

Hossein Rabbani

Senior Member,
IEEE

Professor
Department of Biomedical Engineering,
Isfahan University of Medical Sciences
&
Medical Image & Signal Processing
Research Centre



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Objective and Fields of Interest

- Objective** Research in multidimensional signal processing including biosignal analysis and modeling (especially medical image/volume), sparse transforms, noise reduction and estimation problem, image/video restoration, probability models of sparse domain's coefficients.
- Fields of interest** Biomedical signal analysis and processing including multidimensional data, time-frequency analysis tools including x-lets, denoising, statistical signal processing, applied mathematics (currently I am focusing on Statistical & Mathematical Modeling of Medical Signals and Systems).

Academic Qualifications

- 2013 –2014** Postdoctoral Research Fellow, Duke Eye Center, Durham, United States.
- Research topic: “Automatic Analysis of Various Types of Leakages in Fluorescein Angiograms and Optical Coherence Tomography (OCT)”
 - Supervisor: Prof. Sina Farsiu
- 2011** Postdoctoral Research Scholar, The University of Iowa, Iowa, United States.
- Research topic: “Optical Coherence Tomography (OCT) Image Analysis”
 - Supervisors: Prof. Milan Sonka & Prof. Michael Abramoff
- 2007** Visiting Research Scholar, Electrical & Computer Engineering Department, Queen’s University, Kingston, Ontario, Canada.
- Research topic: “Statistical modeling of sparse domain’s coefficients and its application to medical image/volume denoising”
 - Supervisor: Prof. Saeed Gazor.

2002 – 2008

Doctoral Researches, Bioelectrics (1st rank in entrance exam)

Department of Biomedical Engineering (The Center of Excellence on Biomedical Engineering in Iran), **Amirkabir University of Technology** (Tehran Polytechnic), **Tehran, Iran.**

- Dissertation research topic: **“Medical Image/Volume Noise Reduction in Multidimensional Complex Wavelet Transform Domain Using Bivariate Mixture Models”**
- Supervisor: Prof. Mansur Vafadust
- Passed Ph.D. courses: advanced digital signal processing, biomedical signal processing, advanced biomedical signal processing, advanced digital image processing, advanced digital communication, spread spectrum, system identification, advanced neural network.
- Passed the qualifying examination in Sept. 2004.

2000 – 2002

Master of Science, Bioelectrics (3rd rank)

Department of Biomedical Engineering (The Center of Excellence on Biomedical Engineering in Iran), **Amirkabir University of Technology** (Tehran Polytechnic), **Tehran, Iran.**

- Dissertation research topic: **“Video Restoration based on Motion Estimation in Complex Wavelet Domain”**
- Supervisor: Prof. Mansur Vafadust
- Advisor: Prof. Shohreh Kasaei
- Passed M.Sc. courses: digital signal processing, biomedical signal processing, digital image processing, medical imaging systems, stochastic processes, statistical pattern recognition, digital control systems, bioinstrument, and neural network.

1997 – 2000

Bachelor of Science, Communication (1st rank)

Department of Electrical and Computer Engineering, Isfahan University of Technology, Isfahan, Iran.

- Dissertation research topic: **“Designing and Constructing of Laser Communication between Two Computers”**

Work Experience

2003-2016

Teaching

- **Undergraduate level courses**
(B.Sc. students, Amirkabir University of Technology):

- Statistics and probability
 - Analog and digital communication systems
- **Graduate level courses**
(M.Sc. & Ph.D. students, Isfahan University of Medical Sciences):
- Advanced Biomedical Signal Processing
 - Biological Signal & System Modeling
 - Biomedical Signal Processing
 - Digital Image Processing
 - Digital Signal Processing
 - Information Technology in Biomedicine
 - Medical Image Processing & Analysis
 - Neural Networks
 - Pattern Recognition
 - Stochastic Processes
 - Sparse Transforms and Their Applications in Signal Processing
 - System Identification
 - Advanced Biological Signal & System Modeling
 - Convex Optimization

