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Computer Eng Department,  
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### **EDUCATION**

- 2005-2007     **Msc in Artificial Intelligence**, Science and Research University of Tehran  
Thesis: Designing an fuzzy RBF neural network with optimal number of neuron in hidden layer for Persian signature recognition by Zernike Moments and PCA  
Supervisor: Dr. Javad Haddadnia
- 2000-2004     **BSc in Computer Engineering**, Ferdowsi University

### **RESEARCH INTERESTS**

- Expert Systems
- Artificial Intelligent
- Image Processing
- Artificial Neural Networks
- Genetic Algorithms
- Human Computer Interaction
- Interaction Design

### **BOOK**

1. Z. Fasihfar, H. R. Rokhsati, 2017, "**C++ Programming - Principles of Design and Implementation**", Mirdashti Publisher, 291 pages (in Persian).
2. Book translating  
**INTERACTION DESIGN Beyond human-computer interaction (Fifth Edition 2019 -2020)**

## **PUBLICATIONS**

1. Z. Fasihfar, B. Behara and H. R. Rokhsati, 2018, "Diagnosis and classification of cardiac arrhythmias by analyzing and extracting of ECG signal features by means of dwt and artificial neural network", *Journal of Advanced Pharmacy Education & Research*, Vol. 8(S2), pp. 76-82.
2. Z. Fasihfar, and H. R. Rokhsati, 2017, "Study of application of intelligent agents in e-learning systems", *Bulletin de la Société Royale des Sciences de Liège*, Vol. 86, pp. 398-405.
3. H. R. Rokhsati, and Z. Fasihfar, 2016, "Providing a method based on image processing of damaged tissues for diagnosis of Coeliac disease", *Mitteilungen Saechsischer Entomologen*, Vol. 119
4. Z. Fasihfar, A. Borzouei, A. Ghazizadeh, and A. Imanifard, 2016, "Development of an Expert System Based on Risk Management Knowledge for Projects of Subway Lines Construction by B.O.T Method", *Mitteilungen Saechsischer Entomologen*, Vol. 119
5. Z. Azadmanjiri, Z. Fasihfar, and F. Delbari, 2016, "Risk Management in Electronic Banking", *Mitteilungen Saechsischer Entomologen*, Vol. 119
6. H. R. Rokhsati, and Z. Fasihfar 2015, "Designing a Knowledge-Based Intelligent Assistant for Diagnosis of Atrophy in Small Intestine on the Basis of Processing the Tissue Images", *Biomedical & Pharmacology Journal*, Vol. 8(2), pp. 837-841.
7. A. Ghazizadeh, M. Dehghani, H. R. Rokhsati, and Z. Fasihfar, 2015, "Development of a Knowledge-based Expert System for Diagnosis and Treatment of Common Diseases of the Spine", *Biomedical & Pharmacology Journal*, Vol. 8(2), pp. 719-723.
8. H. Hokmabadi, and Z. Fasihfar, 2015, "Providing A Way to Detect Drowsiness of Driver According to Processing the Eye Images ", *Journal of Applied Environmental and Biological Sciences*, Vol. 5(7S), pp. 273-279.
9. M. Mehrabifard, Z. Fasihfar, J. Rivandi, and M. Soleimani, 2015, "Design of a Fuzzy Expert System as an Intelligent Assistant for Thesis Supervisor's Educational Counseling", *Cumhuriyet University Faculty of Science*, Vol. 36, No. 3.
10. M. K. Vieh, Z. Fasihfar, and M. K. Arabi, 2015, "Design of a Knowledge-based Expert System as Physician's Assistant in Diagnosis of Heart Diseases through ECG Image Processing", *Cumhuriyet University Faculty of Science*, Vol. 36, No. 3.

11. F. Sazgar, M. G. Kheibari, and Z. Fasihfar, 2015, "Designing of a Knowledge Base Expert System for Specific Risks Management in BOT Projects", Cumhuriyet University Faculty of Science, Vol. 36, No. 3.
12. M. Fasihfar, Z. Fasihfar, and J. Haddadnia, 2013, "Heterogeneous Multi-sensor Data Fusion for Object Detection and Tracking Using Fuzzy System", Reef Resources Assessment and Management Technical Paper, Vol. 38.
13. Z. Fasihfar, and J. Haddadnia, 2010, "Designing an fuzzy RBF neural network with optimal number of neuron in hidden layer & effect of signature shape for Persian signature recognition by Zernike Moments and PCA", Journal of Computational Information Systems, Vol. 6(9).

