# Hamid Soltanian Zadeh, Ph.D .

School of Electrical and Computer Engineering

University of Tehran

Tel (Direct): +98 (21)82084909

email: hszadeh@ut.ac.ir

Website:

**EDUCATION**

**Ph.D In برق الکترونیک**University of Michigan 1989-1992  
**Bachelor of Science In برق الکترونیک**University of Tehran 1985-1887  
**B.Sc In برق الکترونیک**University of Tehran 1978-1984

**PUBLICATIONS**

|  |  |  |  |  |
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| **4849** | **33** | **145** | **325** | **2** |
| Citations | h-Index | Article | Conference | Book |

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**144.** Resting State Functional Connectivity in Medial Temporal Lobe Epileptic Patients: Seed-Based Correlation Analysis in Resting State after ICA. Soltanian Zadeh Hamid (2012)., 3rd Biennial Conference on Resting State Brain Connectivity, 5-7 September, Magdeburg, Germany.  
  
**145.** Segmentation of Crohn Lymphangiectasia Xanthoma Lymphoid Hyperplasia and Stenosis diseases in WCE. Soltanian Zadeh Hamid, (2012)., XXIV Conference of the European Federation of Medical Informatics, 26-29 August, Pisa, Italy.  
  
**146.** Structural Analysis of Stroke Lesions Using MRI. Soltanian Zadeh Hamid, (2012)., 34th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 24-27 August, San Diego, United States Of America.  
  
**147.** Automatic Informative Tissues Discriminators in WCE. Soltanian Zadeh Hamid, (2012)., 2012 IEEE International Conference on Imaging Systems and Techniques, 16-17 July, Manchester.  
  
**148.** Brain Connectivity Analysis to Study Chronic Short Sleep. Soltanian Zadeh Hamid (2012)., 26th Annual Meeting of the APSS - American Academy of Sleep Medicine, 9-13 June, Boston, United States Of America.  
  
**149.** the accuracy of dual energy mapping approach in CTAC in presence of low concentration of contrast agent. Soltanian Zadeh Hamid, (2012)., 10th Asia Oceania Congress of Nuclear Medicine and Biolog, 16-20 May, Tehran, Iran.  
  
**150.** Numerical Solutions to t he Bloch - McConnell Equations with Radio Frequency Irradiation Scheme for CEST MR. Soltanian Zadeh Hamid, (2012)., 20th Iranian Conference on Elec. Eng, 15-17 May, Tehran, Iran.  
  
**151.** Effects of Improved Adaptive Gamma Correction Method on Wireless Capsule Endoscopy Images: Illumination Compensation and Edge Detection. Soltanian Zadeh Hamid, (2012)., 20th Iranian Conference on Elec. Eng., 15-17 May, Tehran, Iran.  
  
**152.** Confidence - Based Data Mining for Decision Support in Temporal Lobe Epilepsy Surgery. Soltanian Zadeh Hamid, (2012)., 8th Annual Research Symposium of Henry Ford Health System, 10-11 May, Detroit, United States Of America.  
  
**153.** E - Health Infrastructure to Maximize Benefits of Medical Image Analysis Research. Soltanian Zadeh Hamid (2012)., 6th International Conference on e - Commerce in Developing Countries, 9-10 May, Shiraz, Iran.  
  
**154.** statistical Shape Analysis of Hippocampus in Temporal Lobe Epilepsy Based on Laplace - Beltrami Eigenfunction Level Sets. Soltanian Zadeh Hamid, (2012)., 6th S ymposium on Artificial Intelligence and Signal Processing, 2-3 May, Shiraz, Iran.  
  
**155.** Hippocampal Shape Analysis i n t he Laplace Beltrami Featur e Space f or Temporal Lobe Epilepsy Diagnosis a nd Lateralization. Soltanian Zadeh Hamid, (2012)., 201 2 IEEE International Symposium on Biomedical Imagin, 2-5 May, Barcelona, Spain.  
  
**156.** Automatic Organs Detection in WCE. Soltanian Zadeh Hamid, (2012)., 16th S ymposium on Artificial Intelligence and Signal Processing, 2-3 May, Shiraz, Iran.  
  
**157.** Adaptive Coherent Modulation Filtering f or Single Channel Speech Separation. Shahbandi Mahmoud, Sheikh Alhokamaei Emadoldin, Soltanian Zadeh Hamid (2012)., 37th International Conference on Acoustics Speech and Signal Processing, 24-30 March, Kyoto, Japan.  
  
**158.** Lithological classification using image processing technique. Soltanian Zadeh Hamid (2012)., 2012 SME Annual Meeting, 19-22 February, Seattle, United States Of America.  
  
**159.** Universal Image Steganalysis against Spatial-domain Steganography based on Energy Distribution of Singular Values. Soltanian Zadeh Hamid, (2011)., Seventh International Conference on Information Technology and Applications (ICITA2011, 21-25 November, Sydney, Australia.  
  
**160.** Semantic Video Analysis Using Intelligent Systems. Soltanian Zadeh Hamid (2011)., 4th Broadcast Engineering Conference, 20-22 November, Tehran, Iran.  
  
**161.** Sport Video Classification using an Ensemble Classifier. Soltanian Zadeh Hamid (2011)., 7th Iranian Conference on Machine Vision and Image Processing (MVIP2011, 16-17 November, Tehran, Iran.  
  
**162.** Identification of Brain Regions in Addiction Using Detection-Estimation Analysis of fMRI. Soltanian Zadeh Hamid, (2011)., 5th National Congress on Addiction Biology, 22-24 June, Tehran, Iran.  
  
**163.** FLAIR-SPECT Fusion for Lateralizing Mesial Temporal Lobe Epilepsy. Soltanian Zadeh Hamid (2011)., 8th Annual Research Symposium of Henry Ford Health System, 12-13 May, Detroit, United States Of America.  
  
