

In the name of God
Academic Curriculum Vitae

Dr. Ali Motie Nasrabadi (Ph.D.),
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Civil Status:

Name & Surname: Ali Motie Nasrabadi
Birth Date & Place: April. 1, 1972, Tehran, Iran
Marital: Married, one child

Education:

Ph.D., Biomedical Engineering (March 2004), " Quantitative and Qualitative Evaluation of Consciousness Variation and Depth of Hypnosis through Intelligent Processing of EEG signals "

Signal processing Division, Biomedical Engineering Department, Amirkabir University of Technology, Tehran, Iran.
(GPA: 17.74/20)

M.Sc. , Biomedical Engineering (September 1998), "Design and Implementation of 8-channel PC-Based Electroencephalograph "

Instrumentation Division, Biomedical Engineering Department, Amirkabir University of Technology, Tehran, Iran.
(GPA: 18.63/20)

B.Sc. , Electronic Engineering (February 1994), " Design and Implementation of Control of Satellite Dish to Getting Better Signal"

Electrical Engineering Department, Amirkabir University of Technology, Tehran, Iran.
(GPA: 18.16/20)

Areas of Interest

- Multi-channel EEG signal recording and analysis
- Chaotic signal processing
- Brain computer interface
- Modeling of Physiological Systems

- Neural network and fuzzy systems

Educational Awards

- First Rank in B.Sc.
Department of Electrical Engineering of Amirkabir University of Technology, with average score 18.16(out of 20)
- First Rank in M.Sc.
Department of Biomedical Engineering of Amirkabir University of Technology, with average score 18.63(out of 20)

Academic Activity

Publishing

Journal

۱. M. Miran beygi, M. Hosseinmardi, A. M. Nasrabadi, "Design and implementation of spectrophotometer, a prototype", Journal of Hakim, research center of health ministry, summer, (2002)
۲. A. M. Nasrabadi, S.M. R. Hashemi Golpayegani, M. A. Khalilzadeh, A. Sharifi, "Comparison between linear and nonlinear EEG signal processing for mental task classification", Journal of Amirkabir, A-55, (2003) pp. 592-600
۳. Siamak Rezaei, Kouhyar Tavakolian, Ali Moti Nasrabadi, S Kamal Setarehdan, "Different classification techniques considering brain computer interface applications", J. Neural Eng. 3 (2006), pp.139–144
۴. H. Omidvarnia, A. M. Nasrabadi, "A New Irregularity Criterion for Discrimination of Stochastic and Deterministic Time Series", Fractals, Vol. 16, No. 2 (2008) pp.129–140
۵. G. Salimi-Khorshidi, A. M. Nasrabadi, M. Hashemi Golpayegani, "Fusion of classic P300 detection methods' inferences in a framework of fuzzy labels", Artificial Intelligence in Medicine, Vol.44 (2008), pp.247—259
۶. A.M.Nasrabadi, G.Baghdadi, "Rehabilitation to Handicapped for Communication with Computer via Type of Letter by Eye Movement", Journal of Rehabilitation, Vol.9, No.3, (2009), pp.28-37
۷. S. Behbahani, A. M. Nasrabadi, "Applications of fuzzy similarity index method in processing of hypnosis", J. Biomedical Science and Engineering, Vol. 2 (2009), pp.359-362
۸. Z. Sed salehi, A.M. Nasrabadi, V. Abootalebi, "P300 detection using time-frequency Analysis and committee machine for BCI Application" Signal and data Processing , RCISP, vol.2, 2008.
۹. S. Rezaia, A.M. Nasrabadi, V. Abootalebi, A. Mohamadian, "Classification of Old/New effects during memory retrieval Using time-frequency feature: an Event-Related Potential study", Signal and data Processing, RCISP, vol.2, 2008.
۱۰. Hamed Ghomashchi, Ali Esteki, Ali Motie Nasrabadi, "Evaluation of Dynamical Structure of Postural Balance Control System during Quiet Standing in Normal and C.V.A. Subjects", Iranian Journal of Biomedical Engineering, Volume 2, Number 2 (Neuromuscular System Issue-Summer 2008).
۱۱. Golnaz Baghdadi, Ali Motie Nasrabadi, "An Investigation of Changes in Brain Wave Energy during Hypnosis with Respect to Normal EEG", Sleep and Hypnosis, 11:2, 2009
۱۲. Golnaz Baghdad, Ali Motie Nasrabadi "Effect of Hypnosis and Hypnotisability on Temporal Correlations of EEG Signals in Different Frequency Bands", European Journal of Clinical Hypnosis, Volume 9 – Issue 1, 2009.
۱۳. V. Doostmohammadi, D. Sardari, A. M. Nasrabadi, "Combined application of Monte Carlo method and neural networks to simulate qualitative prompt gamma neutron activation analysis", J Radioanal Nucl Chem, December 2009.
۱۴. N.talebi, A.M. Nasrabadi, "Applying Recurrence Plots for Identifying Memory Components in Single-Trial EEGs", Signal and data Processing , RCISP, vol.12,no.2, 2009.
۱۵. G. Baghdadi, A. Motie Nasrabadi, "Classifying Hypnotizable Groups Using EEG Weighted Regional Frequency", Scientia Iranica, Transactions D: Computer Science & Engineering and

Electrical Engineering, Vol. 17, No. 1, pp. 71-80, June 2010.

