<div align="center">**In The Name of GOD**</div>

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Professional Experience:

Electrical and Information Technology Institute, Iran Research Organization for Science and Technology (IROST), Tehran, Iran Deputy of Electrical Engineering Department	2011 – Present

Research Areas and Projects:

Design and Implementation of a System for Distinguishing P300 Signals from other Components of EEG Signal by Using Artificial Intelligence in order to Utilizing in BCI, Iranian Research Organization for Science and Technology, 2018.

Research and Explanation on Indexes and Standards of Driving Skills and Suitable Instruments to Evaluate Each of Indexes, Touring and Automobile Club of the Islamic Republic of Iran 2017.

Feasibility Study: Measuring the pattern of HF and low VHF (bellow 100MHZ) antennas mounted on mast, Iran Communication Industries, Tehran Iran, 2016.

Feasibility Study: Measuring the pattern of Broadcasting antennas mounted on mast, IRIB, Tehran Iran, 2013.

Design and Implementation of Computer Assisted Sperm Analyzer System (Software), Iranian Research Organization for Science and Technology, Tehran, Iran, 2014.

Design and Implementation of an Automatic Scanning Spectrophotometer, Industrial Development and Renovation Organization of Iran, Tehran Iran, 2006.

Design and Implementation of a Computerized Lensometer, Industrial Development and Renovation Organization of Iran, Tehran, Iran, 2005.

Design and Implementation of an Automatic Speech Recognition System with Answer Machine Application, Iran Telecommunications Research Center, Tehran, Iran, 2005.

Journal Publications:

[1] S. Morabi, M. Keyvanpour, **S.V.Shojaedini**, A New Method for P300 Detection in Deep Belief Networks: Nesterov Momentum and Drop Based Learning Rate, Journal of Health and Technology, In Press.

[2] **S.V.Shojaedini,** S. Morabi, M. Keyvanpour, A New Deep Learning Structure to Improve Detection of P300 Signals: Using Supervised Neural Networks as Convolutional Kernel of CNN, International Journal of Biomedical Engineering and Technology, In Press.

[3] **S.V.Shojaedini,** A. Goldar, Target Detection in Bistatic Passive Radars by Using Adaptive Processing Based on Correntropy Cost Function, Journal of Nonlinear Systems in Electrical Engineering, In Press.

[4] **S.V.Shojaedini,** S. Morabi, M. Keyvanpour, A New Method for Detecting P300 Signals by Using Deep Learning: Hyper-Parameter Tuning in High Dimensional Space by Minimizing Non-Convex Error Function, Journal of Medical Signals & Sensors, Vol 8, No 4, 2018.

[5] R. Arkanfari, **S.V.Shojaedini,** A New Method for Detecting Sperms in Microscopy Images: Combination of Zernike Moments and Spatial Processing, Iranian Journal of Medical Physics, Vol 15, No 4, 2018.

[6] **S.V.Shojaedini**, A. Goldar, A New Model Based Signal Processing Scheme for Detecting Delay and Doppler in Bistatic Radars, Journal of Circuits, Systems and Computers, Vol 7, No 14, April 2018.

[7] S. Ghods, **S.V.Shojaedini**, Y. Magsoodi, Determining Optimized Borders for Alpha-Entropy Classification Regions for Dual Compact Polarimetric Data by Using Maximum Likelihood Concept, Journal of Geomatics Science and Technology, Vol 7, June 2018.

[8] **S.V.Shojaedini**, A. Goldar, M. Souri, Correntropy Based Sperm Detection: A Novel Spatiotemporal Processing for Analyzing Videos of Human Semen, Journal of Health and Technology, Springer, Vol 8, Issue 1-2, 2018.

[9] M. Iranianpour, **S.V.Shojaedini**, A New Method for Segmentation of Lesions in Dermoscopy Images: Energy Optimization Based on the Radial Directions, Iranian Journal of Biomedical Engineering, Vol 10, No 4, 2017.

[10] **S.V.Shojaedini**, R.Kasbgar, A New Method for Analyzing Defects in Veneer Images: Hypothesis Testing Based on Gaussian Mixture Decision Function, Bulletin of Transilvania University of Brasov, Vol 10, No 1, 2017.