**164.** Use of Endothelial Progenitor Cells as Gene Carrier and Multimodal Imaging Probes. Soltanian Zadeh Hamid, (2011)., ISMRM2011, 7-13 May, Montral, Canada.  
  
**165.** A Novel Method for Identification of COPD in Inspiratory and Expiratory States of CT Images. Soltanian Zadeh Hamid, (2011)., MECBME2011, 21-24 February, Sharjah, United Arab Emirates.  
  
**166.** Assessing Lung Volumetric Variation to Detect and Stage COPD. Soltanian Zadeh Hamid, (2011)., MECBME2011, 21-24 February, Sharjah, United Arab Emirates.  
  
**167.** Consensus Feature Ranking in Datasets with Missing Values. Soltanian Zadeh Hamid, (2010)., ICMLA2010, 12-14 December, Washington, United States Of America.  
  
**168.** Single Channel Speech Separation with a Frame-based Pitch Range Estimation Method in Modulation Frequency. Soltanian Zadeh Hamid, (2010)., IST2010, 4-6 December, Tehran, Iran.  
  
**169.** Determination of Pitch Range Based on Onset and Offset Analysis in Modulation Frequency Domain. Soltanian Zadeh Hamid, (2010)., IST2010, 4-6 December, Tehran, Iran.  
  
**170.** Cardiac Cine MRI Using Compressive Sensing Principles. Soltanian Zadeh Hamid (2010)., ICBME2010, 3-4 November, Isfahan, Iran.  
  
**171.** Spatio-temporal Localization of Focal Epileptic Sources from Intracranial Electrocortical Recordings using an Independent Component Analysis (ICA Algorithm. Soltanian Zadeh Hamid (2010)., ICBME2010, 3-4 November, Isfahan, Iran.  
  
**172.** Attribute Ranking for Lateralizing Focal Epileptogenicity in Temporal Lobe Epilepsy. Soltanian Zadeh Hamid, (2010)., ICBME2010, 3-4 November, Isfahan, Iran.  
  
**173.** Evaluation of Changes in Surface and Volume of Lung in Chronic Obstructive Pulmonary Disease. Soltanian Zadeh Hamid, (2010)., ICBME2010, 3-4 November, Isfahan, Iran.  
  
**174.** Comparison of Hierarchical and Sequential Clustering Methods for Analysis of DTI Data of TLE. Soltanian Zadeh Hamid (2010)., MVIP2010, 27-28 October, Isfahan, Iran.  
  
**175.** Derivation of Error Probability of Compressive Sensing Methods Based on Information Theoretic Concepts. Soltanian Zadeh Hamid (2010)., MVIP2010, 27-28 October, Isfahan, Iran.  
  
**176.** A New Scheme for Evaluation of Air-Trapping in CT Images. Soltanian Zadeh Hamid, (2010)., MVIP2010, 27-28 October, Isfahan, Iran.  
  
**177.** Effect of Classifiers in Consensus Feature Ranking for Biomedical Datasets. Soltanian Zadeh Hamid, (2010)., ACM Forth International Workshop on Data and Text Mining in Biomedical Informatics (DTMBIO in conjunction with CIKM, 26 October, Toronto, Canada.  
  
**178.** Extended Kalman Filtering of Point Process Observation. Soltanian Zadeh Hamid, (2010)., 32nd Annual International IEEE EMBS Conference, 31 August-4 September, Buenos Aires, Argentina.  
  
**179.** Noise and Outlier Filtering in Heterogeneous Medical Data Sources. Soltanian Zadeh Hamid (2010)., 21st International Conference on Database and Expert Systems Applications, 30 August-3 September, Bilbao, Spain.  
  
**180.** Automatic Recognition of Five Types of White Blood Cells in Peripheral Blood. Soltanian Zadeh Hamid (2010)., International Conference on Image Analysis and Recognition, 21-23 August, Portugal.  
  
**181.** Spectral Clustering Approach with Sparsifying Technique for Functional Connectivity Detection in the Resting Brain. Soltanian Zadeh Hamid (2010)., International Conference on Intelligent and Advanced Systems, 15-17 June, Kuala Lumpur, Malaysia.  
  
**182.** Predicting Treatment Results of Brain Tumors Using Multiparametric MRI and Neural Network. Soltanian Zadeh Hamid, (2010)., 18th Iranian Conference on Elec. Eng., 11-13 May, Isfahan, Iran.  
  
**183.** Comparison of Voxel-Based Morphometry (VBM and Tractography of Diffusion Tensor MRI (DT-MRI in Temporal Lobe Epilepsy. Soltanian Zadeh Hamid (2010)., 18th Iranian Conference on Elec. Eng, 11-13 May, Isfahan, Iran.  
  
**184.** SPHARM-Based Shape Analysis of Hippocampus for Lateralization in Mesial Temporal Lobe Epilepsy. Soltanian Zadeh Hamid, (2010)., 18th Iranian Conference on Elec. Eng, 11-13 May, Isfahan, Iran.  
  
**185.** Multiple-Atlas-Based Automatic Sementation of Hippocampus for Lateralization in Temporal Lobe Epilepsy. Akhondi-asl A.r., Soltanian Zadeh Hamid (2010)., 2010 IEEE International Symposium on Biomedical Imaging: From Macro to Nano, 14-17 April, Rotterdam, Netherlands.  
  
**186.** Multi-Scale Approach for Retinal Vessel Segmentation Using Medialness Function. Soltanian Zadeh Hamid (2010)., 2010 IEEE International Symposium on Biomedical Imaging: From Macro to Nano, 14-17 April, Rotterdam, Netherlands.  
  
**187.** DTI-Based Lateralization in Temporal Lobe Epilepsy. Soltanian Zadeh Hamid (2010)., 7th Annual Research Symposium of Henry Ford Health System, 13-14 April, Detroit, United States Of America.  
  
