 2- **F. Bagheri**, Sh. Vafadar, “Shopping basket and customer loyalty analysis”, the seventh information & knowledge technology conference/ IKT 2015, May. 26-28/ 2015, Urmia, Iran.
- 3- Shamin Fazeli, **Fatemeh Bagheri**, “Assess and predict the impact of kidney disease using data mining methods”, the sixth information & knowledge technology conference/ IKT 2014, May. 27-29 / 2014, Shahrood, Iran.
- 4- Mina sadat Hoseini, **Fatemeh Bagheri**, “Identify factors associated in learning by using k-mean, Decision Tree and Apriori”, the sixth information & knowledge technology conference/ IKT 2014, May. 27-29 / 2014, Shahrood, Iran.
- 5- Majid Ziaratban, Sara Heidarian, **Fatemeh Bagheri**, “Introducing features based on curvedness amounts and distances between two ends of vessels and extracting these features from retina for identity recognition”,the sixth information & knowledge technology conference/ IKT 2014, May. 27-29 / 2014, Shahrood, Iran.
- 6- **F. Bagheri**, M. Ziaratban, “Behavior prediction for insurance costumers by using the genetic algorithm”, the seventh Iran Data Mining Conference / IDMC 2013, Dec. 10, 11 / 2013, Tehran, Iran.
- 7- **Fatemeh Bagheri**, Alireza Gharehkhani ; Mohammadhossein Gharehkhani, “Verifying Divorcement Reasons by Using Data mining Techniques”, The seventh Iran Data Mining Conference / IDMC 2013, Dec. 10,11 / 2013, Tehran, Iran.

- 8- Mina sadat Hosseini, **Fatemeh Bagheri**, “Identifying the effective factors on high school students' level of knowledge by using association rules and a clustering method”, The seventh Iran Data Mining Conference / IDMC 2013, Dec. 10,11 / 2013, Tehran, Iran.
- 9- Mehrzad Jalali ; **Fatemeh Bagheri**, “Apartment Rent Prediction Based on Effective Variables by Using Statistical Regression”, The seventh Iran Data Mining Conference / IDMC 2013, Dec. 10,11 / 2013, Tehran, Iran.
- 10- **F. Bagheri**, M. Ziaratban, “Customer Relationship Management in Insurance Industry by Using K-Mean Algorithm” 11th Iranian Conference on Intelligent Systems / ICIS2013, Feb. 27, 28/ 2013, Tehran, Iran.
- 11- M. Ziaratban, **F. Bagheri**, “Extracting local reliable text regions to segment complex handwritten textlines”, 8th Iranian Conference on Machine Vision and Image Processing, Sep 10-12, 2013, University of Zanjan, Zanjan, Iran.
- 12- M. Ziaratban, **F. Bagheri**, “Improving Farsi Font Recognition Accuracy by Using Proposed Directional Elliptic Gabor Filters”, The First Iranian Conference on Pattern Recognition and Image Analysis, March 6-8th 2013, Birjand, Iran.
- 13- M. Ziaratban, K. Faez and **F. Bagheri**, “Content-Independent Farsi Font Recognition Based on Dynamic Most-Frequent Connected Components”, 21st International Conference on Pattern Recognition (ICPR 2012), November 11-15, 2012. Tsukuba, Japan.
- 14- **F. Bagheri**, M. Ziaratban, “Improve the insurance policies by using Integrating RFM and Fuzzy c-mean methods”, The sixth Iran Data Mining Conference / IDMC 2012, Dec. 18,19 / 2012, Tehran, Iran.
- 15- M. Ziaratban, K. Faez and **F. Bagheri**, “FHT: An Unconstraint Farsi Handwritten Text Database,” in Proceedings of the 10th International. Conference on Document Analysis and Recognition, ICDAR09, pp. 281-285, 2009, Catalonia, Spain.

- 16- M. Ziaratban, S. Kasaei, **F. Bagheri**, “A New Video Compression Algorithm without Sending the Difference Frame”, CSICC 2008, Sharif University of Technology, March 2008, Kish Island, Iran.

