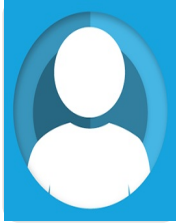




Amirkabir University of Technology
(Tehran Polytechnic)



MOHAMMADREZA
HASHEMIGOLPAYEGANY

Professor
Department of Biomedical Engineering
(Emeritus)

Email:

mrhashemigolpayegani@aut.ac.ir

Phone:

h-index (Scopus):

15

Citations (Scopus):

1114

Supervised MSc Theses

#	Thesis title	By	Date
1	Evaluation of the Risk factors of the Environment on the growth of the Cancer tumor base on a chaotic neural network model	Mohammad Javad Khouhak & Mohammadreza Hashemigolpayegany	August 2021
2	Modelling the Center of Center of Pressure dynamics of a standing person while performing dual-task (postural control and cognitive task)	Fatemeh Delavari & Mohammadreza Hashemigolpayegany Other Supervisor: Mohammadali Ahmadi Pajouh	October 2018
3	individual computational chaotic cancer model of tumor growth based on effects of environmental factors	Faeze Khatibi & Mohammadreza Hashemigolpayegany	June 2016
4	NEW EEG SIGNAL PROCCESING METHOD FOR NONLINEAR ANALYSIS OF ANESTHESIA DYNAMIC	Payman Gifani & Mohammadreza Hashemigolpayegany	April 2007
5	INTELLIGENT CHAOTIC CONTROL OF AN INVERSE TWO-LINK RIGID MANIPULATOR IN HIERARCHICAL STRUCTURE	Mahtab Nazari & Mohammadreza Hashemigolpayegany	March 2007
6	A STUDY OF TENILE CYCLIC LOADING ON THE MORPHOLOGY OF CULTURED ENDOTHELIAL CELLS WITH APPLICATION OF FRACTAL GEOMETRY	Samira Amini & Mohammadreza Hashemigolpayegany Other Supervisor: Mohammad Tafazzoli-Shadpour	February 2007
7	USING NEURAL NETWORK TECHNIQUES TO DETECT EEGS COGNITIVE COMPONENTS	Gholamreza Salimi Khorshidi & Mohammadreza Hashemigolpayegany	September 2006