**188.** Automated Segmentation of Hippocampus Using Multiple Atlas for Lateralization in Temporal Lobe Epilepsy. Soltanian Zadeh Hamid (2010)., 7th Annual Research Symposium of Henry Ford Health System, 13-14 April, Detroit, United States Of America.  
  
**189.** Develop and Evaluate an Integrated E/MEG and fMRI Multi-Area Model. Soltanian Zadeh Hamid (2010)., 7th Annual Research Symposium of Henry Ford Health System, 13-14 April, Detroit, United States Of America.  
  
**190.** Comparison of Canonical Correlation Analysis and ICA Techniques for fMRI. Soltanian Zadeh Hamid (2010)., 4th International Symposium on Communications Control and Signal Processing, 3-5 March, Limassol, Cyprus.  
  
**191.** Multiparametric MRI ISODATA Analysis in the Assessment of Acute Ischemic Stroke. Soltanian Zadeh Hamid, (2010)., International Stroke Conference 2010, 23-26 February, San Antonio, United States Of America.  
  
**192.** Diffusion Tensor Imaging of Parahippocampal Gyrus as a Lateralizing Tool in Intractable Temporal Lobe Epilepsy. Ar. Akhondi-asl, Soltanian Zadeh Hamid (2009)., 2009 Annual Meeting of the American Epilepsy Society, 1 November, Boston, United States Of America.  
  
**193.** Tract Based Spatial Statistical Analysis of Diffusion Parameters in Temporal Lobe Epilepsy. Soltanian Zadeh Hamid (2009)., 16th Iranian Conference on Biomedical Engineering, 30-31 October, Tehran, Iran.  
  
**194.** Integrating Location and Tissue Type Information in Entropy-Based Coupled Object Segmentation of Brain Structures. Soltanian Zadeh Hamid (2009)., 16th Iranian Conference on Biomedical Engineering, 30-31 October, Tehran, Iran.  
  
**195.** Outcome Prediction of Bevacizumab Treatment of Brain Tumor Patients Using Multiparametric MRI. Soltanian Zadeh Hamid, (2009)., 16th Iranian Conference on Biomedical Engineering, 30-31 October, Tehran, Iran.  
  
**196.** Evaluation of specific fiber bundles using brain mapping and registration of diffusion tensor data. Soltanian Zadeh Hamid (2009)., 6th IBMISPS World Congress for Brain Mapping and Image Guided Therapy, 26-29 August, Boston, United States Of America.  
  
**197.** Diffusion Tensor Imaging Characteristic of Parahippocampal gyrus in Temporal Lobe Epilepsy. Akhondi-asl A.r., Soltanian Zadeh Hamid (2009)., 6th IBMISPS World Congress for Brain Mapping and Image Guided Therapy, 26-29 August, Boston, United States Of America.  
  
**198.** Atlas-based Fiber Bundle Segmentation Using Principal Diffusion Directions and Spherical Harmonic Coefficients. Nazem Zadeh Mohammad Reza, Davoodi-bojd Esmaeil, Soltanian Zadeh Hamid (2009)., 6th IBMISPS World Congress for Brain Mapping and Image Guided Therapy, 26-29 August, Boston, United States Of America.  
  
**199.** Atlas-Based Segmentation of White Matter Fiber Bundles Using Reduced Position Orientation Space (RPOS). Davoodi-bojd E., Soltanian Zadeh Hamid (2009)., 6th IBMISPS World Congress for Brain Mapping and Image Guided Therapy, 26-29 August, Boston, United States Of America.  
  
**200.** Automatic Segmentation of Hippocampus for lateralization in Temporal Lobe Epilepsy. Akhondi-asl A.r., Soltanian Zadeh Hamid (2009)., 6th IBMISPS World Congress for Brain Mapping and Image Guided Therapy, 26-29 August, Boston, United States Of America.  
  
**201.** Automatic Segmentation of Brain Structures Using Geometric Moment Invariants and Artificial Neural Networks. Soltanian Zadeh Hamid (2009)., IPMI’09, 5-10 July, Williamsburg, United States Of America.  
  
**202.** Neural Substrates of Social Functioning in Individuals with Velocardofacial Syndrome (VCFS). Soltanian Zadeh Hamid, (2009)., 15th Annual Meeting of the Organization for Human Brain Mapping, 18-22 June, San Francisco, United States Of America.  
  
**203.** Predicting Final Extent of Ischemic Infarction Using an Artificial Neural Network Analysis of Multiparametric MRI in Patients with Stroke. Soltanian Zadeh Hamid, (2009)., IJCNN’2009, 14-19 June, Atlanta, United States Of America.  
  
**204.** Increasing Speed of Magnetic Resonance Imaging Using Compressive Sampling. Soltanian Zadeh Hamid (2009)., ICEE’09, 12-14 June, Tehran, Iran.  
  
**205.** Lateralization in Temporal Lobe Epilepsy Using Automatic Segmentation of Hippocampus. Akhondi-asl A.r., Jafari-khouzani K., Soltanian Zadeh Hamid (2009)., 6th Annual Research Symposium of Henry Ford Health System, 14-15 May, Detroit, United States Of America.  
  
**206.** Parameter Estimation of Integrated E/MEG and fMRI Model Based on Variational Bayesian Framework. Soltanian Zadeh Hamid (2009)., 6th Annual Research Symposium of Henry Ford Health System, 14-15 May, Detroit, United States Of America.  
  
**207.** Comparison of SPECT Intensity Features and MRI Volume Measures for Lateralization in Temporal Lobe Epilepsy. Soltanian Zadeh Hamid, (2009)., 6th Annual Research Symposium of Henry Ford Health System, 14-15 May, Detroit, United States Of America.  
  
**208.** Segmentation of Putamen Using Geometric Moment Invariants and Neural Networks. Soltanian Zadeh Hamid (2009)., ICEE’09, 12-14 May, Tehran, Iran.  
  