۱۶. Hamed Ghomashchi, Ali Esteki, Ali Motie Nasrabadi, Freidoun Nooshiravan "Investigation of damping of postural control using inverse pendulum with PID controller and delay feedback", Iranian Journal of Biomedical Engineering, Volume 4, Number 3, 2010
۱۷. Shima Alizadeh Zanjani, Amir Homayoun Jafari, Ali Motie Nasrabadi, "Approach to OGY Control Fuzzification of 2-link Rigid Robot Arm with Fixed-Points Distances Considering (Using Method Similar to Bellman-Ford Algorithm)", European Journal of Scientific Research, Vol.39 No.4 (2010), pp.469-476.
۱۸. Soroor Behbahani, Ali Motie Nasrabadi, "EEG signal processing for investigation relation between Hypnotizing and Left-Right and Posterior-Anterior lobe activities", Iranian Journal of Biomedical Engineering, Volume 4, Number 1, 2010, 64-53
۱۹. Hamed Ghomashchi, Ali Esteki, Julien Clinton Sprott, Ali Motie Nasrabadi, "Identification of Dynamic Patterns of Body sway during Quiet standing: is IT a Nonlinear Process?" International Journal of Bifurcation and Chaos Vol. 20, No. 4, 1269-1278 (2010).
۲۰. Esmaili, Somayeh Saraf, Nasrabadi, Ali Motie "Different initial conditions in fuzzy tumor model", J. Biomedical Science and Engineering, 2010, 3, 1002-1006.
۲۱. Elahe' Yargholi, Ali Motie Nasrabadi, "Chaotic features analysis of EEG signals during hallucination tasks of waterloo-stanford standard", J. Biomedical Science and Engineering, December 2010, Vol.3 No.12, 1175-1181.
۲۲. Pegah Tayaranian Hosseini, Reza Shalbaf, Ali Motie Nasrabadi, "Extracting a seizure intensity index from one-channel EEG signal using bispectral and detrended fluctuation analysis", J. Biomedical Science and Engineering, 2010, 3, 253-261
۲۳. HAMED GHOMASHCHI, ALI ESTEKI, ALI MOTIE NASRABADI, JULIEN CLINTON SPROTT, FARID BAHRPEIMA, "DYNAMIC PATTERNS OF POSTURAL FLUCTUATIONS DURING QUIET STANDING: A RECURRENCE QUANTIFICATION APPROACH", International Journal of Bifurcation and Chaos, Vol.21, No.4, 2011, 1163-1172.
۲۴. Mahdi Azarnoosh, Ali Motie Nasrabadi, Mohammad Reza Mohammadi, Mohammad Firoozabadi, "Investigation of mental fatigue through EEG signal processing based on nonlinear analysis: Symbolic dynamics", Chaos, Solitons & Fractals 44 (2011) 1054-1062
۲۵. Golnaz Baghdadi, Ali Motie Nasrabadi, "Comparison of different EEG features in estimation of hypnosis susceptibility level", Computers in Biology and Medicine 42 (2012) 590-597
۲۶. MAHDI AZARNOOSH, ALI MOTIE NASRABADI, MOHAMMAD REZA MOHAMMADI AND MOHAMMAD FIROOZABADI "Evaluating Nonlinear Variability of Mental Fatigue Behavioral Indices during Long-Term Attentive Task", Complexity, 2012 WILEY-BLACKWELL Periodicals, Inc., Y 1 DOI 10.1002/cplx.21391 Published online in Wiley Online Library
۲۷. G. Baghdadi and A. M. Nasrabadi, "EEG phase synchronization during hypnosis induction", Journal of Medical Engineering & Technology, 2012; Early Online: 1-8

Conference

۱. A. M. Nasrabadi, S. M. P. Firoozabadi, S.M. R. Hashemi Golpayegani, "Intelligent Classification of Concentric, Eccentric and Isometric contraction using SEMG of biceps muscle", Proceedings of The 8th Iranian Conference on Biomedical Engineering, Amirkabir university, Iran, pp. 25-32, 1997
۲. A.M. Nasrabadi, M.H. Moradi, "Compression of biological signal with DPCM", Proceedings of The 6th Iranian Conference on Electrical Engineering, Khajenasir university, Iran, pp. 255-259, 1998
۳. M. Barahimi, A. M. Nasrabadi, "A new design of apnea detection system", Proceedings of The 9th Iranian Conference on Biomedical Engineering, science and industrial university, Iran, pp. 540-544, 1999