Portal Records

- 1 Fatemeh Babazadeh, Mohammadali Ahmadi Pajouh, Mohammadreza Hashemigolpayegany, "A novel stretching and folding characterization method based on geometrical and physiological traits of chaotic and intermittent tracking signals", *Scientia Iranica*, June 2023 Vol. 0, Num. 0, Page 1-41, June 2023,
- 2 Fatemeh Babazadeh, Mohammadali Ahmadi Pajouh, Mohammadreza Hashemigolpayegany, "A Novel Approach to the Characterization of Stretching and Folding in Pursuit Tracking with Chaotic and Intermittent Behaviors", *INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS*, September 2022 Vol. 33, Num. 4, Page 1-21, September 2022,
- 3 Nazanin Zandi Mehran, Sajad Jafari, Mohammadreza Hashemigolpayegany, Hamidreza Namazi, "The Effect of Noise and Nonlinear Noise Reduction Methods on The Fractal Dimension of Chaotic Time Series", *FRACTALS-COMPLEX GEOMETRY PATTERNS AND SCALING IN NATURE AND SOCIETY*, November 2021 Vol. 29, Num. 8, Page 1-16, November 2021,
- 4 Ali Jafari, Iqtadar Hussain, Fahimeh Nazarimehr, Mohammadreza Hashemigolpayegany, Sajad Jafari, "A simple guide to plot a proper bifurcation diagram", *INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS*, January 2021 Vol. 31, Num. 1, Page 1-11, January 2021,
- 5 Nazanin Zandi Mehran, Sajad Jafari, Mohammadreza Hashemigolpayegany, "Signal Separation In An Aggregation Of Chaotic Signals", *CHAOS SOLITONS & FRACTALS*, September 2020 Vol. 138, Num. 1, Page 1-8, September 2020,
- 6 Mohammadreza Hashemigolpayegany, Zahra Sadat Hosseini, "Esophageal epithelium modeling based on globally coupled map: an approach toward precancerous lesion diagnosis", *MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING*, April 2020 Vol. 58, Num. 6, Page 1297-1308, April 2020,
- 7 Nazanin Zandi Mehran, Sajad Jafari, Mohammadreza Hashemigolpayegany, Fahimeh Nazarimehr, Matjaž Perc, "Different Synaptic Connections Evoke Different Firing Patterns in Neurons Subject to an Electromagnetic Field", *NONLINEAR DYNAMICS*, March 2020 Vol. 100, Num. 1, Page 1809-1824, March 2020,
- 8 Nazanin Zandi Mehran, Shirin Panahi, Zahra Sadat Hosseini, Mohammadreza Hashemigolpayegany, Sajad Jafari, "One dimensional map-based neuron model: a phase space interpretation", *CHAOS SOLITONS & FRACTALS*, December 2019 Vol. 132, Num. 109558, Page 1-14, December 2019,
- 9 Mahdi Yousefi Azar Khanian, Mohammadreza Hashemigolpayegany, Mostafa Rostami, "A new multi-attractor model for the human posture stability system aimed to follow self-organized dynamics", *BIOCYBERNETICS AND BIOMEDICAL ENGINEERING*, May 2019 Vol. 0, Num. 0, Page 1-17, May 2019,
- 10 Mohammadreza Hashemigolpayegany, Zahra Sadat Hosseini, "Esophageal Epithelium Modeling based on Globally Coupled Maps with the approach of Precancerous Lesions Diagnosis", *Iranian Journal of Biomedical Engineering*, April 2019 Vol. 13, Num. 1, Page 69-84, April 2019,
- 11 Mahdi Yousefi Azar Khanian, Mohammadreza Hashemigolpayegany, Mostafa Rostami, "A New Multi-Attractor Model of Human Posture Stability to Follow Self- Organized Dynamics", *Iranian Journal of Biomedical Engineering*, April 2019 Vol. 13, Num. 1, Page 55-68, April 2019,
- 12 Zahra Sadat Hosseini, Mohammadreza Hashemigolpayegany, Masoud Sotoudeh, Reza Malekzadeh, "A fractal based approach to evaluate the progression of esophageal squamous cell dysplasia", *BIOMEDICAL SIGNAL PROCESSING AND CONTROL*, November 2018 Vol. 48, Num. 1, Page 273-289, November 2018,
- 13 Fahimeh Nazarimehr, Aboozar Ghaffari, Sajad Jafari, Mohammadreza Hashemigolpayegany, "Sparse Recovery and Dictionary Learning to Identify the Nonlinear Dynamical Systems: One Step Toward Finding Bifurcation Points in Real Systems", *INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS*, November 2018 Vol. 29, Num. 3, Page 1-17, November 2018,
- 14 Fahimeh Nazarimehr, Sajad Jafari, Mohammadreza Hashemigolpayegany, Matjaž Perc, Julien C. Sprott, "Predicting tipping points of dynamical systems during a period-doubling route to chaos", *CHAOS*, July 2018 Vol. 28, Num. 7, Page 1-10, July 2018,