**209.** Particle Filtering of Point Processes Observation with Application on the Modeling of Visual Cortex Neural Spiking Activity. Soltanian Zadeh Hamid (2009)., NER'09, 29 April-2 May, Antalya, Turkey.  
  
**210.** Sparse differential connectivity graph of scalp EEG for epileptic patients. Amini Ladan, Soltanian Zadeh Hamid, (2009)., 17th European Symposium on Artificial Neural Networks ESANN 2009, 22-24 April, Brugge , Belgium.  
  
**211.** White Matter Tractography by Diffusion Tensor Imaging in Insular Epilepsy. Soltanian Zadeh Hamid (2009)., ISMRM’2009, 18-24 April, Hawaii, United States Of America.  
  
**212.** Symmetric Analysis of EEG and fMRI Using Nonlinear Models: A Simulation Study. Soltanian Zadeh Hamid (2009)., SPARS’2009, 6-9 April, Saint-Malo, France.  
  
**213.** Reconstruction of Undersampled Cardiac Cine MRI data Using Compressive Sensing Principles. Soltanian Zadeh Hamid (2009)., SPARS’2009, 6-9 April, Saint-Malo, France.  
  
**214.** New Method for Detection of Brain Activations from MEG Signals. Rajabioun M., Soltanian Zadeh Hamid (2009)., CSICC'2009, 11-12 March, Tehran, Iran.  
  
**215.** Grid Based Registration of Diffusion Tensor Images Using Least Square Support Vector Machines. Davoodi-bojd E., Soltanian Zadeh Hamid (2009)., ICSICC’2008, 8-10 March, Kish Island, Iran.  
  
**216.** Polar Run-Length Features in Segmentation of Retinal Blood Vessels. Rezatofighi Sh., Roodaki Alireza, Pourmorteza Amir, Soltanian Zadeh Hamid (2009)., ICDIP’2009, 7-9 March, Bangkok, Thailand.  
  
**217.** Automatic Segmentation of Putamen using Geometric Moment Invariants. Jabarouti-moghaddam M., Soltanian Zadeh Hamid (2009)., ICBME’09, 12-13 February, Mashhad, Iran.  
  
**218.** Effect of Spherical Harmonic Coefficients on Fiber Bundle Segmentation. Nazemzadeh Mohammadreza, Davoodi-bojd E., Soltanian Zadeh Hamid (2009)., ICBME’09, 12-13 February, Mashhad, Iran.  
  
**219.** Validation of Proposed Integrated MEG and fMRI Model Using Real Data. Soltanian Zadeh Hamid, (2009)., ICBME’08, 11-12 February, Tehran, Iran.  
  
**220.** DTI data modeling for unlimited query support. Soltanian Zadeh Hamid, (2009)., SPIE Medical Imaging 2009 Advanced PACS-based Imaging Informatics and Therapeutic Applications, 6-11 February, Orlando, United States Of America.  
  
**221.** Multi-Area Integrated E/MEG and fMRI Modeling. Soltanian Zadeh Hamid (2009)., SPIE Medical Imaging 2009 Biomedical Applications in Molecular Structural and Functional Imaging, 6-11 February, Orlando, United States Of America.  
  
**222.** Combinational Method for Focal Brain Activation Detection Using MEG Signal. Rajabioun M., Soltanian Zadeh Hamid (2009)., SPIE Medical Imaging 2009 Biomedical Applications in Molecular Structural and Functional Imaging, 6-11 February, Orlando, United States Of America.  
  
**223.** Variational Bayesian Framework for Estimating Parameters of Integrated E/MEG and fMRI Model. Soltanian Zadeh Hamid (2009)., SPIE Medical Imaging 2009 Biomedical Applications in Molecular Structural and Functional Imaging, 6-11 February, Orlando, United States Of America.  
  
**224.** Cytotoxic T-cells as Cellular Probes to Differentiate Glioma from Radiation Injury by MRI. Soltanian Zadeh Hamid, (2008)., 94th Scientific Assembly and Annual Meeting of the Radiological Society of North America RSNA2008, 30 November-5 December, Chicago, United States Of America.  
  
**225.** Application of artificial intelligence techniques in the diagnosis and assessment of multiple sclerosis. Soltanian Zadeh Hamid, (2008)., 5th International MS Congress of Iran, 12-13 November, Tehran, Iran.  
  
**226.** Optimization of Intermediate Layer Features of the HMAX Object Recognition Model. Soltanian Zadeh Hamid (2008)., MVIP08, 4-6 November, Tabriz, Iran.  
  
**227.** Fingerprint Recognition Based on Gabor Filter and FLD/RFLD Transformation. Roshanitabrizi Pooneh, Soltanian Zadeh Hamid, (2008)., MVIP2008, 3-5 November, Tabriz, Iran.  
  
**228.** Fiber Bundle Segmentation Using Level-Set Method and Spherical Harmonic Coefficients. Nazemzadeh Mohammadreza, Davoodi-bojd E., Soltanian Zadeh Hamid (2008)., MVIP2008, 3-5 November, Tabriz, Iran.  
  
**229.** White Matter Tract Segmentation Using Spherical Harmonic Coefficients. Nazemzadeh Mohammadreza, Davoodi-bojd E., Soltanian Zadeh Hamid (2008)., Second Iranian Imaging Informatics Conference, 14-16 October, Tehran, Iran.  
  
**230.** MEG Source Localization via Bayesian Kernels. Khosravi Hamid, Soltanian Zadeh Hamid (2008)., Second Iranian Imaging Informatics Conference, 14-16 October, Tehran, Iran.  
  
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**232.** Integrated MEG and fMRI Model Synthesis Analysis and Validation Using Auditory Data. Soltanian Zadeh Hamid (2008)., 10th International Conference on Cognitive Neuroscience ICON X, 1-5 September, Turkey.  
  
**233.** Using Variational Bayesian Expectation Maximization VBEM Method for Multi-AreaIntegrated MEG/fMRI Model. Soltanian Zadeh Hamid (2008)., BIOMAG2008, 25-28 August, Sapporo, Japan.  
  