[11] **S.V.Shojaedini**, M.Rahiminejad, R.Kasbgar, A New Method for Geolocating of Radiation Sources Based on Evolutionary Computation of TDOA Equations, Journal of Electronic and Computer Engineering Innovation, Vol 4, No 2, 2016.

[12] **S.V.Shojaedini**, R. Kasbgar, A. Kermani, A new method for defect detection in lumber images: optimising the energy model by an irregular parametric genetic approach, International Wood Products, Vol 8, No 1, 2017.

[13] S. Ghods, **S.V.Shojaedini**, Y. Magsoodi, A Modified H-α Classification Method for DCP Compact Polarimetric Mode by Reconstructing QUAD H and α Parameters from Dual Ones, IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016.

[14] S. Ghods, **S.V.Shojaedini**, Y. Magsoodi, Reconstruction of full polarimetric by Using Double-Circular Compact Polarimetric Data for RadarSat-2, Journal of Geomatics Science and Technology, 2016.

[15] **S.V.Shojaedini**, A. Parsiannejad, A New Strategy for Harvesting Maximum Energy in Wind Farms Based on Stochastic Modeling, Journal of Computational and Applied Research in Mechanical Engineering (JCARME), 2016.

[16] **S.V.Shojaedini**, M. Mokhtari, R. Kasbgar, A New wavelet Based Spatio-Temporal Method for Magnification of Subtle Motions in Video, International Journal of Engineering, March 2016.

[17] H. Rahmanzadeh, **S.V.Shojaedini**, Novel Automated Method for MiniRhizotrone Image Analysis: Root Detection Using Curvelet Transform, International Journal of Engineering, March 2016.

[18] **S.V.Shojaedini**, R. Kabiri, A. Kermani, M. Freidooni, A New Method for Minimization of the Effect of Measurement Noise in Delay Between Sites in TDOA Based Geolocation, Radar Journal, Feb 2016.

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[20] **S.V.Shojaedini**, A New Fuzzy Level Set Method for Lesion Border Detection in Dermoscopy Images, Journal of Health and Technology, Springer, Dec 2015.

[21] **S.V.Shojaedini**, R. Kasbgar, A New Method for on Defect Detection in Wood Surfaces: Energy Optimization on texture Minimized Surfaces, Iranian Journal of Wood and Paper Industries, 2015.

[22] S. Ghods , **S.V.Shojaedini**, A Novel Automated Image Analysis Method for Counting the Population of Whiteflies on Crops' Leave, Journal of Crop Protection, 2015.

[23] R. Kasbgar , **S.V.Shojaedini**, A Review on Defect Detection Techniques in Wood Surfaces by Using Digital Image Processing, Journal Protection and Utilization of Natural Sources, 2015.

[24] **S.V.Shojaedini**, R. Kasbgar, A New Method for Detecting Lesion Border in Ultrasonic Images of Breast: Modified Adaptive Anisotropic Diffusion. Soft Computing Journal, 2015

[25] **S.V.Shojaedini**, M.Heidari, A New Method for Sperm Detection in Infertility Cure: Hypothesis Testing Based on Fuzzy Entropy Decision, Journal of Electronic and Computer Engineering Innovation, 2015.

[26] **S.V.Shojaedini**, M.Heidari, A New Method for Sperm Characterization for Infertility Treatment: Hypothesis Testing by Using Combination of Watershed Segmentation and Graph Theory, Journal of Medical Signals & Sensors, 2014.

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[28] **S.V.Shojaedini**, A New Method for Joint Estimation of Delay and Doppler from Ambiguity Function, International Journal of Electronics, 2013.

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[30] **S.V.Shojaedini** and A.Parsiannejad, A Novel Method for Optimum Electrical Energy Harvesting from Wind Turbines: A Space-Time Model for Wind Farm by Neuro-Fuzzy Strategy, Journal Of Control (in Persian), 2013.

[31] **S.V.Shojaedini** and R.Kabiri, A New Method for Locating Unknown Number of Emitters: Combination of Graph Theory and TDOA Geolocation, Journal Of Electrical and Computer Engineering (in Persian), 2011.

[32] **S.V.Shojaedini** and R.Kabiri, A New Method for Estimation of Delay and Doppler in Bistatic Radars: Combination of Stochastic Process and Spatial processing for Noise and Clutter Suppression, Journal of Data and Signal Processing, 2012.