- 15 Fahimeh Nazarimehr, Sajad Jafari, Mohammadreza Hashemigolpayegany, Louis H. Kauffman, "Investigation of bifurcations in the process equation", INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS, October 2017 Vol. 27, Num. 13, Page 1-18, October 2017,
- 16 Fahimeh Nazarimehr, Sajad Jafari, Mohammadreza Hashemigolpayegany, Julien Clinton Sprott, "Can Lyapunov exponent predict critical transitions in biological systems?", NONLINEAR DYNAMICS, April 2017 Vol. 88, Num. 2, Page 1493-1500, April 2017,
- 17 Fahimeh Nazarimehr, Sajad Jafari, Mohammadreza Hashemigolpayegany, Julien Clinton Sprott, "Categorizing chaotic flows from the viewpoint of fixed points and perpetual points", INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS, February 2017 Vol. 27, Num. 2, Page 1-8, February 2017,
- 18 Ghasem Sadeghi Bajestani, Mohammadreza Hashemigolpayegany, Ali Sheikhani, Farah Ashrafizade, "Poincaré section analysis of the electroencephalogram in autism spectrum disorder using complement plots", KYBERNETES, February 2017 Vol. 46, Num. 2, Page 364-382, February 2017,
- 19 Sajad Jafari, Viet-Thanh Pham, Mohammadreza Hashemigolpayegany, Motahareh Moghtadaei, Sifeu Takougang Kingni, "The relationship between chaotic maps and some chaotic systems with hidden attractors", INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS, December 2016 Vol. 26, Num. 13, Page 1-8, December 2016,
- 20 Fatemeh Hadaeghi, Mohammadreza Hashemigolpayegany, Sajad Jafari, Greg Murray, "Towards a complex system understanding of bipolar disorder: A chaotic model of abnormal circadian activity rhythms in euthymic bipolar disorder", AUSTRALIAN AND NEW ZEALAND JOURNAL OF PSYCHIATRY, May 2016 Vol. 0, Num. 0, Page 1-10, May 2016,
- 21 Fatemeh Hadaeghi, Mohammadreza Hashemigolpayegany, Laura Gardini, "A non-autonomous system leading to cyclic chaotic sets to model physiological rhythms", APPLIED MATHEMATICS AND COMPUTATION, April 2016 Vol. 281, Num. 1, Page 343-355, April 2016,
- 22 Mahsa Vaghefi, Ali Motie Nasrabadi, Mohammadreza Hashemigolpayegany, Mohammad Reza Mohammadi, Shahriar Gharibzadeh, "Identification of Chaos-Periodic Transitions, Band Merging, and Internal Crisis Using Wavelet-DFA Method", INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS, April 2016 Vol. 26, Num. 4, Page 1-12, April 2016,
- 23 Ghasem Sadeghi Bajestani, Ali Sheikhani, Mohammadreza Hashemigolpayegany, Farah Ashrafzadehi, Paria Hebrani, "CYBERNETIC APPROACH IN IDENTIFICATION OF BRAIN PATTERN VARIATIONS IN AUTISM SPECTRUM DISORDER", BIOMEDICAL ENGINEERING-APPLICATIONS BASIS COMMUNICATIONS, February 2016 Vol. 28, Num. 1, Page 1-16, February 2016,
- 24 Sajad Jafari, Julien Clinton Sprott, Mohammadreza Hashemigolpayegany, "Layla and Majnun: A Complex Love Story", NONLINEAR DYNAMICS, January 2016 Vol. 83, Num. 0, Page 615-622, January 2016,
- 25 Sajad Jafari, Fahimeh Nazarimehr, Julien Clinton Sprott, Mohammadreza Hashemigolpayegany, "Limitation of Perpetual Points for confirming conservation in dynamical systems", INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS, December 2015 Vol. 25, Num. 13, Page 1-6, December 2015,
- 26 Maryam Beigzadeh, Mohammadreza Hashemigolpayegany, "A cellular automaton based model for visual perception based on anatomical connections", SCIENTIA IRANICA TRANSACTION D-COMPUTER SCIENCE & ENGINEERING AND ELECTRICAL ENGINEERING, July 2015 Vol. 22, Num. 6, Page 2492-2504, July 2015,
- 27 Fatemeh Hadaeghi, Mohammadreza Hashemigolpayegany, Greg Murray, "Towards a complex system understanding of bipolar disorder: A map based model of a complex winnerless competition", JOURNAL OF THEORETICAL BIOLOGY, July 2015 Vol. 376, Num. 0, Page 74-81, July 2015,
- 28 Yasser Shekofteh, Sajad Jafari, Julien Clinton Sprott, Mohammadreza Hashemigolpayegany, Farshad Almasganj, "A Gaussian Mixture Model Based Cost Function for Parameter Estimation of Chaotic Biological Systems", COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, February 2015 Vol. 20, Num. 2, Page 469-481, February 2015,
- 29 Mahsa Vaghefi, Ali Motie Nasrabadi, Mohammadreza Hashemigolpayegany, Mohammad-Reza Mohammadi, Shahriar Gharibzadeh, "Spirituality and brain waves.", JOURNAL OF MEDICAL ENGINEERING & TECHNOLOGY, January 2015 Vol. 39, Num. 2, Page 153-158, January 2015,
- 30 Golnaz Baghdadi, Sajad Jafari, Julien Clinton Sprott, Farzad Towhidkhah, Mohammadreza Hashemigolpayegany, "A Chaotic Model of Sustaining Attention Problem in Attention Deficit Disorder", COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, January 2015 Vol. 20, Num. 1, Page 174-185, January 2015,