**234.** Atlas-Based Segmentation of Brain Structures in Temporal Lobe Epilepsy Using Optimized Voxel-Based Morphometry. Shaker M., Soltanian Zadeh Hamid (2008)., CARS2008, 25-28 June, Barcelona, Spain.  
  
**235.** Magnetically labeled transgenic endothelial progenitor cells and dendritic cells as probes for cellular MRI and gene delivery vehicles. Soltanian Zadeh Hamid, Rad Am., (2008)., DOD Breast Cancer Research Program Meeting Era of Hope Baltimore, 25-28 June, Baltimore, United States Of America.  
  
**236.** A Hierarchical Fuzzy Clustering Model for Myocardial Segmentation in Cardiac SPECT Images. Soltanian Zadeh Hamid, (2008)., Society of Nuclear Medicine SNM 55th Annual Meeting, 14-18 June, New Orleans, United States Of America.  
  
**237.** Re-orientation of the Left Ventricles Long-Axis in Cardiac SPECT Images Using a Statistical Recursive Method. Soltanian Zadeh Hamid, (2008)., Society of Nuclear Medicine SNM 55th Annual Meeting, 13-18 June, New Orleans, United States Of America.  
  
**238.** Assessment of the wavelet transform in reduction of noisefrom the simulated PET images. Soltanian Zadeh Hamid (2008)., 8th Iranian Congress of Medical Physics, 28-29 May, Tehran, Iran.  
  
**239.** Constrained Optimization of Nonparametric Entropy-Based Segmentation of Brain Structures. Akhondi-asl A.r., Soltanian Zadeh Hamid (2008)., ISBI08, 14-17 May, Paris, France.  
  
**240.** Atlas Based Segmentation of White Matter Fiber Bundles in DT-MRI Using Fractional Anisotropy and Principal Eigen vectors. Davoodi-bojd E., Soltanian Zadeh Hamid (2008)., ISBI08, 14-17 May, Paris, France.  
  
**241.** Evaluation of Intracellular Water Exchange on MRI Relaxation Time Using Lee Model. Yahaghi E., Soltanian Zadeh Hamid (2008)., ICEE08, 13-15 May, Tehran, Iran.  
  
**242.** Speech Enhancement Using Combination of Blind Source Separation and Kalman Filtering. Soltanian Zadeh Hamid (2008)., ICEE08, 13-15 May, Tehran, Iran.  
  
**243.** Effect of the Number of Coupled Structures on the Segmentation of Brain Structures from MRI. Akhondi-asl A.r., Soltanian Zadeh Hamid (2008)., ICEE08, 13-15 May, Tehran, Iran.  
  
**244.** Adaptive Traffic Prediction in Self-Sizing Networks Using Wavelets. Soltanian Zadeh Hamid (2008)., ICEE08, 13-15 May, Tehran, Iran.  
  
**245.** Automatic Segmentation of Brain Structures from MRI Integrating Atlas-Based Labeling and Level Set Method. Shaker M., Soltanian Zadeh Hamid (2008)., 21st Canadian Conference on Electrical and Computer Engineering, 5-7 May, Canada.  
  
**246.** A Blood Circulatory Model to Estimate the Arterial Input Function in MR Brain Perfusion Studies. Soltanian Zadeh Hamid, (2008)., ISMRM2008, 3-6 May, Toronto, Canada.  
  
**247.** SPECT Analysis of Hippocampus and Amygdale of Lateralization in Temporal Lobe Epilepsy. Soltanian Zadeh Hamid, Elisevich K. (2008)., 5th Annual Research Symposium of Henry Ford Health System, 25 April, Detroit, United States Of America.  
  
**248.** Validation of Integrated EEG/MEG and fMRI Model Using Real Data. Soltanian Zadeh Hamid, (2008)., 5th Annual Research Symposium of Henry Ford Health System, 25 April, Detroit, United States Of America.  
  
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**250.** 4D Wavelet Noise Suppression of MR Diffusion Tensor Data. Yazdani A., Soltanian Zadeh Hamid (2008)., ICASSP2008, 30 March-4 April, Las Vegas, United States Of America.  
  
**251.** Voxel-Based Morphometric Study of Brain Regions from Magnetic Resonance Images in Temporal Lobe Epilepsy. Shaker M., Soltanian Zadeh Hamid (2008)., SSIAI2008, 24-26 March, Santa Fe, United States Of America.  
  
**252.** Context-Dependent Segmentation of Retinal Blood Vessels Using Hidden Markov Models. Pourmorteza Amir, Rezatofighi Sh., Roodaki Alireza, Yazdani A., Soltanian Zadeh Hamid (2008)., the 13th International CSI Computer Conference, 9-11 March, Kish, Iran.  
  
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**256.** Noise reduction in simulated PET images using wavelet and thresholding method. Soltanian Zadeh Hamid, (2007)., ITBS-2007, 23-29 September, Greece.  
  
**257.** White Matter Abnormalities and Changes of Gray Matter Concentration in Hippocampus, Amygdala, and Entorhinal Cortex of Temporal Lobe Epilepsy Patients. Shaker M., Soltanian Zadeh Hamid (2007)., Imaging Informatics Conference, 6-7 September, Tehran, Iran.  
  
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**259.** Predicting Final Infract Size and Pattern of 3-Month Lesion in MRI for Patients with Ischemic Stroke: Using Artificial Neural Network Technique. Soltanian Zadeh Hamid, (2007)., Joint Annual Meeting ISMRM-ESMRMB, 19-25 May, Berlin, Germany.  
  
**260.** Integrated Cluster Analysis of DTI and MRSI for Brain Tumors. Soltanian Zadeh Hamid, (2007)., Joint Annual Meeting ISMRM-ESMRMB, 19-25 May, Berlin, Germany.  
  
