

**Name: Javad**

**Last Name: Rahebi**

**Birth Date:** 12 January 1982

**Place of Birth:** Oromieh, Iran

**Marital Status:** Married

### **Education**

**2011-2015:** PhD. Degree of in Electric and Electronic Engineering, Gazi University, Turkey.

**2005-2009:** M.Sc. degree of in Communication Engineering, Sadjad University of Technology, Mashhad, Iran.

**2001-2005:** B.S. in Communication Engineering, Azad University of Oromieh, Iran.

### **Relevant Courses**

Digital Signal Processing

Digital Image Processing

Analogue Communication Systems

Digital Communication Systems

Artificial Intelligent Systems

### **Computer Knowledge**

Matlab

Code Composer Studio, VHDL, FPGA

### **Work Experiences**

**University of Turkish Aeronautical Association:** Assistant professor from 2015 up to now.

**FİGES A.Ş., Ankara, Turkey:** MATLAB and SIMULINK.

**Havelsan, Ankara, Turkey:** Signal processing and State flow teaching with MATLAB and Simulink.

**Roketsan, Ankara, Turkey:** Signal Processing, Communication Systems Design and Modeling with MATLAB and SIMULINK.

**FNSS:** Signal Processing

**TAI:** Integrating Code with Simulink, Fundamentals of Code Generation for Embedded Applications (Fundamentals of Code Generation for Real-Time Design and Testing), MATLAB to C with MATLAB Coder.

**TEI:** Simulink for System and Algorithm Modeling

**Kara Harp Okulu, Ankara, Turkey:** Signal Processing, Image processing, Communication System, Simulink toolbox teaching.

**Ford:** Matlab Fundamental

**Middle East Technical University:** MATLAB teaching for Mechanical Engineering Students.

**Gazi University:** Programming Techniques in MATLAB for Mechanical Engineering Academic staff.

**Adana University:** teaching courses on Optimization, Artificial Neural Network, MATLAB, and Simulink.

**MAN:** MATLAB Fundamental and SIMULINK

**Petrofer Izmir:** Optimization and Statistical methods.

### **Keynote Speaker**

Optimization Methods in Engineering, Rajalakshmi Engineering College (REC), Chennai, India, April 2018.

### **Publication**

#### **SCI Journals**

- [1] Aljanabi, M., Özok, Y., **Rahebi, J.**, & Abdullah, A., "Skin Lesion Segmentation Method for Dermoscopy Images Using Artificial Bee Colony Algorithm." *Symmetry* 10.8 (2018): 347.
- [2] Abdullah, Ahmad S., Yasa Ekşioğlu Özok, and **Javad Rahebi**. "A novel method for retinal optic disc detection using bat meta-heuristic algorithm." *Medical & biological engineering & computing* (2018): 1-10.
- [3] **Rahebi, Javad**, and Fırat Hardalaç. "A new approach to optic disc detection in human retinal images using the firefly algorithm." *Medical & biological engineering & computing* 54.2-3 (2016): 453-461.

- [4] R. Ghadami, **J. Rahebi** and Y. Yaylı, “Fast Methods for Spherical Linear Interpolation in Minkowski Space”, *Advances in Applied Clifford Algebras*, Feb 2015, Springer Publisher.
- [5] **J. Rahebi**, Fırat Hardalaç, “Retinal Blood Vessel Segmentation with Neural Network by Using Gray-Level Co-Occurrence Matrix-Based Features”, “*Journal of medical system*”, June 2014, Springer Publication.
- [6] R. Ghadami, **J. Rahebi** and Y. Yaylı, “Spline Split Quaternion Interpolation in Minkowski Space”, *Advances in Applied Clifford Algebras*, September 2013, Springer Publisher.

### **Scopus Journals**

- [7] Aljanabi, Mohanad, YasaEkşioğlu Özok **Javad Rahebi**, "An Investigation of Update Information Equations by using the Artificial Bee Colony Method for Skin Cancer Detection" *International Journal of Computer Science and Network Security* 18.1 (2018): 71-78.
- [8] Ahmad, Tarik, Can Dogan Vurdu, and **Javad Rahebi**, "New Full Reference Image Quality Assessment Method based on Edge Intensity", *International Journal of Computer Science and Network Security* 18.3 (2018): 82-85.
- [9] **J. Rahebi** and Fırat Hardalaç, “Integrating Ant Colony Optimization with Level Set Method for Biomedical Image Boundary Detection”, *Przegląd Elektrotechniczny*, ISSN 0033-2097, Vol. 89, No. 5, pp. 218-221, 2013.
- [10] **J. Rahebi** and Fırat Hardalaç, “Combination of Matched Filter and Gabor Filter for Retinal Vessel Extraction”, *Life Science Journal*, pp. 483-486, 2013.
- [11] H. R. Tajik, **J. Rahebi**, “Diffuse Objects Extraction in Coronal Holes Using Active Contour Means Model”, *Advances in Computer Science: an International Journal*, September 2013.
- [12] R. Ghadami and **J. Rahebi** and Y. Yaylı, "Linear Interpolation in Minkowski Space", *International Journal of Pure and Applied Mathematics*, pp. 469-484, Volume 77 No. 4 February 2012.