Supervising and Advising

- **Supervisor:**

Postdoc projects (in progress):

- CS-based Hardware/Software development of OCT (A-scan, B-scan, C-scan)
- Designing a combinatory method (DL-based, Statistical-based, Sparse representation-based) for classification of DR
- Modeling of ocular images using optimum basis functions (DL & MCA)
- Intra-retinal layer and fluid segmentation of 3D OCT images by deep learning
- Quantitative analysis of hemorrhages in colour Fundus images
- Cyst detection in OCT images using mathematical models
- OCT modeling: statistical modeling vs. geometrical modeling vs. energy-based modeling
- Synchronized analysis of EEG, MRI images, and SPECT images of patients suffering from seizure

PhD dissertation researches:

- Combination of graph-based algorithms and time-frequency methods for processing of OCTs
- Seeking an appropriate feature extraction method for breast cancer recurrence prediction based on microarray gene expression data

- A new model based on Gaussianization of OCT data
- Automatic analysis of features of AMD in OCT images using 3D curvelet transform
- Automatic detection of acute myeloid leukemia in microscopic images using dictionary learning
- Automatic diagnosis of Mild Cognitive Impairment (MCI) by dictionary learning -based analysis of EEG signals
- 3D OCT Classification by Deep Learning
- Fully automated segmentation of fluid/cyst regions in OCT images using neutrosophic sets and graph algorithms
- 3D Sparse Reconstruction of Cone-beam CT
- Multivariate Statistical Modeling of OCT Images
- Energy-based Modeling of OCT Images
- Introducing a Novel System for Persian Signature Recognition (Offline and Online) and Its Verification Based on x-let Transforms
- Study on the Application of the Markov Model for Breast Cancer Modeling Using Gene Expression Data

PhD dissertation researches (in progress):

- Sparse Representation of PH Monitoring Signals
- Sparse Representation of OCT Images
- Obtaining Optimum Basis Functions for Modeling of OCT Images in Sparse Domains to Classify Abnormal and Normal Samples
- Modeling of Retinal OCT Based on Mixture of Stochastic Differential Equations

M.Sc. dissertation researches:

- Detection of cystoid B-Scans in OCT Images using hidden Markov model and AlexNet
- Image restoration using Gaussian mixture models with neighborhood nonlocal clustering
- Evaluation of the symmetricity of cup to disk ratio in left and right eyes of normal subjects
- Mosaicing macula OCT images and OCT optical disk
- Designing a dictionary for OCT images based on K-SVD algorithm using texture characteristics of retinal layers for image segmentation
- Automatic segmentation of corneal layer boundaries in OCT images and obtaining 3D thickness maps of the cornea and inner layers
- Automatic detection of leishman bodies in bone marrow samples from patients with visceral leishmaniasis using level set method
- Evaluation of asymmetricity of right and left eyes of normal subjects using extracted features from OCT and color fundus images

- Automatic diagnosis of malaria based on complete circle-ellipse fitting search algorithm
- Automatic segmentation and recognition of lung nodules in thoracic CT images using active contour modeling and convex hull
- Segmentation of EDI-OCT images using graph cut algorithm based on Gaussian mixture model of wavelet features
- Forming projection images from retinal layers on the 3D OCT data and fusion of them using curvelet transform to form an optimal projection image
- Evaluation of image pre-compensation methods for enhancing visual efficiency in the presence of higher order ocular optical aberrations
- Extraction of 15-lead ECG signal from vectorcardiogram (VCG) signal using partial linear transformation for providing information from posterior side of the heart
- Detection of foveal avascular zone (FAZ) based on curvelet transform for grading of diabetic retinopathy
- Extraction of nucleolus candidate zone in white blood cells of peripheral blood smear images using curvelet transform
- A comparison between hp version of finite element method with EIDORS for electrical impedance tomography
- A comparison between ECG and VCG signals for detection of ischemia location
- Estimation of somatosensory evoked potentials with multi-adaptive filters
- A contourlet-based watermarking method for medical images
- Automatic detection of diabetic retinopathy by extraction of retinal image features in curvelet domain
- Estimating depth of anesthesia based on wavelet transform and neuro-fuzzy systems
- Microcalcification detection in mammographic images using fractal model in wavelet domain
- Persian script character recognition using PCA
- A comparison between ECG and VCG for detection of ischemia
- Automatic detection and recognition of lung nodule in CT image based on active contour
- Complexity analysis of EEG signals for Mild Cognitive Impairment (MCI) diagnosis
- 3D segmentation of proximal enamel lesions in micro-ct images
- Automatic analysis of tracheal acoustic signals for apnea detection and introducing new clinical indices of depth of sedation
- Statistical modeling of 3D OCT data by mixture model