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[37] **S.V.Shojaedini**, M.H.Miranbeygi, A Novel Method for Ultrasonic Nondestructive Testing: Using System Identification Approach, world Scientific and Engineering Society, 2006.

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Conference Publications:

[1] S. Aslanpour, **S.V.Shojaedini**, Analysis of Approaches Based on Deep Convolutional Neural Networks in Pedestrian Detection Intelligent Systems, 3rd International Conference on Electrical Engineering, September 2018.

[2] S. Ezatzadeh, M.R. Keyvanpour, **S.V.Shojaedini**, Designing a Fall Detection System by Using Support Vector Machine, Second National Congress on Medical Informatics and the Seventh Electronic Health Conference, July 2018.

[3] S. Mesdaghi, A. Mohamadpour, **S.V.Shojaedini**, M. Dosaranian Moghadam, Deep learning performance analysis to distinguish motor states in the technology of monitoring human activities with the help of wearable sensors, The 3rd International Conference on Technology in Electrical and Computer Engineering, May 2018.

[4] A. Moghdasi, **S.V.Shojaedini**, Behavior Analaysis of Convolutional Neural Network in Left Ventricle Disease Diagnosis by using Magnetic Resonance Images, The 3rd International Conference on Technology in Electrical and Computer Engineering, May 2018.

[5] M. Abdolahi, **S.V.Shojaedini,** A New Method Based on Rate of Change and Falling Angle for Detecting Human Fall in videos of Monitoring Cameras, The 5rd International Conference on Electrical Engineering and Computer with Emphasis on Native Knowledge, February 2018.

[6] M. Adeli, **S.V.Shojaedini,** Analysis of Solutions Based on Deep Learning and Classic Neural Networks in Character Recognition by Using Event Related Potentials, The 3rd National Conference of New Achievements in Electrical, Computer and Industrial Engineering, October 2017.

[7] A. Ahmadian, **S.V.Shojaedini,** A New Method for Spectral Prediction in Cognitive Radio System by Using a RBFNN, 2rd International Conference on Knowledge-Based Research in Computer Engineering and IT, September 2017.

[8] K. Parcham, **S.V.Shojaedini,** A New Method for Detecting Sperms in Microscopy Images by Using Combination of Contours and Morphological Processing, 2rd International Conference on Knowledge-Based Research in Computer Engineering and IT, September 2017.

[9] F. Bashiri, H. Rashidi Kanan, **S.V.Shojaedini,** A New Method for Estimation of the Age of Human by Using Image: SVM Classification Based on Zernik Moments, 5rd Joint Conference on Fuzzy systems and Artificial Intelligence, March 2017.

[10] H. Rahmani, **S.V.Shojaedini,** Analysis of Classic Strategies and Strategies Based on Soft Computing for Data Association in Target Tracking Process: Competitive Neural Networks and Stable Marriage Matching Algorithm, 9rd National Conference of Command, Control, Communications and Computers & Intelligence (C4I) , December 2016.

[11] M. Mehrabian, **S.V.Shojaedini,** A New Method for Extracting Time Difference of Arrival of Reflected Signals in Bistatic Passive Radars: Adaptive Estimation Based on Minimum Non-Negative Square Means, 9rd National Conference of Command, Control, Communications and Computers & Intelligence (C4I) , December 2016.

[12] M. Daneshvar, **S.V.Shojaedini,** A New Method for Noise Reduction in MRI images by using Contourlet Transform Based Median, 4rd International Conference on Applied Researches in Computer Engineering and Signal Processing, December 2016.

[13] A. Torkashvand, **S.V.Shojaedini,** A New Method for Root Detection in Minirhizotrone Images Based on Wavelet Transform, 4rd International Conference on Applied Researches on Agriculture Science, October 2016.

[14] A. Goldar, **S.V.Shojaedini,** A Novel Algorithm for Jointly Detecting TDOA/FDOA in Bistatic Radars Based on Higher Order Statistics, 4rd Iranian Conference on Engineering Electromagnetism, March 2016.

[15] A. Goldar, **S.V.Shojaedini,** Estimating Delay and Doppler in Radar by Using Time Sequence Model of Ambiguity Function Cells and Adaptive Processing , 3rd National Conference on Applied Research in Electrical, Mechanical and Mechatronics Engineering, Feb 2016.