- 31 Viet-Thanh Pham, Sajad Jafari, Cristos Volos, Xiong Wang, Mohammadreza Hashemigolpayegany, "Is that really hidden? The presence of complex fixed-points in chaotic flows with no equilibria", INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS, December 2014 Vol. 24, Num. 11, Page 1-6, December 2014,
- 32 Sajad Jafari, Julien Clinton Sprott, Viet-Thanh Pham, Mohammadreza Hashemigolpayegany, Amir Homayoun Jafari, "A New Cost Function for Parameter Estimation of Chaotic Systems Using Return Maps as Fingerprints", INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS, October 2014 Vol. 24, Num. 10, Page 1-18, October 2014,
- 33 Samine Mesbah, Motahareh Moghtadaei, Mohammadreza Hashemigolpayegany, Farzad Towhidkhah, "One-dimensional map-based neuron model: A logistic modification", CHAOS SOLITONS & FRACTALS, May 2014 Vol. 65, Num. 1, Page 20-29, May 2014,
- 34 Motahareh Moghtadaei, Mohammadreza Hashemigolpayegany, Farshad Almasganj, Arash Etemadi, Mohammad Akbari, Reza Malekzadeh, "Predicting the risk of squamous dysplasia and esophageal squamous cell carcinoma using minimum classification error method", COMPUTERS IN BIOLOGY AND MEDICINE, February 2014 Vol. 45, Num. 1, Page 51-57, February 2014,
- 35 Maliheh Molaei, Sajad Jafari, Mohammad Hassan Moradi, Julien Clinton Sprott, Mohammadreza Hashemigolpayegany, "A Chaotic Viewpoint on Noise Reduction from Respiratory Sounds", BIOMEDICAL SIGNAL PROCESSING AND CONTROL, December 2013 Vol. -, Num. 0, Page 0-0, December 2013,
- 36 Maliheh Molaei, Sajad Jafari, J. C. Sprott, Mohammadreza Hashemigolpayegany, "Simple chaotic flows with one stable equilibrium", INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS, November 2013 Vol. 23, Num. 11, Page 1-7, November 2013,
- 37 Motahareh Moghtadaei, Mohammadreza Hashemigolpayegany, Reza Malekzadeh, "Periodic and chaotic dynamics in a map-based model of tumor-immune interaction", JOURNAL OF THEORETICAL BIOLOGY, October 2013 Vol. 334, Num. 1, Page 130-140, October 2013,
- 38 Maryam Beigzadeh, Mohammadreza Hashemigolpayegany, Shahriar Gharibzadeh, "Can Cellular Automata Be a Representative model for Visual Perception Dynamics?", Frontiers in Computational Neuroscience, October 2013 Vol. 7, Num. 130, Page 1-2, October 2013,
- 39 Fatemeh Hadaeghi, Mohammadreza Hashemigolpayegany, Shahriar Gharibzadeh, "What is the mathematical description of the treated mood pattern in bipolar disorder?", Frontiers in Computational Neuroscience, August 2013 Vol. 7, Num. 106, Page 1-3, August 2013,
- 40 Sajad Jafari, Mohammadreza Hashemigolpayegany, Shahriar Gharibzadeh, "Is there any geometrical information in the nervous system?", Frontiers in Computational Neuroscience, August 2013 Vol. 7, Num. 121, Page 1-2, August 2013,
- 41 Fatemeh Hadaeghi, Mohammadreza Hashemigolpayegany, Keivan Moradi, "Does "crisis-induced intermittency" explain bipolar disorder dynamics?", Frontiers in Computational Neuroscience, August 2013 Vol. 7, Num. 116, Page 1-3, August 2013,
- 42 Somayeh Raiesdana, Mohammadreza Hashemigolpayegany, "Study on chaos anti-control for hippocampal models of epilepsy", NEUROCOMPUTING, July 2013 Vol. 111, Num. 1, Page 54-69, July 2013,
- 43 Sajad Jafari, Golnaz Baghdadi, Mohammadreza Hashemigolpayegany, Farzad Towhidkhah, Shahriar Gharibzadeh, "Is Attention Deficit Hyperactivity Disorder a Kind of Intermittent Chaos?", JOURNAL OF NEUROPSYCHIATRY AND CLINICAL NEUROSCIENCES, June 2013 Vol. 25, Num. 2, Page 2-2, June 2013,
- 44 Sajad Jafari, Mohammadreza Hashemigolpayegany, Amir Homayoun Jafari, Shahriar Gharibzadeh, "A novel viewpoint on the parameter estimation in a chaotic neuron model", JOURNAL OF NEUROPSYCHIATRY AND CLINICAL NEUROSCIENCES, March 2013 Vol. 25, Num. 1, Page 19-19, March 2013,
- 45 Sajad Jafari, Mohammadreza Hashemigolpayegany, Mansour Rasoulzadeh Darabad, "Comment on "Parameter identification and synchronization of fractional-order chaotic systems" [Commun Nonlinear Sci Numer Simulat 2012;17:305-16]", COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, March 2013 Vol. 18, Num. 3, Page 811-814, March 2013,
- 46 Sajad Jafari, Zohreh Ansari, Mohammadreza Hashemigolpayegany, Shahriar Gharibzadeh, "Is attention a "period window" in the chaotic brain?", JOURNAL OF NEUROPSYCHIATRY AND CLINICAL NEUROSCIENCES, March 2013 Vol. 25, Num. 1, Page 5-5, March 2013,