- [13] R. Ghadami, **J. Rahebi** and Y. Yaylı, “A Novel Approach for Spherical Spline Split Quaternion Interpolation on Lorentzian Sphere using Bezier Curve Algorithm”, *Life Science Journal*, pp. 3394-3397, 2012.
- [14] H. R. Egtesad Doost and **Javad Rahebi**, "An Efficient Method for Texture Classification with Local Binary Pattern Based on Wavelet Transformation", *International Journal of Engineering Science and Technology*, pp. 4881-4885, Vol. 4 No.12, December 2012.
- [15] Ghadami, **J. Rahebi** and Y. Yaylı, “A fast method based on DeMoivre for spherical linear interpolation in Minkowski space”, *Energy Education Science and Technology Part A: Energy Science and Research*, Volume (issues) 31(1), pp. 33-38, April, 2012.
- [16] **J. Rahebi** and H. R. Tajik, "Biomedical Image Edge Detection using an Ant Colony Optimization Based on Artificial Neural Networks", *International Journal of Engineering Science and Technology*, pp. 8211-8218, Vol. 3 No.12, December 2011.

### **Conference Paper**

- [17] Husham Sajir; **Javad Rahebi**; Amir Abed; Ali Farzamnia, “Reduce power losses and improve voltage level by using distributed generation in radial distributed grid”, IEEE 2nd International Conference on Automatic Control and Intelligent Systems (I2CACIS), 2017, pp. 128 – 133.
- [18] Amir Hameed Abed; **Javad Rahebi**; Ali Farzamnia, “Improvement for power quality by using dynamic voltage restorer in electrical distribution networks”, IEEE 2nd International Conference on Automatic Control and Intelligent Systems (I2CACIS), 2017, pp. 122 – 127.
- [19] Mohammed Al-jumaili; **Javad Rahebi**; Ayhan Akbas; Ali Farzamnia, “Economic dispatch optimization for thermal power plants in Iraq”, IEEE 2nd International Conference on Automatic Control and Intelligent Systems (I2CACIS), 2017, pp. 140 – 143.

- [20] Amir Hameed Abed; **Javad Rahebi**; Husham Sajir; Ali Farzamia, “Protection of sensitive loads from voltages fluctuations in Iraqi grids by DVR”, IEEE 2nd International Conference on Automatic Control and Intelligent Systems (I2CACIS), 2017, 144 – 149.
- [21] Ali Farzamia, Ngu War Hlaing, Manas Kumar Haldar, **Javad Rahebi**, “Channel Estimation for Sparse Channel OFDM Systems using Least Square and Minimum Mean Square Error Techniques”, ICET2017, IEEE, Antalya, Turkey, 2017.
- [22] **J. Rahebi**, “Optimization of Energy Load in Wireless Sensor Networks”, 3<sup>rd</sup> International Scientific Conference of Iranian Academics in Turkey, 15 February 2013.
- [23] **J. Rahebi**, Z. Elmi, A. Farzamia and K. Shayan, “Digital Image Edge Detection Using an Ant Colony Optimization Based on Genetic Algorithm”, *IEEE Conference on Cybernetics and Intelligent Systems*, pp. 145-149, June, 2010.

### **Research Projects**

1. Classification and detection fingerprint with Artificial Neural Network.
2. Peak to Average Power Ratio (PAPR) Reduction Techniques in OFDM for Wireless Communications.
3. Human Identification based on Palm print using Local Binary Pattern.
4. Identification through the iris using fuzzy logic and Artificial Neural Network.
5. Face recognition using Local Binary Pattern.
6. Retinal Vessel Segmentation using ANN
7. Digital image edge detection using Neural Network.
8. Kidney detection in MRI imaging using fuzzy logic.
9. Object tracking in video signals with Active Contour Models (snake).
10. Performance of MIMO-OFDM Based Indoor Visible Light Communication.
11. Energy-Efficient clustering based communication protocol with dividing the overall network area for Wireless Sensor Networks.
12. Design, Implementation and Evaluation of a Low Energy Consumption Method for Wireless Sensor Networks.
13. Design, Implementation and Assessment of Cluster Head Election Protocol for Coverage Preservation in Wireless Sensor Networks.
14. Visible Light Communication

15. Cars velocity estimation in roads with Doppler phenomenon
16. Temperature of weather estimation by Adaptive Filter

### **Journal Reviewer**

Plos One, ISSN: 1932-6203, (Science Citation Index Expanded)

Journal of Medical Systems, ISSN: 1573-689X, (Science Citation Index Expanded)

IET image processing, ISSN: 1751-9659, (Science Citation Index Expanded)

### **Languages**

**English:** TOEFL, TOEIC

**Turkish:** TÖMER

**Persian:** Fluent in speaking; writing, reading, and listening

### **Research interests**

Artificial intelligence (fuzzy logic, neural network, genetic algorithm)

Ant colony optimization and their application in Telecommunication Engineering

Wireless Sensor Networks

Visible Light Communication

Image Processing

Signal Processing

Optimization Methods

### **Contact information**

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