۴. A.M. Nasrabadi, M. Hashemi Golpaygani, et al "Genetic Algorithm as the Selection Criteria of Superior EEG Channels in Classification of Mental Tasks", SCI2003, July ۲۷-۳۰, Orlando, Florida, USA, 2003
۵. A.M. Nasrabadi, M. Hashemi Golpaygani, K. Tavakolian, et al "Comparison between Linear and Nonlinear EEG Signal Processing during Different Mental Activities", SCI2003, July 27-30, Orlando, Florida, USA, 2003
۶. K. Tavakolian, A.M. Nasrabadi, et al "A Novel Hybrid Linear and Nonlinear Feature Vector for Discriminating Five Different Mental Tasks from Spontaneous EEG signals", SCI2003, July 27-30, Orlando, Florida, USA 2003
۷. K. Tavakolian, A.M. Nasrabadi, et al "Using Genetic Algorithm to Reduce Channels and Feature in EEG Mental Task Classification", 7th IASTED, July 14-16, Banff, Alberta, Canada, pp. 795-800, 2003
۸. K. Tavakolian, A.M. Nasrabadi , et al "Effects of Different Feature Vectors and Neural Network Topology on EEG Mental Tasks Classification ",IASTED International Conf. in Biomedical Eng., June 25-27 2003, Salzburg, Austria, pp. 39-43
۹. K. Tavakolian, A.M. Nasrabadi et al "Selecting Better EEG Channels for Classification of Mental Tasks", IEEE International Symposium on Circuits and Systems (ISCAS'2004), Vancouver, May 23-26, 2004, pp. 537-540
۱۰. Kouhyar Tavakolian, Siamak Rezaei, A. M. Nasrabadi "Classification of Different Mental Task using Neural Network" World Scientific and Engineering Academic and society, Issue 2, Volume 1, April 2004 , pp. 343-347
۱۱. S. Solhjoo, S.M.R. Hashemi Golpayegani, A. Motie Nasrabadi, 'Modeling of Parkinson's Disease and Parkinsonian Effects', Proceedings of The 11th Iranian Conference on Biomedical Engineering (ICBME2004), Tehran, Iran , 2004
۱۲. S. Solhjoo, S.M.R. Hashemi Golpayegani, A. Moti Nasrabadi, 'Modeling of Parkinson's Disease Considering Different Causes Producing Parkinsonian Effects', Proceedings of BIOSIGNAL 2004 International EURASIP Conference, pp. 396 – 398, 2004
۱۳. Athena Akrami, Soroosh Solhjoo, Ali Motie-Nasrabadi, Mohammad-Reza Hashemi-Golpayegani , "EEG-Based Mental Task Classification: Linear and Nonlinear Classification of Movement Imagery", Proceedings of the 2005 IEEE Engineering in Medicine and Biology 27th Annual Conference Shanghai, China, September 1-4, 2005
۱۴. Soroosh Solhjoo, Ali Motie Nasrabadi, Mohammad Reza Hashemi Golpayegani, "EEG-Based Mental Task Classification in Hypnotized and Normal Subjects", Proceedings of the 2005 IEEE Engineering in Medicine and Biology 27th Annual Conference Shanghai, China, September 1-4, 2005
۱۵. Iman Mohammad Rezazadeh, Mohammad Hassan Moradi, Ali Motie Nasrabadi, "Implementing of SPIHT and Sub-band Energy Compression (SEC) Method on Two-Dimensional ECG Compression: A Novel Approach", Proceedings of the 2005 IEEE Engineering in Medicine and Biology 27th Annual Conference Shanghai, China, September 1-4, 2005
۱۶. M. Ansarian, A.M. Nasrabadi, Shakoory, Sadeghzade "optimal stabilizer for power system using neural network structure", Proceedings of the 20th International power system conference, Tehran, Iran, 98-F-PSS-660, 2005
۱۷. A. Mahmoodzadeh, A.M. Nasrabadi, "Estimation of angle and distance in Array antenna signal using neural network", Proceedings of The 7th intelligent system conference, khaje nasir university, 2005
۱۸. S. Reisdana, A.R. Sherafat, A.M. Nasrabadi, " Spike wave detection in EEG signals using ICA", Proceedings of The 12th Iranian Conference on Biomedical Engineering (ICBME2005), Sahand university, Tabriz, Iran, pp. 219- 226, 2005.
۱۹. Soroosh Solhjoo, Ali Motie Nasrabadi, Mohammad Reza Hashemi Golpayegani, "Classification of Chaotic Signals Using Hmm Classifiers: EEG-Based Mental Task Classification", Proceedings of the EUSIPCO 2005 Conference, Turkey, Antalya, September 4-8, 2005
۲۰. S. Reisdana, A.R. Sherafat, A.M. Nasrabadi "Epileptic Wave detection on EEG signal Using ICA" 14th Iranian Conference on Electrical Engineering (ICEE), Amir Kabir University, Tehran, Iran, August 2006