B.Sc. dissertation research entitled:

- Angle detection for biomaterial based on image processing

- **Advisor:**

PhD dissertation researches:

- Retinal Image Registration of 3D OCT Volumes and Fluorescein Angiography Images
- Sparse Representation and Dictionary Learning for Super-resolution of OCT Images

M.Sc. dissertation researches:

- Investigation and simulation of optical systems for Fundus photography of human eye by Cell phone camera
- Optimization of visual stimulus sequence in a Brain-Computer Interface based on code modulated visual evoked potentials
- Automatic detection of microaneurysms in OCT images
- Polyp detection/segmentation in video colonoscopy by convolutional neural network
- Transform based ellipse detection in microscopic images using elliptical basis functions
- Automatic extraction and recognition of myeloma cell in microscopic bone marrow aspiration images
- Extraction of candida fungus from pap smear images based on ridgelet transform for vulvovaginal candidiasis diagnosis
- Extraction of vessels, optic disc and fovea avascular zone from fundus fluorescein angiogram based on Hessian analysis of directional curvelet subbands
- Medical image compression with multi-wavelet
- A new adaptive technique for fast and accurate estimation of SSAEP

Honors

- I was really interested in studying mathematics before entering university and all of my grades in this field were excellent. I participated in the entrance exam of universities.
 - My grades in this exam were:
 - ✓ Mathematics: **98/100**
 - ✓ Physics: **86.7/100**
 - ✓ Chemistry: **91.2/100**
 - I had this opportunity to choose **all of the best universities** in Iran.
- B.Sc. Degree with the honor of the **1st rank** from Isfahan University of Technology.
- M.Sc. Degree with the honor of the **3rd rank** from Amirkabir University of Technology.
- **1st rank** in the Ph.D. entrance exam of Amirkabir University of Technology in bioelectrics.

- **1st rank** in the Ph.D. entrance exam of Isfahan University of Technology in communication engineering.
- **Outstanding selected Ph.D. thesis** by Iranian Society for Biomedical Engineering.
- **The winner of national prize of “Young Assistant Professors”.**
- **IEEE, Elected Senior Member, 2013**

Membership

- ✓ IEEE Senior Member
- Signal Processing Society, Engineering in Medicine and Biology Society