Journal Papers

- 1- **F. Bagheri**, M. J. Tarokh, “ A Fuzzy Approach For Multi-Objective supplier selection”, International journal of industrial engineering & production research, pp. 1-9, Volume 21, Number 1, June (2010). ISC
- 2- **F. Bagheri**, M. J. Tarokh, “Mining Customers’ Behavior Based on RFM model to Improve The Customer Satisfaction”, International Journal of Customer Relationship Marketing and Management, 2(3), 79-91, July-September 2011.
- 3- M.J. Tarokh , P. Motamedi, **F. Bagheri** “Optimizing setup time reduction rate in an Integrated JIT Lot-Splitting Model by using PSO and GS Algorithms for Single and Multiple Delivery Policies”, International journal of industrial engineering & production research, pp. 37-46, Volume 24, Number 1, March (2013).ISC
- 4- **F. Bagheri**, M. ziaratban, M. J. Tarokh, “Predicting behaviors of insurance costumers by using the genetic algorithm”, Journal of mathematics and computer Science, 14 (2015) 54 - 70.
- 5- Majid Ziaratban, **Fatemeh Bagheri**, “Farsi Font Recognition based on The Fonts of Text Samples Extracted by SOM”, Journal of mathematics and computer Science, 15 (2015), 40-56.
- 6- **Bagheri F**, Alizadeh Majd H, Mehrbakhsh Z, Ziaratban M. “Use of data mining algorithms in assessing the affecting factors on predicting the health status of newborns”. Jorjani Biomed J. 2014; 2 (2) :68-59.

- 7- **Bagheri F**, Ahangari F, Behnampour N., “Determination of Model and Distribution of Mortality Data by Using Data Mining Technique in Golestan Province since 2007 to 2009”, *Jorjani Biomed J.* 2015; 3 (2) :65-79.
- 8- Khoshfar Gh, **Bagheri F**, Barzegar S, Nurmohammadi L, “A Survey on Factors Effecting on Attitude toward Hijab and Suggest for Promote it (Case Study: Citizens of Gorgan)”, *Journal of Studies of Socio-Cultural Development*, Vol.3, No.4, Spring 2015.
- 9- Eslami F., **Bagheri F.**, Mohammadi F., “Surveying the knowledge of pregnant women towards sport activities during pregnancy using data mining algorithms”, *Turkish Journal of Sport and Exercise*, Volume: 18 - Issue: 1 - Pages: 8-16, 2016.
- 10- **Bagheri F.**, Dehghan M., Ziaratban M., Afkhaminia F., " Selecting the most proper location to construct hospitals and health centers in a city by Genetic Algorithm" *Jorjani Biomed J.* 2018; 5 (2) :78-90.
- 11- **Bagheri F**, Tarokh M J, Ziaratban M. Two-stage Skin Lesion Segmentation from Dermoscopic Images by Using Deep Neural Networks. *Jorjani Biomed J.* 2020; 8 (2) :58-72.
- 12- **Bagheri, F.**, Tarokh, M., Ziaratban, M., Semantic Segmentation of Lesions from Dermoscopic Images using Yolo-DeepLab Networks. *International Journal of Engineering*, 2021, 34(2), 458-469.
- 13- **Bagheri, F.**, Tarokh, M., Ziaratban, M., Skin lesion segmentation based on mask RCNN, Multi Atrous Full-CNN, and a geodesic method. *International journal of imaging systems and technology*, 2021, 31(3), 1609-1624.
- 14- **Bagheri, F.**, Tarokh, M., Ziaratban, Skin lesion segmentation from dermoscopic images by using Mask R-CNN, Retina-Deeplab, and graph-based methods.

Biomedical Signal Processing and Control, 2021, 67, 102533.

Teaching Experiences

- Artificial Intelligence
- Algorithms Design
- Data Structure
- Data Mining
- Database
- Logic Circuit
- Presentation Methods
- Computer Lab

Research projects

1. Knowledge discovery from Divorcement data by using data mining
2. Analysis and prediction of customer behavior by using RFM variables in insurance industry
3. Marketing, Improving CRM and Risk management in Insurance Industry
4. Implementing Engineering Department Website and Protecting it by Using SSL Protocol
5. Knowledge Discovery in Education Process of students by Using Data Mining
6. Extracting robust features from retinal images for identity recognition
7. Automatic font recognition in Farsi machine-printed text images
8. Farsi Sub-Word Recognition in the Texts Written By One Person
9. Handwritten textline extraction by using 2D Gaussian filters
10. A new framework for inferring the user interests using Web search history