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RESEARCH INTERESTS

- System Modeling
- Intelligent Systems
- Fuzzy Logic
- Machine Learning
- Image Processing
- Gamification
- Health Systems

PUBLICATIONS

JOURNAL PAPERS

Zarinbal, M., Designing a conceptual model for implementing gamification in IRANDOC thesis and dissertations registration system, Iranian Journal of Information Processing & Management. Available online (2017).

Zarinbal, M., Zarandi, M.F., Turksen, I.B., Izadi, M.: A type-2 fuzzy image processing expert system for diagnosing brain tumors. Journal of medical systems, 39 (2015).

Zarinbal, M., Zarandi, M.H.F., Turksen, I.B.: Relative entropy collaborative fuzzy clustering method. Pattern Recognition, 48, 933–940 (2015).

Zarinbal, M., Fazel Zarandi, M.H.: Type-2 fuzzy image enhancement: Fuzzy rule based approach. Journal of Intelligent and Fuzzy Systems, 26 (2014).

Zarinbal, M., Fazel Zarandi, M.H., Turksen, I.: Relative entropy fuzzy c-means clustering. Information Sciences, 260 (2014).

Zarinbal, M., Zarandi, M.F., Turksen, I.: Interval Type-2 Relative Entropy Fuzzy C-Means clustering. Information Sciences, 272, (2014).

Zarandi, M.F., Zarinbal, M., Ghanbari, N., Turksen, I.B.: A new fuzzy functions model tuned by hybridizing imperialist competitive algorithm and simulated annealing Application: Stock price prediction. Information Sciences, 222 (2013).

**ZARINBAL MASOULEH,
MARZIEH**
ASSITANT PROF.

Zarandi, M.F., Moosavi, S.V., Zarinbal, M.: A fuzzy reinforcement-learning algorithm for inventory control in supply chains. The International Journal of Advanced Manufacturing Technology, 65 (2012).

Zarandi, M.F., Zarinbal, M.: Image Segmentation: Type-2 Fuzzy Possibilistic C-Mean Clustering Approach. International Journal of Industrial Engineering, 23 (2012).

Zarandi, M.F., Zarinbal, M., Izadi, M.: Systematic image processing for diagnosing brain tumors: A Type-II fuzzy expert system approach. Applied Soft Computing, 11 (2011).

CONFERENCE PAPERS

Zarinbal, M., Zarandi, M.F., Turksen, I.B., Izadid, M.: Interval type-2 fuzzy image processing expert system for diagnosing brain tumors, Norbert Wiener in the 21st Century (21CW), 2014 IEEE Conference on (2014).

Zarandi, M.F., Zarinbal, M.: A new image enhancement method Type-2 Possibilistic C-Mean Approach. In: IFSA World Congress and NAFIPS Annual Meeting (IFSA/NAFIPS), 2013 Joint. IEEE (2013).

Izadbakhsh, H., Noorossana, R., Zarinbal, M., Zarinbal, A.: An EWMA-based method for monitoring polytomous logistic profiles. In: Industrial Engineering and Engineering Management (IEEM), 2011 IEEE International Conference on. IEEE (2011).

Zarandi, M.F., Zarinbal, M.: Using Type-2 fuzzy function for diagnosing brain tumors based on image processing approach. Fuzzy Systems (FUZZ), 2010 IEEE International Conference on. IEEE (2010).

Shafahi, Y., Zarinbal, a., Zarinbal, M.: Type-II fuzzy route choice modeling. 2010 Annual Meeting of the North American Fuzzy Information Processing Society. 1–5 (2010).

Zarandi, M.F., Zarinbal, M., Türksen, I.: Type-II Fuzzy Possibilistic C-Mean Clustering. IFSA/EUSFLAT Conf. 30–35 (2009).

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AWARDS

Best paper in IEEE 2014 Conference on Norbert Wiener in 21st Century, Boston, US, for “Interval Type-2 Fuzzy Image Processing Expert System for Diagnosing Brain Tumors”.

Best paper in IIEC2012 for “Image Segmentation: Type-2 Fuzzy Possibilistic C-Means Clustering Approach”.

Hottest paper of Applied Soft Computing in 2010 for “Systematic image processing for diagnosing brain tumors: a type-II fuzzy expert system approach”.

Education

Amirkabir University of Technology

Ph.D. (Sep 2010-Sep 2014)

Department of Industrial Engineering and Health Systems

M.S. (Sep 2007-June 2009)

Department of Industrial Engineering and Health Systems

Alzahra University

B.S. (Sep 2001-June 2006)

Department of Industrial Engineering

EXPERIENCE

RESEARCH EXPERIENCE

Forecasting Postal factors, I.R. Iran Post Company, 2017.

Designing a conceptual model for implementing gamification in IRANDOC thesis and dissertations registration system, IRANDOC, 2017.

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Diagnosing Astrocytoma tumor based on Type-2 fuzzy logic image processing. Ph.D. Thesis, Supervisor: Prof. Fazel Zarandi, Amirkabir University of Technology, 2011-2014.

Diagnosing Astrocytoma tumor based on image processing techniques and fuzzy logic. M.S. Thesis, Supervisor: Prof. Fazel Zarandi, Amirkabir University of Technology, 2008-2009.

Developing simulation software for predicting and managing the inventory system in Iran Khodro Factory, B.Sc. Thesis, Supervisor: Dr. Feili, Alzahra University, 2006.

SCIENTIFIC EXPERIENCE

Reviewer in:

IEEE Transaction on Fuzzy Systems
Computers in Biology and Medicine
IET Image Processing
Journal of Intelligent and Fuzzy Systems

Organizing a focus session on IEEE 2014 Conference on Norbert Wiener in 21st Century, entitled "Fuzzy Pattern Recognition"

Organizing a focus session on 2013 IFSA-NAFIPS Joint Congress, entitled "Fuzzy Pattern Recognition"