Article Reviewer

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| ✓ IEEE Trans. on Image Processing | ✓ Pattern Recognition |
| ✓ IEEE Trans. on Signal Processing | ✓ Signal Processing |
| ✓ IEEE Trans. on Medical Imaging | ✓ Computers in Biology & Medicine |
| ✓ IEEE Trans. on Biomedical Engineering | ✓ Digital Signal Processing |
| ✓ IEEE Trans. On Pattern Analysis & Machine Intelligence | ✓ Biomedical Signal Processing & Control |
| ✓ IEEE Signal Processing Letters | ✓ Pattern Recognition Letters |
| ✓ IEEE Reviews in Biomedical Engineering | ✓ Ultrasonics |
| ✓ IEEE Trans. on Geoscience & Remote Sensing | ✓ Journal of Biophotonics |
| ✓ IEEE Trans. on Circuits & Systems for Video Technology | ✓ Journal of Biomedical Optics |
| ✓ IEEE Trans. on Multimedia | ✓ Measurement |
| ✓ IEEE Trans. on Systems, Man, and Cybernetics-Part B: Cybernetics | ✓ Computer Methods and Programs in Biomedicine, |
| ✓ IEEE Trans. on Biomedical Circuits and Systems | ✓ Journal of Visual Image Communication & Representation |
| ✓ IEEE Journal of Biomedical and Health Informatics | ✓ Applied Optics |
| ✓ IEEE Access | ✓ Optics Letters |
| ✓ IEEE Trans. on Instrumentation & Measurement | ✓ Journal of Optical Society of America A |
| ✓ SIAM Journal on Control and Optimization | ✓ Applied Soft Computing |
| ✓ IET Image Processing Journal | ✓ Biomedical Optics Express |
| ✓ IET Signal Processing Journal | ✓ PLOS ONE |
| ✓ IET Computer Vision | ✓ Journal of Medical Systems |
| | ✓ The Computer Journal |
| | ✓ Medical & Biological Engineering & Computing |
| | ✓ Neural Computing & Applications |

- ✓ Journal of Applied Mathematics
- ✓ EURASIP Journal on Image and Video Processing
- ✓ Signal, Image and Video Processing
- ✓ Multidimensional Systems & Signal Processing
- ✓ Circuits, Systems & Signal Processing
- ✓ Current Medical Imaging Reviews
- ✓ International Journal of Pattern Recognition and Artificial Intelligence
- ✓ Journal of Innovative Optical Health Sciences
- ✓ Medical Principles & Practice
- ✓ Measurement Science Review
- ✓ Electronics Letters
- ✓ SPIE Journal of Medical Imaging
- ✓ Complexity
- ✓ Progress in Electromagnetic Research (PIER)
- ✓ BMC Open
- ✓ BMC Medical Imaging
- ✓ Biomedical Engineering OnLine
- ✓ International Journal of Imaging Systems and Technology
- ✓ Mathematical Problems in Engineering
- ✓ Cognitive Neurodynamics
- ✓ Journal on Modern Optics
- ✓ Optik
- ✓ Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization
- ✓ Journal of Research in Medical Sciences
- ✓ Iranian Journal of Biomedical Engineering
- ✓ Iranian Journal on Electrical & Computer Engineering
- ✓ Iranian Journal of Physics Research
- ✓ Several International IEEE Conferences and National Conferences

Editorial Board Member:

- ✓ Journal of Medical Signals and Sensors (Editor-in-Chief)

Publications

International Journal Papers

1. A. Rasouli, **H. Rabbani***, S. Kermani, M. Raisi, M. Soheilipour and P. Adibi, "A Multichannel Intraluminal Impedance Gastroesophageal Reflux Characterization Algorithm Based on Sparse Representation," IEEE Journal of Biomedical and Health Informatics. 2021. doi: 10.1109/JBHI.2021.3076212
2. M. Tajmirrahi, Z. Amini*, A. Hamidi, A. Zam and **H. Rabbani**, "Modeling of Retinal Optical Coherence Tomography Based on Stochastic Differential Equations: Application to Denoising," IEEE Transactions on Medical Imaging. 2021. doi: 10.1109/TMI.2021.3073174
3. E. Golkar, **H. Rabbani***, and A. Dehghani, "Hybrid registration of retinal fluorescein angiography and optical coherence tomography images of patients with diabetic retinopathy," Biomed. Opt. Express, vol. 12, pp. 1707-1724, 2021.