### **CONFERENCES ARTICLES**

1. H. R. Rokhsati, Z. Fasihfar, 2018, "Suggestion an Intelligent Algorithm Based on Weak Learn for Spam Detection by Statistical Feature Extraction", 5th International Conference on Applied Reaserch in Electrical, Mechanical & Mechatronics Engineering, Tehran, Iran.
2. Z. Fasihfar, Z. Alishah, N. Meshkani, H. R. Rokhsati, 2018, "Investigating Artificial Intelligence Based Approaches to Detect Communities in Social Networks", 5th International Conference on Electrical and computer Engineering with an emphasis on indigenous knowledge, Tehran, Iran.
3. Z. Fasihfar, S. Ramezanpour, M. Izi, H. R. Rokhsati, 2017, "A Survey of the Application of Semantic Relationships and Combined Techniques for Opinion mining and Emotion Analysis in Twitter", 2nd International Conference on Research Knowledge Base in Computer Engineering and IT, Tehran, Iran.
4. Z. Fasihfar, M. Robati and H. R. Rokhsati, 2017, "Study of the design and implementation of web-based virtual laboratory ", 4th International Conference on Knowledge based Research in Computer Engineering and Information Technology, Tehran, Iran.
5. H. R. Rokhsati, Z. Fasihfar and H. Asgari, 2016, "Designing an expert system diagnosis of melanoma of the dermatoscopy images based on decision tree algorithm ID3-Pvalue", 4th International Conference on Applied Research in Computer Engineering & Signal Processing, Tehran, Iran.
6. Z. Fasihfar, H. R. Rokhsati, and M. H. Amouei, 2016, "Designing a novel method for counting blood cells based on morphology structures and processing microscopic images", 2<sup>nd</sup>. Internation Conference on Engineering and Applied Science, Dubai, United Arabic Emirates.
7. Z. Fasihfar, H. R. Rokhsati, M. Vafakhah, 2016, "Study of application of data mining intelligent algorithms to identify and prevent all kinds Bank fraud", 3rd International Congress on Computer, Electrical and Communication, Mashhad, Iran.
8. S. Neshati, Z. Fasihfar, F. Nabati, M. R. Ghasempour, and H. R. Rokhsati, 2016, "Designing a knowledge-based expert system for optimal site for construction of urban green space based on image processing, GIS and regional knowledge" International Conference on Researches in Science & Engineering, Istanbul, Turkey
9. Z. Fasihfar, H. R. Rokhsati, and M. Akbari, 2016, "Designing a knowledge-based smart assistant to detect Crohn's disease by processing colonoscopy images of the internal gastrointestinal wall", 2<sup>nd</sup>. International Conference on new findings of Science and Technology, Tehran, Iran.

10. S. M. J. Arabi, M. Foji, and Z. Fasihfar, 2016, "Designing a CBR-KBS intelligent assistant for diagnosis of irritable bowel syndrome", 3<sup>rd</sup>. International Conference on Applied Research in Computer and IT, Tehran, Iran.
11. H. E. Manesh, M. Behnam, B.Khosroabadi, A. Saeidinia, and Z. Fasihfar, 2016, "Designing a hybrid intelligent assistant KBS-CBR to diagnose autoimmune diseases rheumatoid arthritis, lupus and fibromyalgia based on clinical symptoms, tests and signs of underlying", 3<sup>rd</sup> . International Conference on Applied Research in Computer and IT, Tehran, Iran.
12. S. Dastras, R. Robotjazi, and Z. Fasihfar, 2016, "Designing and implementation of a knowledge-based expert system for comprehensive quantitative and qualitative evaluation of an organization's employees and providing suggestions for improving performance", 3<sup>rd</sup> . International Conference on Applied Research in Computer and IT, Tehran, Iran.
13. S. Arghiani, M. S. Aghlami, and Z. Fasihfar, 2016, "Risk management intelligence assistant in civil project", 3<sup>rd</sup> International Conference on Applied Research in Computer and IT, Tehran, Iran.
14. F. Sazgar, and Z. Fasihfar, 2016, "Providing a novel method based on heuristic fuzzy knowledge to assess and manage risk in BOT projects contract ", 5<sup>th</sup>. National Conference and 3<sup>rd</sup>. International Conference on Accounting and Management, Tehran, Iran.
15. Z. Fasihfar, S. Neshati, F. Nabati, and F. Delbari, 2015, "Designing a fuzzy knowledge-based expert system for diagnosis and treatment of acute primary headaches on the basis of traditional Islamic medicine", 7<sup>th</sup>. International Conference on Electrical and Electronic Engineering Iran, Gonabad, Iran.
16. Z. Kaskani, Z. Fasihfar, and M. Khosrojerdi, 2015, "Designing a knowledge-based expert system for brain tumor diagnosis based on morphological operators of MRI images", 7<sup>th</sup>. International Conference on Electrical and Electronic Engineering Iran, Gonabad, Iran.
17. A. H. Rahmani, A. Elhamirad, and Z. Fasihfar, 2016, "Designing a CBR-KBS hybrid expert system to diagnose Guillain-Barre syndrome", 2<sup>nd</sup>. National Conference on Research in Computer Engineering, Tehran, Iran.
18. A. Z. Henji, S. Neshati, F. Nabati, and Z. Fasihfar, 2015, "Designing an evaluation system based on satellite image processing and management of urban green space ", International Conference on Researches in Science & Engineering, Istanbul, Turkey.
19. A. R. Imanifard, Z. Fasihfar, A. Ghazizadeh, and S. M. E. Mousavi, 2015, " Designing a knowledge-based expert system to diagnose MS based on MRI image processing and combined knowledge base ", International Conference on Researches in Science & Engineering, Istanbul, Turkey.
20. Z. Fasihfar, and H. Hokmabadi, 2015, "Designing an expert system based on fuzzy knowledge, as tourist guide intelligent Assistant in Iran", First National Conference on Tourism, Geography and clean environment, Hamedan, Iran.
21. 10. H. R. Rokhsati, Z. Fasihfar, H. Jahanshahi Nokandeh, F. Mousavifard, P. Bazghandi, F. Karrabi, 2019, "Diagnosis and classification of Falciparum, Vivax and Ovale malaria parasites for all stages, on thin blood smears, based on image processing techniques and ANN", 14th International Symposium on Advances in Science and Technology (SASTech), Mashhad, Iran.

## **TEACHING EXPERIENCE**

2007-2016 Faculty Member, Hakim Sabzevari University

2004-2007 Faculty Member, Islamic Azad University of Sabzevar

Course title:

- Artificial Intelligence
- Algorithm Design
- Image Processing
- Expert Systems
- Software Engineering
- Data Structure
- Programming
- Machine Language
- HCI

## **OTHER SKILLS**

**Programming:** Delphi, C++, C#, PHP, Python, vp expert, clips

**Language:** Proficient in English