۲۱. F Abdollahi, A Motie-Nasrabadi, "Combination of Frequency Bands in EEG for Feature Reduction in Mental Task Classification, Proceedings of the 2005 IEEE Engineering in Medicine and Biology 28th Annual Conference, Aug 30-Sept 3, 2006, New York, USA
۲۲. S. Raiesdana, A. M. Nasrabadi, "Automated Interictal Epilepsy Detection and Source Localization in EEG", 3rd international biomedical engineering conference CIBEC 06, January 3-4, 2006
۲۳. SH. Shobeihi, A.M. Nasrabadi, M.H. Moradi, "Classification of Individuals at Risk for Alcoholism using Non-matching ERPs based on Wavelet Statistic Features and Artificial Neural Network", 3rd international biomedical engineering conference CIBEC 06, January 3-4, 2006
۲۴. Fahimeh Mamashli, Ali Moti-Nasrabadi, SH. Shobeihi, "Mental Task Classification based on Entropy, Spectral Entropy and Mutual information", 3rd international biomedical engineering conference CIBEC 06, January 3-4, 2006
۲۵. G. Salimi Khorshidi, A. M. Nasrabadi, S.M.R. Hashemi Golpayegani, "Modifying the Classic Template Matching Technique Using a Fuzzy Multi Agent for an Accurate P300 Detection", 3rd International Conference on Biomedical Engineering, Kuala Lumpur, Malaysia, 11-14 December 2006
۲۶. G. Salimi Khorshidi, A. M. Nasrabadi, S.M.R. Hashemi Golpayegani, "Using Simple MLPs in Modular Architecture to Improve the Classification Accuracy; an ERP study", 3rd International Conference on Biomedical Engineering, Kuala Lumpur, Malaysia, 11-14 December 2006
۲۷. H. Ebrahimi Nasab, A. M. Nasrabadi, "A New Method of Cancer Treatment Based on Food Resource Competition ", 6th Iranian Medical Oncology, Shahid Beheshti University, Tehran, Iran, 24 Oct. 2006
۲۸. M Ghoshuni, A Nasrabadi, M Khalilzadeh, M Hashemi, "Phase space analysis of Event Related Potential during episodic memory retrieval", 29th Annual International Conference of the IEEE EMBS, Lyon, France, August 23-26, 2007
۲۹. Y. Zandi Mehran, A. M. Nasrabadi, M Hashemi, "An Investigation on Chaotic Approach to Detect Functional Gastrointestinal Disorders", 29th Annual International Conference of the IEEE EMBS, Lyon, France, August 23-26, 2007
۳۰. G. Baghdadi, A. M. Nasrabadi, "Controlling Blood Glucose Levels in Diabetics By Neural Network Predictor", 29th Annual International Conference of the IEEE EMBS, Lyon, France, August 23-26, 2007
۳۱. G Salimi Khorshidi, A. M. Nasrabadi, S.M.R. Hashemi Golpayegani, "Using Diagonal Recurrent Neural Network for an Accurate P300 Detection", 13th Iranian Conference on Biomedical Engineering, Sharif University, Tehran, Iran, 20-21 Feb. 2007
۳۲. F. Ebrahimi, M. Mikaili, A. M. Nasrabadi, "Sleep Spindle Detection Using Artificial Neural Network", 13th Iranian Conference on Biomedical Engineering, Sharif University, Tehran, Iran, 20-21 Feb. 2007
۳۳. SH. Shobeihi, A.M. Nasrabadi, M.H. Moradi, "Classification of Individual at Risk for Alcoholsim Based on ERPs with SVM and Statistical Wavelet Features", 13th Iranian Conference on Biomedical Engineering, Sharif University, Tehran, Iran, 20-21 Feb. 2007
۳۴. M. Azimian, A. M. Nasrabadi, "Using Neural Network for reduction of ECG Electrode", 13th Iranian Conference on Biomedical Engineering, Sharif University, Tehran, Iran, 20-21 Feb. 2007
۳۵. G. Baghdadi, A. M. Nasrabadi, "Control of Mouse Movement by Tracking of Eye Movement", 13th Iranian Conference on Biomedical Engineering, Sharif University, Tehran, Iran, 20-21 Feb. 2007
۳۶. H. Ebrahimi Nasab, A. M. Nasrabadi, "Mathematical Modeling of Tomur Dynamics Based on P, C, N: Simulation and Analysis", 13th Iranian Conference on Biomedical Engineering, Sharif University, Tehran, Iran, 20-21 Feb. 2007
۳۷. M. Parnian, M. Miranbeigi, K. Kargosha, A. M. Nasrabadi, R. Afhar, " Hemodialysis Modeling using Improved two-pool model", 13th Iranian Conference on Biomedical Engineering, Sharif University, Tehran, Iran, 20-21 Feb. 2007