4. M. Samieinasab, Z. Amini and **H. Rabbani***, "Multivariate Statistical Modeling of Retinal Optical Coherence Tomography," *IEEE Transactions on Medical Imaging*, vol. 39, no. 11, pp. 3475-3487, Nov. 2020.
5. Z. Amini, **H. Rabbani*** and I. Selesnick, "Sparse Domain Gaussianization for Multi-Variate Statistical Modeling of Retinal OCT Images," *IEEE Transactions on Image Processing*, vol. 29, pp. 6873-6884, 2020.
6. N. Teyfour, **H. Rabbani***, R. Kafieh and I. Jabbari, "An Exact and Fast CBCT Reconstruction via Pseudo-Polar Fourier Transform-Based Discrete Grangeat's Formula," *IEEE Transactions on Image Processing*, vol. 29, pp. 5832-5847, 2020.
7. P. G. Daneshmand, **H. Rabbani*** and A. Mehridehnavi, "Super-Resolution of Optical Coherence Tomography Images by Scale Mixture Models," *IEEE Transactions on Image Processing*, vol. 29, pp. 5662-5676, 2020.
8. M. Tajmirrahi, R. Kafieh*, Z. Amini and **H. Rabbani**, "A Lightweight Mimic Convolutional Auto-Encoder for Denoising Retinal Optical Coherence Tomography Images," *IEEE Transactions on Instrumentation and Measurement*, vol. 70, pp. 1-8, 2021, Art no. 4503908.
9. P. G. Daneshmand, A. Mehridehnavi* and **H. Rabbani***, "Reconstruction of Optical Coherence Tomography Images Using Mixed Low Rank Approximation and Second Order Tensor Based Total Variation Method," *IEEE Transactions on Medical Imaging*, vol. 40, no. 3, pp. 865-878, March 2021.
10. M. Monemian and **H. Rabbani***, "Analysis of a Novel Segmentation Algorithm for Optical Coherence Tomography Images Based on Pixels Intensity Correlations," *IEEE Transactions on Instrumentation and Measurement*, vol. 70, pp. 1-12, 2021, Art no. 5002012.
11. M. Behboodi, A. Mahnam*, H. Marateb and **H. Rabbani**, "Optimization of Visual Stimulus Sequence in a Brain-Computer Interface Based on Code Modulated Visual Evoked Potentials," *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, vol. 28, no. 12, pp. 2762-2772, Dec. 2020.
12. M. Momenzadeh, M. Sehhati*, **H. Rabbani**, "Using hidden Markov model to predict recurrence of breast cancer based on sequential patterns in gene expression profiles," *Journal of Biomedical Informatics*, vol. 111, 2020, Article no. 103570.
13. M. Monemian, **Hossein Rabbani***, "Mathematical analysis of texture indicators for the segmentation of optical coherence tomography images," *Optik*, vol. 219, 2020, Article no. 165227.
14. X. He, L. Fang*, **H. Rabbani**, X. Chen, Z. Liu, "Retinal optical coherence tomography image classification with label smoothing generative adversarial network," *Neurocomputing*, vol. 405, pp. 37-47, 2020.
15. R. Almasi, A. Vafaei*, Z. Ghasemi, M. R. Ommani, A. R. Dehghani, and **Hossein Rabbani***, "Registration of fluorescein angiography and optical coherence tomography images of curved retina via scanning laser ophthalmoscopy photographs," *Biomed. Opt. Express*, vol. 11, pp. 3455-3476, 2020.
16. O. Sarrafzadeh, **H. Rabbani***, A. Mehri Dehnavi, A. Talebi, "Cirplet transform in cell and tissue microscopy," *Optics & Laser Technology*, vol. 124, 2020, Article no. 106000.