**261.** Designing Matched Wavelets with the Maximum Coding Gain Criterion for R Peak Detection in ECG Signal. Badizadegan Sh., Soltanian Zadeh Hamid (2007)., ICEE'07, 15-17 May, Tehran, Iran.  
  
**262.** Using B-Splines to Estimate Partial Volume. Soltanian Zadeh Hamid (2007)., 4th Annual Research Symposium of Henry Ford Health System, 13 April, Detroit, United States Of America.  
  
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**264.** Magnetically Labeled Sensitized Splenocytes to Identify Glioma by MRI. Arbab A.s., Rad Am., Soltanian Zadeh Hamid, (2007)., 4th Annual Research Symposium of Henry Ford Health System, 13 April, Detroit, United States Of America.  
  
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**266.** Integrated Model for Simultaneous Analysis of EEG or MEG with fMRI. Soltanian Zadeh Hamid (2007)., 4th Annual Research Symposium of Henry Ford Health System, 13 April, Detroit, United States Of America.  
  
**267.** Three-Dimensional Wavelet Analysis for TLE Lateralization. Soltanian Zadeh Hamid, (2007)., 4th Annual Research Symposium of Henry Ford Health System, 13 April, Detroit, United States Of America.  
  
**268.** Multi-subject fMRI analysis using fuzzy clustering. Soltanian Zadeh Hamid (2007)., 4th Annual Research Symposium of Henry Ford Health System, 13 April, Detroit, United States Of America.  
  
**269.** Nonparametric Entropy-Based Coupled Multi-Shape Medical Image Segmentation. Akhondi-asl A.r., Soltanian Zadeh Hamid (2007)., ISBI'07, 12-15 April, Arlington, United States Of America.  
  
**270.** Automatic Brain Tumor Segmentation Using Tissue Diffisivity Characteristics. Soltanian Zadeh Hamid (2007)., ISBI'07, 12-15 April, Arlington, United States Of America.  
  
**271.** Recovery Limitations of MEG Source Localization Model for Epilepsy. Soltanian Zadeh Hamid (2007)., ISBI'07, 12-15 April, Arlington, United States Of America.  
  
**272.** Fast Independent Component Analysis and Tensor Deflection for Estimating Multiple Fibers per Voxel. Khodavardian Ch., Soltanian Zadeh Hamid (2007)., CSICC'07, 22-24 February, Tehran, Iran.  
  
**273.** Coupled Object Segmentation Using Entropy and Fuzzy Characteristics of Tissues. Bahman Bijari P., Akhondi-asl A.r., Soltanian Zadeh Hamid (2007)., ICBME'07, 20-21 February, Tehran, Iran.  
  
**274.** Estimation of Multiple Fibers per Voxel Using Fast Independent Component Analysis. Khodaverdian Ch., Soltanian Zadeh Hamid (2007)., ICBME'07, 20-21 February, Tehran, Iran.  
  
**275.** Extraction of Magnetic Resonance Spectroscopic Imaging (MRSI). Torbatian Zahra, Soltanian Zadeh Hamid (2007)., ICBME?07, 20-21 February, Tehran, Iran.  
  
**276.** Diffusion Tensor Digital Phantom for Crossing Fiber Detection. Soltanian Zadeh Hamid, (2007)., MVIP'07, 14-15 February, Mashhad, Iran.  
  
**277.** Designing a Testing Framework for Assessing the Robustness of White Matter Fiber Tracking Algorithms. Soltanian Zadeh Hamid, (2007)., IRSA, 18 January, Tehran, Iran.  
  
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**279.** MR Spectroscopy Guided Brain Tumor Detection and Evaluation Using Fuzzy Clustering. Torbatian Zahra, Soltanian Zadeh Hamid (2006)., CIBEC'06, 21-24 December, Cairo, Egypt.  
  
**280.** DTI Crossing Fibers Estimation Using Fast Independent Component Analysis. Kodavardian Ch., Soltanian Zadeh Hamid (2006)., CIBEC'06, 21-24 December, Cairo, Egypt.  
  
**281.** Designing Matched Wavelets for R Peak Detection in ECG Signal. Badizadegan Sh., Soltanian Zadeh Hamid (2006)., CIBEC'06, 21-24 December, Cairo, Egypt.  
  
**282.** Computerized Gleason Grading of Prostate Pathological Samples. Farjam R., Soltanian Zadeh Hamid, (2006)., 8th Annual Congress of Pathology and 2nd Annual Congress of Iranian Cancer Association, 2-4 November, Tehran, Iran.  
  
**283.** Fixed and Random Effect Analysis of Multi-subject Spatial Activation Maps in Wavelet Domain. Soleymani M., Soltanian Zadeh Hamid (2006)., IEEE World Congress on Computational Intelligence, 15-21 June, Vancouver, Canada.  
  
**284.** Medical Data Mining using Particle Swarm Optimization for Temporal Lobe Epilepsy. Soltanian Zadeh Hamid, (2006)., IEEE World Congress on Computational Intelligence, 15-21 June, Vancouver, Canada.  
  
**285.** Fuzzy Edge Preserving Smoothing Filter Using Robust Region Growing. Mehrtash A., Soltanian Zadeh Hamid (2006)., IEEE World Congress on Computational Intelligence, 15-21 June, Vancouver, Canada.  
  
**286.** R Peak Detection in ECG Signal Using Matched Wavelets. Badizadegan Sh., Soltanian Zadeh Hamid (2006)., 7th Annual Research Congress of Iranian Medical Sciences Students, 30 May-1 June, Tehran, Iran.  
  
**287.** DT-MRI Noise Reduction Based on 2D Anisotropic Diffusion Filtering. Torbatian Zahra, Soltanian Zadeh Hamid (2006)., 7th Annual Research Congress of Iranian Medical Sciences Students, 30 May-1 June, Tehran, Iran.  
  