۳۸. S. Raiesdana, M.H. Gholpayeghani,, “Biomimetic nanotechnology and nonlinear dynamics”, First International Conference on Quantum, Nano, and Micro Technologies, ICQNM '07. Guadeloupe, French Caribbean, Jan. 2007
۳۹. G. Salimi Khorshidi, A. Jafari, A. M. Nasrabadi, S.M.R. Hashemi Golpayegani, "Modifying the Classic Peak Picking Technique Using a Fuzzy Multi Agent for an Accurate P300 Detection" , 5th conference of the European society for fuzzy logic and technology (EUSFLAT 2007), Sept. 11-14, 2007, Ostrava, Czech republic.
۴۰. G. Salimi Khorshidi, A. Jafari, A. M. Nasrabadi, S.M.R. Hashemi Golpayegani, C. Lucas, “Toward a Solution for Genetic Algorithm Support Vector Machine Combination for an Accurate P300 Detection”, 5th conference of the European society for fuzzy logic and technology (EUSFLAT 2007), Sept. 11-14, 2007, Ostrava, Czech republic.
۴۱. G. Salimi Khorshidi, A. Jafari, A. Pourmorteza, A. M. Nasrabadi, S.M.R. Hashemi Golpayegani, “Using Supervised Fuzzy Clustering and CWT for Ventricular Late Potentials”, 5th conference of the European society for fuzzy logic and technology (EUSFLAT 2007), Sept. 11-14, 2007, Ostrava, Czech republic.
۴۲. Abdollahi, F. Setarehdan, S.K. Nasrabadi, A.M., “Locating Information Maximization Time in EEG Signals Recorded During Mental Tasks”, 5th International Symposium on Image and Signal Processing and Analysis, ISPA 2007, 27-29 Sept. 2007, Istanbul, Turkey.
۴۳. Z. Seyyedsalehi,A.M. Nasrabadi, V. Abootalebi, A. Mohamadian, “Automatic P300 detection using Quadratic B-Spline Wavelet for BCI Application”, first Iranian data mining conference, Amirkabir Uiversity, Tehran, Iran, 19-20 November 2007
۴۴. Y. Zandi Mehran, A. M. Nasrabadi, M. Hashemi Golpayegani,” Strange Attractor Differences of Gastric Myoelectrical activites in normal and functional Gastrointestinal disorder”, ICBME2008, Shahed university, Tehran, Iran, 12-13 February 2008
۴۵. M. Mokhtarim, A. M. Nasrabadi, H. Faryabi, “Direct Thermometry and its application to biofeedback”, ICBME2008, Shahed university, Tehran, Iran, 12-13 February 2008
۴۶. A. Taimori, A.M Nasrabadi, “An Automatic Method for human Eye Detection and Tracking Based on Artificial Neural Network and Feature Mathing”, ICBME2008, Shahed university, Tehran, Iran,12-13 February 2008
۴۷. Z. Seyyedsalehi,A.M. Nasrabadi, V. Abootalebi, “Hidden Markov Model in P300 Detection”, ICBME2008, Shahed university, Tehran, Iran,12-13 February 2008
۴۸. S. Nayeibi, M. H. Miranbeigi, A. M. Nasrabadi,” Wavelet based 2-D ECG compression by implementing of SPIHT algorithm and RL coding “ International Conference on Audio, Language and Image Processing, ICALIP2008, 7-9 July 2008, pp.1349 – 1353
۴۹. Y. Zandi Mehran, A. M. Nasrabadi, “Neural Network Application in Strange Attractor Investigation to Detect a FGD”, 4th International IEEE Conference "Intelligent Systems, September 6-8, 2008,Golden Sands resort, Varna, Bulgaria.
۵۰. Y. Zandi Mehran, A. M. Nasrabadi, A. H. Jafari, “Fuzzy Neural Network for Detecting Nonlinear Determinism in Gastric Electrical Activity: Fractal Dimension Approach”, ”, 4th International IEEE Conference "Intelligent Systems, September 6-8, 2008,Golden Sands resort, Varna, Bulgaria.
۵۱. Hamed Bahmani, Ali Motie Nasrabadi, and Mohammad Reza Hashemi Gholpayeghani, “Nonlinear Data Fusion in Saliency-Based Visual Attention”, 4th International IEEE Conference "Intelligent Systems, September 6-8, 2008, Golden Sands resort, Varna, Bulgaria.
۵۲. H. Bahmani, A. M. Nasrabadi and M. R. Hashemi Gholpayeghani, “using weighted saliency map in visual attention for object recognition”, 5th. European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS 2008), June 30, 2008, Venice, Italy.
۵۳. Z. Seyyedsalehi,A.M. Nasrabadi, V. Abootalebi,” Committee Machines and Quadratic B-spline Wavelet for the P300 Speller Paradigm”, International Conference on Computer Systems and Applications, AICCSA 2008. IEEE/ACS, Doha, Qatar, March 31-April 4 2008, pp. 866-869
۵۴. S. Nayeibi, M. Miranbeigi, A.M. Nasrabadi, “An Improved Method for 2-D ECG Compression Based on SPIHT Algorithm “, 30th Annual International IEEE EMBS Conference, August 20-24, 2008, Vancouver, British Columbia, Canada