17. E. Mousavi, R. Kafieh*, **H. Rabbani**, "Classification of dry age-related macular degeneration and diabetic macular oedema from optical coherence tomography images using dictionary learning", *IET Image Processing*, vol. 14, no. 8, pp. 1571-1579, 2020.
18. M. Esmaeili, A. Mehridehnavi, F. Hajizadeh, and **H. Rabbani***, "Three-dimensional curvelet-based dictionary learning for speckle noise removal of optical coherence tomography," *Biomed. Opt. Express*, vol. 11, pp. 586-608, 2020.
19. M. Mokhtari, **H. Rabbani***, A. Mehridehnavi, R. Kafieh, M. Akhlaghi, M. Pourazizi, L. Fang, "Local comparison of cup to disc ratio in right and left eyes based on fusion of color fundus images and OCT B-scans", *Information Fusion*, vol. 51, pp. 30-41, 2019.
20. M. Kashefpoor, **H. Rabbani***, M. Barekatin, "Supervised dictionary learning of EEG signals for mild cognitive impairment diagnosis", *Biomedical Signal Processing & Control*, vol. 53, pp. 101559, 2019.
21. Z. Khodabandeh, **H. Rabbani**, AM Dehnavi*, O. Sarrafzadeh, "The Ellipselet Transform," *J Med Signals Sens.* vol.9, no. 3, pp. 145-157, 2019.
22. M. Momenzadeh, M. Sehhati*, **H. Rabbani**, "A novel feature selection method for microarray data classification based on hidden Markov model", *Journal of Biomedical Informatics*, vol. 95, pp. 103213, 2019.
23. L. Huang, X. He, L. Fang*, **H. Rabbani** and X. Chen, "Automatic Classification of Retinal Optical Coherence Tomography Images with Layer Guided Convolutional Neural Network," *IEEE Signal Processing Letters*, vol. 26, no. 7, pp. 1026-1030, July 2019.
24. A. Abbasi, A Monadjemi*, L Fang*, **H Rabbani**, Yi Zhang, "Three-dimensional optical coherence tomography image denoising through multi-input fully-convolutional networks", *Computers in Biology and Medicine*, vol. 108, pp. 1-8, May 2019.
25. R. Kafieh, **H. Rabbani** and G. Unal*, "Bandlets on Oriented Graphs: Application to Medical Image Enhancement," *IEEE Access*, vol. 7, pp. 32589-32601, 2019.
26. M. Aghanouri, A. Ghaffari, N.Dadashi*, H. Rabbani, P. Adibi, "New image-guided method for localisation of an active capsule endoscope in the stomach", *IET Image Processing*, vol. 13, no. 12, pp. 2321-2327, 2019.
27. R. Sharbati, H. R. Ramazi, F. Khoshnoudian, H. R. Amindavar & **H. Rabbani**, "Stochastic Model for Simulation of Ground-Motion Sequences Using Kernel-Based Smoothed Wavelet Transform and Gaussian Mixture Distribution", *Journal of Earthquake Engineering*, 2019. DOI: 10.1080/13632469.2019.1605948.
28. L. Fang, C. Wang, S. Li, **H. Rabbani**, X. Chen and Z. Liu, "Attention to Lesion: Lesion-Aware Convolutional Neural Network for Retinal Optical Coherence Tomography Image Classification," *IEEE Transactions on Medical Imaging*, vol. 38, no. 8, pp. 1959-1970, 2019.
29. M. Lashgari, M. Shahmoradi, **H. Rabbani***, M. Swain, "Missing Surface Estimation Based on Modified Tikhonov Regularization: Application for Destructed Dental Tissue," *IEEE Transactions on Image Processing*, vol. 27, no.5, pp. 2433-2446, 2018.
30. A. Rashno, D. D. Koozekanani, P. M. Drayna, B. Nazari, S. Sadri, **H. Rabbani**, K. K. Parhi*, "Fully-Automated Segmentation of Fluid/Cyst Regions in Optical Coherence Tomography Images with Diabetic Macular Edema using Neutrosophic Sets and Graph Algorithms," *IEEE Transactions on Biomedical Engineering*, vol. 65, no. 5, pp. 989-1001,

May 2018.