[16] H. Lari, **S.V.Shojaedini,** A New Method for Camera Identification Based on Estimating of the Noise Pattern of Image by Using Lee Adaptive Filter, 3rd National Conference on Applied Research in Electrical, Mechanical and Mechatronics Engineering, Feb 2016.

[17] A. Goldar, **S.V.Shojaedini,** A New Method for Estimation of Delay and Doppler in Radars by Modeling Ambiguity Function Cells via a Neural Network , International Congress on Technology- Communication and Knowledge, Mashhad, Iran, Nov, 2015.

[18] S. Ghods, **S.V.Shojaedini**, Y. Maghsoodi, A Modified $H - \alpha$ Plane for the Extraction of Scattering Mechanisms from Dual Circular Polarization SAR Data, 3nd International Conference on Sensors and Models in Photogrammetric and Remote Sensing, Kish Island, Iran, Nov, 2015.

[19] H. Rahmanzadeh, **S.V.Shojaedini**, Evaluation and Comparison of Several Methods Existing for Processing of Minirhizotrone Data in Root Screening Procedure, 2nd Conference on New Finding in Environment and Agricultural Ecosystems , Tehran, Iran, September, 2015.

[20] H. Rahmanzadeh, **S.V.Shojaedini**, Performance Evaluation of Texture-Based features for Distinguishing Root and Background in Images Resulted from Minirhizotrone Technology , 2nd Conference on New Finding in Environment and Agricultural Ecosystems , Tehran, Iran, September, 2015.

[21] S. Ghods, **S.V.Shojaedini**, Y. Maghsoodi, A Novel Approach for $H - \alpha$ Decomposition of Compact Polorimetric SARUsing Radar-Sat2 Data, International Geoscience and Remote Sensing Symposium 2015 (IGARSS 2015), Milan, Italy, July, 2015.

[22] H.Rahmanzadeh**, S.V.Shojaedini,** Analysis and Comparing Automatic Methods for Calculating Specifications of Plant Roots In MiniRhizotrone Technology Based on Digital Image Processing, 3th National Conference on Sustainable Agriculture and Natural Resources, Tehran, Iran, June, 2015.

[23] R.Kasbgar**, S.V.Shojaedini,** Detecting Defects in Wood and Veneer by Using Classification of Surface Texture Features, 3th National Conference on Sustainable Agriculture and Natural Resources, Tehran, Iran, June, 2015.

[24] R.Kasbgar**, S.V.Shojaedini,** Automatic Non-Destructive Tests: A New Approach for Monitoring the Quality of Products in Wood Industries, 3th National Conference on Sustainable Agriculture and Natural Resources, Tehran, Iran, June, 2015.

[25] R.Kasbgar**, S.V.Shojaedini,** Determining Boundaries of Defects in Digital Images Captured from Wood Surfaces by Using Wavelet Transform, 3th National Conference on Sustainable Agriculture and Natural Resources, Tehran, Iran, June, 2015.

[26] R.Kasbgar**, S.V.Shojaedini,** Analysis and Evaluation of Digital Image Processing Methods for Defect Detection on Wood and Veneer surfaces for Quality Control of Wood Productions, 3th National Conference on Sustainable Agriculture and Natural Resources, Tehran, Iran, June, 2015.

[27] **S.V.Shojaedini,** R.Kasbgar and A.Vaseli, A New Method for Dermoscopy Image Enhancement for *Non-Invasive* Detection of Skin Cancers, 5th National Conference of Artificial Intelligence and Robotics, Tehran, Iran, April, 2015.

[28] Sara Ghods**, S.V.Shojaedini** and Y.Maghsudi, A New Method for Capability Evaluation of M-Kai decomposition in Interpretation of the Information of Compressed Simulated Data of Polarimetric Radars, 14th International Conference of Iranian Aerospace Society, Tehran, Iran, March, 2015.

[29] Sara Ghods**, S.V.Shojaedini** and Y.Maghsudi, Introducing New Models for Reconstruction of Entropic Parameters of Compressed RadarSat2 Polarimetric Radars in Band C, 14th International Conference of Iranian Aerospace Society, Tehran, Iran, March, 2015.

[30] **S.V.Shojaedini** and A.Parsiannejad, Feasibility Study on Wind Farm Renewable Energy Development in the South-West of Sabzevar Area, 4th Conference on Engineering Trends in Energy Conversation, Feb 2015.