۵۵. S. Raiesdana, Hashemi M. Hashemi Golpayegani, A. M. Nasrabadi, "Complexity Evolution in Epileptic Seizure", 30th Annual International IEEE EMBS Conference, August 20-24, 2008, Vancouver, British Columbia, Canada
۵۶. S. Nayeibi, M. Miranbeigi, A.M. Nasrabadi, "A combined algorithm for ECG Compression based on SPIHT and RL Coding", 16th Iranian Conference on Electrical Engineering, Tarbiat Modares University, Tehran, Iran, May 13-15 2008
۵۷. S.A.M. Javadian, A. M. Nasrabadi, "precise determination of the fault location and type in distribution network with dispersed generation sources using MLP neural networks", 23rd International Power System Conference, PSC 2008
۵۸. S. Rezaia, A. M. Nasrabadi, V. Abootalebi, "Classification of Old/New effects during memory retrieval Using Committee Machine: an Event-Related Potential study", International Conference on Biomedical Engineering, Cairo, 18-20 Dec. 2008 pp.1 – 4
۵۹. A.K. Tafreshi, A.M. Nasrabadi, A.H. Omidvarnia, "Epileptic Seizure Detection Using Empirical Mode Decomposition", International Symposium on Signal Processing and Information Technology IEEE, 2008, ISSPIT 2008, , 16-19 Dec. 2008, pp. 238 – 242
۶۰. A.K. Tafreshi, A.M. Nasrabadi, A.H. Omidvarnia, "Empirical Mode Decomposition In Epileptic Seizure Prediction", International Symposium on Signal Processing and Information Technology IEEE, 2008, ISSPIT 2008, , 16-19 Dec. 2008, pp 275-280.
۶۱. H. Hamtaei, A.M. Nasrabadi, M.R.H. Golpayegani, "Image-based recognition of Alphabetic Sign Language using Neural Network and Support Vector Machine", 5th Iranian Conference on Machine Vision and Image Processing Faculty of Electrical and Computer Engineering University of Tabriz November 4-6, 2008
۶۲. M. Vaghefi, A.M. Nasrabadi, M.H. Moradi, "Feature Extraction from EEG Signal using Constrained Independent Component Analysis", 15th Iranian Conference on Biomedical Engineering, Islamic Azad University of Mashhad, 2008, pp.114-121
۶۳. M. Vaghefi, A.M. Nasrabadi, M.H. Moradi, "Preprocessing of EEG Signal using Constrained Independent Component Analysis", 15th Iranian Conference on Biomedical Engineering, Islamic Azad University of Mashhad, 2008, pp.175-180
۶۴. A. Janghorbani, M.B. Khodabakhshi, A.M.Nasrabadi, "Design and Simulation of ECG Signal Monitoring Telemedicine System, Using Mobile Phone", 15th Iranian Conference on Biomedical Engineering, Islamic Azad University of Mashhad, 2008, pp.218-224
۶۵. S. Rezaia, A.M. Nasrabadi, V. Abootalebi, M. Ghoshuni, "Classification of the Old/New effects in Memory Retrieval Process using Committee Machines: Investigating the Brain Event Related Potential", 15th Iranian Conference on Biomedical Engineering, Islamic Azad University of Mashhad, 2008, pp. 188-193
۶۶. Z. Seidsalehi, A.M. Nasrabadi, V. Abootalebi, "P300 Component Detection in Brain Computer Interface using Modular learning Strategy", 15th Iranian Conference on Biomedical Engineering, Islamic Azad University of Mashhad, 2008, pp.240-245
۶۷. S. Rezaia, S.Z. Seidsalehi A.M. Nasrabadi, V. Abootalebi, M. Ghoshuni, "Feature Extraction from Event Related Potential using Wavelet Transform and t-test", 15th Iranian Conference on Biomedical Engineering, Islamic Azad University of Mashhad, 2008, pp. 259-264
۶۸. H. Ebrahimiinasab, A.M. Nasrabadi, "A new Mathematical Model of Tumor Growth and Immune System Interaction in accord with the Effect of the Regulatory Mechanism of the Immune System (Regulatory T Cells)", 15th Iranian Conference on Biomedical Engineering, Islamic Azad University of Mashhad, 2008, pp.363-371
۶۹. H. Hamtaei, A.M. Nasrabadi, M.R.H. Golpayegani, "Design and Collection of the Stereo Image Data from Farsi Sign Language Alphabet", 15th Iranian Conference on Biomedical Engineering, Islamic Azad University of Mashhad, 2008, pp. 417-424
۷۰. A.K. Tafreshi, A.M. Nasrabadi, A.H. Omidvarnia, "Investigating Epileptic Seizure Start Time in EEG signals using Empirical Mode Decomposition and Correlation Dimensions",