31. R. Rasti, **H. Rabbani***, A. Mehridehnavi and F. Hajizadeh, "Macular OCT Classification using a Multi-Scale Convolutional Neural Network Ensemble," *IEEE Transactions on Medical Imaging*, vol. 37, no. 4, pp. 1024-1034, 2018.
21. A. Abbasi, A.H. Monadjemi*, L. Fang, **H. Rabbani**, "Optical Coherence Tomography Retinal Image Reconstruction via Nonlocal Weighted Sparse Representation", *Journal of Biomedical Optics*, vol. 23, no. 3, 036011, 2018.
22. R. Rasti, A. Mehri Dehnavi*, **H. Rabbani**, F. Hajizadeh, "Automatic Diagnosis of Abnormal Macula in Retinal OCT Images Using Wavelet-Based Convolutional Neural Network Features and Random Forests Classifier", *Journal of Biomedical Optics*, vol. 23, no. 3, 036011,035005, 2018.
23. S. Momeni, O. Sarrafzadeh, **H. Rabbani***, "Automatic Brain Aneurysm Extraction in Angiography Videos Using Circlet Transform and a Modified Level Set Model", *Current Medical Imaging Reviews*, vol. 14, no. 6, pp. 923-932, 2018.
24. M. Momenzadeh, A. Vard*, A. Talebi, A. M. Dehnavi, **H. Rabbani**, "Computer-Aided Diagnosis Software for Vulvovaginal Candidiasis Detection from Pap Smear Images", *Microscopy Research & Technique*, vol. 81, no. 1, pp. 13-21, 2018.
25. A. Ahdi, **H. Rabbani***, A. Vard, "A Hybrid Method for 3D Mosaicing of OCT Images of Macula and Optic Nerve Head," *Computers in Biology and Medicine*, vol. 91, pp. 277-290, 2017.
26. L. Fang *, Ch. Wang, Sh. Li, J. Yan, X. Chen, **H. Rabbani**, "Automatic Classification of Retinal 3D OCT Images Using Principle Component Analysis Network with Composite Kernels", *Journal of Biomedical Optics*, vol. 22, no. 11, 116011, 2017.
27. A. Rashno, B. Nazari, D. D. Koozekanani, P.M. Drayna, S. Sadri, **H. Rabbani** and K.K. Parhi*, "Fully-Automated 2D and 3D Segmentation of Fluid Regions in Exudative Age-Related Macular Degeneration Subjects: Kernel Graph Cut in Neutrosophic Domain," *PLOS ONE*, vol. 12, no. 10, e0186949, 2017.
28. Z. Amini, **H. Rabbani***, "Optical Coherence Tomography Image Denoising Using Gaussianization Transform", *Journal of Biomedical Optics*, vol. 22, no. 8, pp. 1-12, 2017.
29. M. Momenzadeh, M.R. Sehhati*, A. Mehri Dehnavi, A. Talebi, **H. Rabbani**, "Automatic Diagnosis of Vulvovaginal Candidiasis from Pap smear Images", *Journal of Microscopy*, vol. 267, no. 3, pp. 299-308, 2017.
30. L. Fang* , L. Yang , Shutao Li , **H. Rabbani** , Zh. Liu, X. Chen, Q. Peng, "Automatic Detection and Recognition of Multiple Macular Lesions in Retinal OCT Images with Multi-instance Multi-label Learning", *Journal of Biomedical Optics*, vol. 22, no. 6, 066014, 2017.
31. M.J. Allingham*, D. Mukherjee, E.B. Lally, **H. Rabbani**, P.S. Mettu, S.W. Cousins, S. Farsiou, "A Quantitative Approach to Predict Differential Effects of Anti-VEGF Treatment on Diffuse and Focal Leakage in Patients with Diabetic Macular Edema - A Pilot Study", *Translational Vision Science & Technology*, vol. 7, no. 6, 2017.
32. Z. Amini, **H. Rabbani***, "Letter to the Editor: Correction to "The Normal-Laplace Distribution and its Relatives", *Communications in Statistics - Theory and Methods*, vol. 46, no. 4, pp. 2076-2078, 2017.