[31] **S.V.Shojaedini** and A.Kermani, A Novel Method for Extracting Boundaries of Lumen and Intima in Intravascular US Images by GA Based Contour Optimization, Feb 2015.

[32] **S.V.Shojaedini**, R.Kabiri, A.Kermani and M.Freiduni, Improving the Performance of CFAR by Frequency Separated power Estimation for Detecting Ellint Signals, 8th Iranian Conference on C4I, Dec 2014.

[33] Sara Ghods**, S.V.Shojaedini**, A New Method for Classification of Polarimetric Radar Data, 3th Iranian Conference on Engineering Electromagnetics, Tehran, Iran, Dec, 2014.

[34] Sara Ghods**, S.V.Shojaedini**, A New Method for Decomposition of Compressed Data Obtained from RADARSAT2, 3th Iranian Conference on Engineering Electromagnetics, Tehran, Iran, Dec, 2014.

[35] Rahman Kabiri**, S.V.Shojaedini**, A New Method for Radar Transmitter Identification by Utilizing Phase Correction in Time-Frequency Features, 3th Iranian Conference on Engineering Electromagnetics, Tehran, Iran, Dec, 2014.

[36] **S.V.Shojaedini**, A New Method for Sperms Detection in Microscopic Images By Using Fuzzy –Based Decision, 11th Iranian Conference on Medical Physics, Tehran, Iran, Oct, 2014.

[37] A.Gholami Soltanmoradi, **S.V.Shojaedini**, A New Method for Characterization Skin Lesion in Dermoscopy Images: Optimizing Local Histograms by Using Un-Isotropic Diffusion, 11th Iranian Conference on Medical Physics, Tehran, Iran, Oct, 2014.

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[39] M.MirzaBagheri, **S.V.Shojaedini**, A New Method for Rejection of Impulse Noise in Medical Images by Using Combination of Spatial information and Hypothesis Test, Majlesi Electrical Engineering Conference, Isfahan, Iran, Aug, 2014.

[40] H. Bajlan, M. Pooyan, **S.V.Shojaedini**, A New Method for Image Steganalysis in Wavelet Domain, 6th National Conference on Information Technology and Knowledge, Shahrud, Iran, Summer 2014.

[41] H. Bajlan, M. Pooyan, **S.V.Shojaedini**, A New Method for Identification of Informative Sub-Bands in Steganography Images, 4[h] International Conference on Information Technology Management, Communication and Computer, Summer 2014.

[42] F.Moradi , M.R.Keyvanpour, **S.V.Shojaedini**, Classification and Evaluation of Machine Learning Thecniques in Quantitative Nanostructure-Activity Relationship (QNAR), 5th Iranian Conference on Bioinformatics,Tehran, Iran, May, 2014.

[43] R. Ozlattalab, M. Pooyan, **S.V.Shojaedini**, Object Recognition in Static Images by Using Novel Geometric Features, 8th National Symposium of Advances in Science and Technology (in Persian), Mashhad, Iran, 2014.

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[48] **S.V.Shojaedini**, A. Mahlujifar and M. Arj, A novel Method for Computing the Acoustic field Obtained from a Circular Array of Ultrasonic Sensors, 11th Iranian Conference on Electrical Engineering (in Persian), Shiraz, Iran, 2003.

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[52] M. Badiei**,** M.H. Miranbaygi and **S.V.Shojaedini**, Simulation of the Effect of Laser-diode on Prostate Tissue, Iranian Conference on Laser Applications in Biomedicine (in Persian), Tabriz, Iran, 2002.

[53] **S.V.Shojaedini**, Human Identification by Using Combination of Speech and Iris Features, Accepted as a Workshop in the Second International ISC Conference on Information Security and Cryptology (in Persian), 2002.

[54] **S.V.Shojaedini** and A. Mahlujifar, Computing the Acoustic field Obtained from a Circular Array of Ultrasonic Sensors by a New Surface Dividing Approach, 5th Iranian Conference on Medical Physics (in Persian), Tehran, Iran, 2002.

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[57] **S.V.Shojaedini**, Survey on Analog Cryptanalysis Methods of Speech Signal in Time-Frequency Domain, Workshop in the First International ISC Conference on Information Security and Cryptology (in Persian), 2001.