**288.** Refinement of Active Contour Based Thalamus Segmentation Using Genetic Algorithm. Bahman Bijari P., Akhondi-asl A.r., Soltanian Zadeh Hamid (2006)., 7th Annual Research Congress of Iranian Medical Sciences Students, 30 May-1 June, Tehran, Iran.  
  
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**290.** Extraction of ECG Characteristic Points by Wavelet Transform. Badizadegan Sh., Torbatian Zahra, Soltanian Zadeh Hamid (2006)., ICEE'06, 16-18 May, Tehran, Iran.  
  
**291.** Using Real MEG and fMRI Data for Parameter Estimation of the Integrated Model. Babajani A., Soltanian Zadeh Hamid (2006)., ICEE'06, 16-18 May, Tehran, Iran.  
  
**292.** Thalamus Segmentation in MRI Using Region and Gradient Information in Level sets. Bahman Bijari P., Soltanian Zadeh Hamid, Akhondi-asl A.r. (2006)., ICEE'06, 16-18 May, Tehran, Iran.  
  
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**296.** Construction of Rules for Knowledge-Based Anatomical Landmark Localization (K-BALL). Soltanian Zadeh Hamid, (2006)., 3rd Annual Research Symposium of Henry Ford Health System, 21 April, Detroit, United States Of America.  
  
**297.** Noise suppression in magnetic resonance diffusion tensor imaging. Soltanian Zadeh Hamid (2006)., 3rd Annual Research Symposium of Henry Ford Health System, 21 April, Detroit, United States Of America.  
  
**298.** Subdural and Depth Electrode Placement in the Brain for Validation of MEG in Partial Epilepsy. Soltanian Zadeh Hamid, (2006)., 3rd Annual Research Symposium of Henry Ford Health System, 21 April, Detroit, United States Of America.  
  
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**306.** Neural Network Scoring of Spots in X-Gal and eu Plates. Soltanian Zadeh Hamid, Finley R., Fotouhi F. (2005)., IEEE NAFIPS Annual Conference on Soft Computing for Real World Applications, 22-28 September, Ann Arbor, United States Of America.  
  
**307.** Uncertain Decision-Making Schemes for Knowledge-Based Anatomical Landmark Localization (K-BALL). Soltanian Zadeh Hamid, Fotouhi F., Elisevich K.v. (2005)., IEEE NAFIPS Annual Conference on Soft Computing for Real World Applications, 22-28 September, Ann Arbor, United States Of America.  
  
**308.** Quantitation of Intracellular and Free Iron Using MRI of Labeled Gliosarcoma (9L) and T-cells. Mohammadi-rad A., Arbab A.s., Jiang Q ., Soltanian Zadeh Hamid (2005)., Fourth Annual Meeting of the Society for Molecular Imaging, 7-10 September, Cologne, Germany.  
  
**309.** Detection of the Margin of Glioma by MRI Using Magnetically Labeled Sensitized Splenocytes. Arbab A.s., Brown S., Mohammadi-rad A., Jiang Q ., Ewing Jr., Soltanian Zadeh Hamid (2005)., Fourth Annual Meeting of the Society for Molecular Imaging, 7-10 September, Cologne, Germany.  
  
**310.** FePro Labeled Splenocytes as Cellular Probe for MRI to Delineate the Margin, Early Detection of Recurrent or Metastatic Glioma. Arbab A.s., Brown S., Mohammadi-rad A., Jiang Q ., Ewing Jr., Soltanian Zadeh Hamid (2005)., 13th Scientific Meeting of the International Society of Magnetic Resonance in Medicine, 7-13 May, Miami, United States Of America.  
  
**311.** Texture analysis of high-resolution FLAIR images for TLE. Soltanian Zadeh Hamid, Elisevich K. (2005)., 2nd Annual Research Symposium of Henry Ford Health System, 15 April, Detroit, United States Of America.  
  
**312.** Effect of Intracellular SPIO on T2 Signal Intensity and T2 Map: Comparison with Free SPIO. Mohammadi-rad A., Arbab A.s., Soltanian Zadeh Hamid (2005)., 2nd Annual Research Symposium of Henry Ford Health System, 15 April, Detroit, United States Of America.  
  
**313.** Medical Image Database for Temporal Lobe Epilepsy. Soltanian Zadeh Hamid, Fotouhi F., Elisevich K. (2005)., 2nd Annual Research Symposium of Henry Ford Health System, 15 April, Detroit, United States Of America.  
  
**314.** Hardware design and reconstruction results of SUT-1 EIT system. Soleimani M., Kargarnovin Mh., Soltanian Zadeh Hamid (2005)., International Conference on Biological and Medical Physics, 27-30 March, Al-Ain, United Arab Emirates.  
  
**315.** Leakage form Blood Brain Barrier: Effect of Injection Profile on Plasma and Extravascular Concentrations. Soltanian Zadeh Hamid, Shahriarei M., (2005)., International Conference on Biological and Medical Physics, 27-30 March, Al-Ain, United Arab Emirates.  
  
**316.** sEMG Classification For Upper-Limb Prosthesis Control Using Higher Order Statistics. Nazarpour K., Soltanian Zadeh Hamid (2005)., ICASSP2005, 19-24 March, Philadelphia, United States Of America.  
  
**317.** Integrated MEG and fMRI Model. Babajani A., Nekooei Mh., Soltanian Zadeh Hamid (2005)., CSIC2005, 15-17 March, Tehran, Iran.  
  
**318.** Exploring Relationship between fMRI and MEG Using a New Model. Babajani A., Nekooei Mh., Soltanian Zadeh Hamid (2005)., MVIP 2005, 24-25 February, Tehran, Iran.  
  
**319.** New Distributed Pattern Recognition Method in Wireless Sensory Networks. Ghannad-rezaei M., Soltanian Zadeh Hamid (2005)., MVIP 2005, 24-25 February, Tehran, Iran.  
  
**320.** A Method for Noise Reduction of Video Images. Solaymani M., Soltanian Zadeh Hamid (2005)., MVIP 2005, 24-25 February, Tehran, Iran.  
  