33. M. Esmaeili, A. Mehri-Dehnavi, and **H. Rabbani***, "3D Curvelet-Based Segmentation and Quantification of Drusen in Optical Coherence Tomography Images", *Journal of Electrical and Computer Engineering*, vol. 2017 (2017), Article ID 4362603, 12 pages.
34. Z. Amini, **H. Rabbani***, "Statistical Modeling of Retinal Optical Coherence Tomography", *IEEE Transactions on Medical Imaging*, vol. 35, no. 6, pp. 1544-1554, 2016.
35. O. Sarrafzadeh, **H. Rabbani**, A. Mehri Dehnavi*, A. Talebi, "Analyzing Features by SWLDA for the Classification of HEp-2 Cell Images Using GMM", *Pattern Recognition Letters*, vol. 82, part 1, pp. 44-85, Oct. 2016.
36. M. Shahmoradi, M. Lashgari, **H. Rabbani***, J. Qin, M. Swain, "A comparative study of new and current methods for dental micro-CT image denoising", *Dentomaxillofacial Radiology*, vol. 45, no. 3, 2016.
37. Z. Amini, **H. Rabbani***, "Classification of Medical Image Modeling Methods: A Review", *Current Medical Imaging Reviews*, vol. 12, no. 2, pp. 130-148, 2016.
38. **H. Rabbani**, R. Kafieh*, M. Kazemian Jahromi, et al., "Obtaining Thickness Maps of Corneal Layers Using the Optimal Algorithm for Intracorneal Layer Segmentation," *International Journal of Biomedical Imaging*, vol. 2016, Article ID 1420230, 11 pages, 2016.
39. M. Niknejad, **H. Rabbani***, M. Babaei-Zadeh, "Image Restoration Using Gaussian Mixture Models with Spatially Constrained Patch Clustering," *IEEE Transactions on Image Processing*, vol. 24, no. 11, pp. 3624-3636, Nov. 2015.
40. R. Kafieh, **H. Rabbani***, I. Selesnick, "Three-Dimensional Data-Driven Multi Scale Atomic Representation of Optical Coherence Tomography", *IEEE Transactions on Medical Imaging*, vol. 34, no. 5, pp. 1042-1062, 2015.
41. **H. Rabbani***, M.J. Allingham, P.S. Mettu, S.W. Cousins, S. Farsiu, "Fully Automatic Segmentation of Fluorescein Leakage in Subjects with Diabetic Macular Edema", *Investigative Ophthalmology and Visual Science*, vol. 56, no. 3, pp. 1482-1492, 2015.
42. MR. Sehhati*, A. Mehri, **H. Rabbani**, M. Pourhossein, "Stable Gene Signature Selection for Prediction of Breast Cancer Recurrence Using Joint Mutual Information", *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, vol. 12, no. 6, pp. 1440-1448, 2015.
43. Z. Saeedizadeh, A. Mehri*, A. Talebi, **H. Rabbani**, O. Sarrafzadeh, A. Vard, "Automatic Recognition of Myeloma Cells in Microscopic Images using Bottleneck algorithm, Modified Watershed and SVM Classifier", *Journal of Microscopy*, vol. 261, no. 1, pp. 46-56, 2015.
44. R. Kafieh, **H. Rabbani***, F. Hajizadeh, M. D. Abramoff and M. Sonka, "Thickness Mapping of Eleven Retinal Layers in Normal Eyes Using Spectral Domain Optical Coherence Tomography", *Journal of Ophthalmology*, Article ID 259123, 14 pages, 2015.
45. A. Soltanipour, S. Sadri, **H. Rabbani***, MR Akhlaghi, "Analysis of Fundus Fluorescein Angiogram Based on the Hessian Matrix of Directional Curvelet Sub-bands and Distance Regularized Level Set Evolution", *Journal of Medical Signals and Sensors*, vol. 5, no.3, pp. 141-155, 2015.
46. **H. Rabbani*** and S. Gazor, "Local Probability Distribution of Natural Signals in Sparse

- Domains,” *Int. J. Adaptive Control & Signal Processing*, vol. 28, no. 1, pp. 52-62, Jan. 2014.
47. SH. Hajeb, **H. Rabbani***, MR. Akhlaghi, “A New Combined Method Based on Curvelet Transform and Morphological Operators for Automatic Detection of Foveal Avascular Zone”, *Signal, Image & Video Processing*, vol. 8, no. 2, pp. 205-222, Feb. 2014.
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