- 15th Iranian Conference on Biomedical Engineering, Islamic Azad University of Mashhad, 2008, pp. 411-416
- ✓١. G. Baghdadi, A.M. Nasrabadi, "Investigation of Two Fuzzy and Fuzzy-Chaotic Model in Blood Glucose Level Prediction in Diabetics", Second Joint Congress on Fuzzy and Intelligent Systems, 8th Iranian Conference on Fuzzy System and 9th Conference of Intelligence System, 28-30 Oct. 2008
 - ✓٢. Z. Armanfard, H. Bahmani, A.M. Nasrabadi, "A Novel Feature Fusion Technique In Saliency-Based Visual Attention", International Conference on Advances in Computational Tools for Engineering Applications, ACTEA '09, 15-17 July 2009 pp.230 – 233
 - ✓٣. S. Sabouri, A. M. Nasrabadi, A. Teimouri, "A New Technique in Vehicle Movement Tracking In Video Images Using Dense Optical Flow and Neural Network", 14rd Annual National Conference of Computer Society of Iran, 2009
 - ✓٤. S.A.M. Javadian, A.M. Nasrabadi, M.R. Haghifam, J. Rezvantab, "Determining Fault's Type and Accurate Location In Distribution Systems With DG Using MLP Neural Networks", Clean Electrical Power, 2009 International Conference, 9-11 June 2009, pp. 284 – 289
 - ✓٥. G. Baghdadi, A.M. Nasrabadi, "Final depth of hypnosis trance estimation using fractal feature and EMG algorithm", 17th ICEE, Iran university of science and technology, pp. 223-229, 2009.
 - ✓٦. E. Armin, A. M. Nasrabadi, "Feature Optimization for BCI Application using Genetic Algorithm", 17th ICEE, Iran university of science and technology, pp. 205-210, 2009.
 - ✓٧. Shima Alizadeh Zanjani, Amir Homayoun Jafari, Ali Motie Nasrabadi, "Intelligent Fuzzy chaotic control of a two-link Rigid Robot Arm", 2009 Third UKSim European Symposium on Computer Modeling and Simulation, DOI 10.1109/EMS.2009.22.
 - ✓٨. Esmaili, Somayeh Saraf, Nasrabadi, Ali Motie , "Uncertainty Analysis in Tumor Model with Fuzzy Parameters " , International Conference on Computational Intelligence and Software Engineering, 2009. CiSE 2009.
 - ✓٩. Soroor Behbahani, Ali Motie Nasrabadi, "Application of Fuzzy Similarity Index Method in Hypnosis Analysis", GCC Conference & Exhibition, 2009 5th IEEE
 - ^١٠. Shima Alizadeh Zanjani, Amir Homayoun Jafari, Ali Motie Nasrabadi, "OGY control fuzzification of tow-link rigid robot arm ",Asia-Pacific Conference on Computational Intelligence and Industrial Applications, 2009. PACIIA 2009.
 - ^١١. Ali Motie Nasrabadi, Neda Afzalian, Elahe' Yargholi, " Potentials Using Biologically Inspired Networks", 18th ICEE, Proceeding of ICEE2010, Isfahan University of Technology, pp. 7-12, 11-13 May 2010.
 - ^١٢. S. Saraf Esmaceli, A. M. Nasrabadi, "Investigation of interaction between immune system and tumor cell with fuzzy differential equation", 18th ICEE, Proceeding of ICEE2010, Isfahan University of Technology, pp. 3579-3585, 11-13 May 2010
 - ^١٣. G. Baghdadi, A.M. Nasrabadi, "Analysis of EEG microstate in High and Low Hypnotizability", 18th ICEE, Proceeding of ICEE2010, Isfahan University of Technology, pp. 3543-3548, 11-13 May 2010.
 - ^١٤. N. Talebi, A. M. Nasrabadi, "Recurrence plots for identifying memory components in single-trial EEGs", BI'10 Proceedings of the 2010 international conference on Brain informatics, pp. 124–132, 2010.
 - ^١٥. S Moharreri, S Parvaneh, N Jafarnia Dabanloo, A M Nasrabadi, "Utilizing Occurrence Sequence of Heart Rate's Phase Space Points in order to Discriminate Heart Arrhythmia" Proceedings of the 17th Iranian Conference of Biomedical Engineering (ICBME2010), 3-4 November 2010

۹۶. Elahe Yargholi, Ali Motie Nasrabadi, "Chaotic features analysis of EEG signals during hallucination tasks of waterloo-stanford standard" 17th Iranian Conference of Biomedical Engineering (ICBME2010), 3-4 November 2010
۹۷. N Jafarnia Dabanloo, S Moharreri, S Parvaneh, AM Nasrabadi, "New Representation of Heart Rate and Evaluation of Extracted Geometric Features", IEEE CONFERENCES, Computing in Cardiology, 26-29 Sept 2010
۹۸. Soroor Behbahani, Ali Motie Nasrabadi, "Hypnosis Analysis by Means Of Similarity Index Method "17th Iranian Conference of Biomedical Engineering (ICBME2010), 3-4 November 2010
۹۹. Mahdi Azarnoosh, Ali Motie Nasrabadi, Mohammad Reza Mohammadi, Seyyed Mohammad P. Firoozabadi, "Evaluating Variability of Frequency Features of EEG Signals During Mental Fatigue", 17th Iranian Conference of Biomedical Engineering (ICBME2010), 3-4 November 2010
۱۰۰. N Jafarnia Dabanloo, S Moharreri, S Parvaneh, AM Nasrabadi, "Application of Novel Mapping for Heart Rate Phase Space and Its Role in Cardiac Arrhythmia Diagnosis", IEEE CONFERENCES, Computing in Cardiology, 26-29 Sept 2010
۱۰۱. Pedram Nemati, Mohammad Imani, Ehsan Marzban-Rad, Ali Motie Nasrabadi "Bilateral Prediction of Formulation Parameters and Drug Release Profiles in Porous Monolithic Devices", 17th Iranian Conference of Biomedical Engineering (ICBME2010), 3-4 November 2010
۱۰۲. A. H. Mehrnam, A. Motei Nasrabadi, A. Mohammadian, Sh. Torabi, "Concealed Face Recognition Analysis Based on Recurrence Plots", 18th Iranian Conference on Biomedical Engineering, 14-16 December 2011, Tehran, Iran.
۱۰۳. Seyyed Mahmood Reza Miri, Ali Motie Nasrabadi, "A New Seizure Prediction Method Based on Return Map", 18th Iranian Conference on Biomedical Engineering, 14-16 December 2011, Tehran, Iran.
۱۰۴. Allahverdy, Ali Moti Nasrabadi, Mohammad Reza Mohammadi, "Detecting ADHD Children Using Symbolic Dynamic of Nonlinear Features of EEG", 19th Iranian Conference of Electrical Engineering (ICEE), 2011
۱۰۵. S Moharreri, S Parvaneh, N Jafarnia Dabanloo, A M Nasrabadi, "How to Interpret Psychology from Heart Rate Variability?", 1st Middle East Conference on Biomedical Engineering (MECBME), 2011 21-24 Feb. 2011