**321.** Design of Case-Based Reasoning Control Systems using Pattern Recognition Methods. Orafa S., Soltanian Zadeh Hamid (2005)., MVIP 2005, 24-25 February, Tehran, Iran.  
  
**322.** Texture Analysis of High-Resolution FLAIR Images for TLE. Soltanian Zadeh Hamid, Elisevich K. (2005)., SPIE Medical Imaging 2005: Image Processing, 12-17 February, San Diego, United States Of America.  
  
**323.** MRI and SPECT Fusion for Epilepsy Lateralization. Soltanian Zadeh Hamid, Elisevich K. (2005)., SPIE Medical Imaging 2005: Image Processing, 12-17 February, San Diego, United States Of America.  
  
**324.** Quantitative Studies for Molecular Imaging Using MRI. Mohammadi-rad A., Soltanian Zadeh Hamid, Jiang Q ., Gautam S. (2004)., Third Annual Meeting of the Society for Molecular Imaging, 9-12 September, St. Louis, United States Of America.  
  
**325.** Image reconstruction algorithms for SUT-1 EIT System. Nateghi Ar., Soleimani M., Kargarnovin Mh., Soltanian Zadeh Hamid (2004)., XII International Conference On Electrical Bio-Impedance, V Electrical Impedance Tomography, 20-24 June, Gda?sk.

**HONORS and AWARDS**

**Honorable Mention Awards for the best poster presentation at the SPIE Medical Imaging Conference, San Diego, CA, USA** 1997, Tehran, Iran  
  
**Outstanding Researcher, Department of Justice, USA** 1993, Tehran, Iran  
  
**Development of Novel Methods for Integrated Analysis of MEG and fMRI** 2009, Tehran, Iran  
  
**Development of Novel Methods for Integrated Analysis of MEG and fMRI** 2009, Tehran, Iran  
  
**Distinguished Author of International Papers** 2014, Tehran, Iran  
  
**Distinguished Author of International Papers** 2014, Tehran, Iran  
  
**Distinguished Professor of the Country** 2007, Tehran, Iran  
  
**Distinguished Professor of the Country** 2007, Tehran, Iran  
  
**Distinguished Researcher, 5th Festival of Founders of Science and Technology** 2007, Tehran, Iran  
  
**Distinguished Researcher of the Country** 2007, Tehran, Iran  
  
**Distinguished Researcher of University of Tehran** 2009, Tehran, Iran  
  
**Distinguished Researcher of University of Tehran** 2009, Tehran, Iran  
  
**Distinguished Scientist of Islamic Countries** 2008, Tehran, Iran  
  
**Distinguished Scientist of Islamic World** 2008, Tehran, Iran  
  
**Segmentation of Brain Structures in MRI** 2011, Tehran, Iran  
  
**Selected Researcher of University of Tehran** 2003, Tehran, Iran  
  
**University of Tehran Distinguished Researcher** 2014, Tehran, Iran

**ACADEMIC POSITIONS**

**Editorial Board Member/Reviewer of International Journal of Engineering**-  
 1111-Present  
**International Society for Optical Engineering (SPIE)**-  
 1111-Present  
**Society for Molecular Imaging (SMI)**-  
 1111-Present  
**Faculty of Engineering Journal**University of Tehran  
 1111-Present  
**Amir Kabir Journal**University of Amir Kabir   
 1111-Present  
 **Editorial Board Member/Reviewer of Modarres Journal**University of Modarres  
 1111-Present  
**Editorial Board Member IEEE Trans. Signal Processing**-  
 1111-Present  
 **Editorial Board Member IEEE Trans. Med. Imag**-  
 1111-Present  
 **Editorial Board Member IEEE Trans. Biomed. Eng**-  
 1111-Present  
 **Editorial Board Member IEEE Trans. Imag. Proc**-  
 1111-Present  
 **Editorial Board Member Magnetic Resonance in Medicine**-  
 1111-Present  
 **Editorial Board Member Magnetic Resonance Imaging**-  
 1111-Present  
 **Editorial Board Member Stroke**-  
 1111-Present  
 **Editorial Board Member Journal of Engineering**-  
 1111-Present  
**Editorial Board Member Scientia Iranica**-  
 1111-Present  
 **Editorial Board Member Signal processing Letters**-  
 1111-Present  
 **Editorial Board Member Medical Physics**-  
 1111-Present  
**Editorial Board Member Iranian Journal of Biomedical Eng.**-  
 1111-Present  
**International Society of Magnetic Resonance in Medicine (ISMRM)**-  
 1111-Present  
**Institute of Electrical and Electronics Engineers (IEEE)**-  
 1111-Present  
**Iranian Society of Biomedical Engineering (ISBME)**-  
 1111-Present  
**Present Senior Staff Scientist, Radiology Department, Henry Ford Health System**Detroit, MI 48202, USA  
 1993-Present  
**Director of Biomedical Engineering Lab**University of Tehran  
 1994-Present  
**Director of Biomedical Engineering Group**University of Tehran  
 1995-Present  
**Assoc. Prof. of Radiology**Wayne State University, Detroit, MI, USA  
 2004-Present  
**Chairman of the 3rd Iranian Conference on Machine Vision and Image Processing**University of Tehran  
 2005-Present  
**Director of Control and Intelligent Processing Center of Excellence**University of Tehran  
 2005-Present

**COURSES OFFERED**

**Image Signal Processing  
  
Scientific and Technical Presentation Method  
  
Fundamentals of Radiology and Radiotherapy Systems  
  
Image Signal Processing  
  
Presentation of Technical Documents in English  
  
Fundamentals of Radiology and Radiotherapy Systems  
  
Image Signal Processing  
  
Presentation of Technical Documents in English  
  
Digital Signal Processing 2  
  
Fundamentals of Radiology and Radiotherapy Systems**

**LABORATORIES**

**Biomedical Engineering**