Teaching experience

Undergraduate:

- Circuit and measurement laboratory
- Electronic 1, 2, 3
- Pulse technique
- Electrical safety
- Circuit theory 1
- Fundamental of microprocessor system
- Electronic 2, shahed university
- Supervisor of over 60 different title of Bsc. Thesis about
 - Design and implementation of
 - Bioelectric amplifier (ECG, EEG, EMG,...)
 - ECG transformation with
 - Phone line
 - Computer network (TCP/IP)

- Electrical part of photometer and spectrophotometer
- Ultrasonic Doppler fetal heart detector
- A/D data acquisition
- GFCI and LIM for electrical safety
- Detection of eye movement
- Deaf aid vehicle
- Audiometer
- ECG simulator
- Fat analyzer
- Biofeedback
 - Heart rate
 - GSR
 - Alpha rhythm of EEG
- Spirometer
- Data compression with DPCM, FAN, AZTEC, PCA, FFT, Wavelet,
- Software design for ECG arrhythmia detection
- Word recognition with HMM for moving of mouse cursor with voice
- EEG signal processing for mental activities classification
 - Investigation of classifiers
 - Investigation of features
 - Investigation of features reduction

Graduate:

- Introduction to artificial neural network,
 - Shahed university, electrical engineering department, 2004-2005
 - Islamic Azad University, research and science branch, 2005
- Introduction to biomedical modeling
 - Shahed university, electrical engineering department, 2004-2005
- Chaos Theory and Application
 - Shahed university, electrical engineering department, 2006-2007
- **Msc thesis Supervisor**
 - Zohre Seyyedsalehi, "P300 Detection using Hidden Markov Model", Shahed University, February 2008
 - Hossein Ebrahimi Nasabm "Mathematical Modeling of Tumor Growth and Immune Response to Tumor Invasion", Shahed University, February 2008.
 - Mahsa Vaghefi, "Cognitive Components Processing of Brain Signals Using Constrained Independent Component Analysis", Shahed University, June 2008.
 - Neda Afzalian, "EEG signal Processing using Chaotic Classifiers", Shahed University, September 2008.
 - Shadi Farzaneh, "Baroreflex modelling in Minimal Cardiovascular System and justification of CVS chaos behavior based on time delay variations in baroreflex feedback", Shahed University, September 2008.
 - Azade Sadooghi, "Using new models in baroreflex modeling during Orthostatic Test", Shahed University, September 2008
 - Somayyeh Nayeibi, "Modifying of SPIHT algorithm in 2-D ECG compression", Co-Supervisor, Tarbait Modares, March 2007.
 - Shobeir Shobeihi, "Classification of Individuals at Risk for Alcoholism using Non-matching ERPs", Islamic Azad University, research and science branch, September 2006.
 - Yasaman Zandi Mehran, "Detection of Functional Gastrointestinal Disorders using Nonlinear processing of the Gastric Migrating Myoelectrical Complex signals", Islamic Azad University, research and science branch, September 2007.

- Elnaz Armin, “Improving mental task classification in imagination of right and left hand movement using Non-linear Features & Genetic Algorithm” , Islamic Azad University, research and science branch , August 2007.
 - Hamed Bahmani,” Context-Based Visual Attention for Object Recognition”, Islamic Azad University, research and science branch, September 2008.
 - Hasan Hamtai, “Intelligent recognition of Farsi sign-language; implementation and comparison of methods”, Islamic Azad University, research and science branch, September 2008.
- **Msc thesis advisor**
- Soroosh solhjoo, "Comparison between HMM and Neural Classifiers in Mental Task Classification", Amirkabir university of technology, biomedical engineering department, 2005
 - Parham Khade alhoseini, "comparison between Chaotic and wavelet EEG signal processing for mental task classification", Amirkabir University of technology, biomedical engineering department, 2005
 - Mohhamadreza salami khorshidi, "Investigating and Comparing Different Single-Trial Methods in Extracting ERPs from EEG Signal", Amirkabir University of technology, biomedical engineering department, 2005
 - Somaie Reisdana," epileptic event Detection from EEG signal using ICA method", Tarbiat Modares University, Electrical engineering department, 2005
 - Iman Rezazade, "Implementing of SPIHT and Sub-band Energy Compression (SEC) Method on Two-Dimensional ECG Compression", Islamic Azad University, research and science branch, 2005
 -
- **Teaching Assistant**
Amirkabir University of technology,
- Neuromuscular junction control, Fall Quarter 2003
 - Chaos theory and it's application on biomedical engineering, Spring Quarter 2003
 - Systemic approach and cybernetic, spring Quarter 2004

Technical Activity

- Design and Implementation of Photometer, RCSTIM (Imam Hospital), Research Center of Tehran University Medical School, The ministry of Industrial, 2003- 2005
- Design and Implementation of hypnotizablity evaluator system, RCISP, 2004-2005
- Researcher in RCISP on EEG Signal Processing, 2001-2006
- Researcher in RCSTIM, Laser and Optical Group, 1998-2004
- Researcher in design and implementation of spectrophotometer team, Research Center of Tehran University Medical School, 1999-2001

- Designing and Manufacturing Optical Eye-Controlling Mouse and Keyboard, Shahed University, 2008-2009