- 47 Sajad Jafari, Julien Clinton Sprott, Mohammadreza Hashemigolpayegany, "Elementary quadratic chaotic flows with no equilibria", PHYSICS LETTERS A, March 2013 Vol. 377, Num. 9, Page 699-702, March 2013,
- 48 Motahareh Moghtadaei, Mohammadreza Hashemigolpayegany, Reza Malekzadeh, "A variable structure fuzzy neural network model of squamous dysplasia and esophageal squamous cell carcinoma based on a global chaotic optimization algorithm", JOURNAL OF THEORETICAL BIOLOGY, February 2013 Vol. 318, Num. 1, Page 164-172, February 2013,
- 49 Motahareh Moghtadaei, Mohammadreza Hashemigolpayegany, "Complex dynamic behaviors of the complex Lorenz system", SCIENTIA IRANICA TRANSACTION D-COMPUTER SCIENCE & ENGINEERING AND ELECTRICAL ENGINEERING, January 2013 Vol. 19, Num. 3, Page 733-738, January 2013,
- 50 Sajad Jafari, Mohammadreza Hashemigolpayegany, Ayoub Daliri, "Comment on 'Parameters Identification of Chaotic Systems by Quantum-Behaved Particle Swarm Optimization' [Int. J. Comput. Math. 86 (12)(2009), Pp. 2225-2235]", INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, November 2012 Vol. 90, Num. 5, Page 903-905, November 2012,
- 51 Sajad Jafari, Mohammadreza Hashemigolpayegany, Amir Homayoun Jafari, "A novel noise reduction method based on geometrical properties of continuous chaotic signals", SCIENTIA IRANICA TRANSACTION D-COMPUTER SCIENCE & ENGINEERING AND ELECTRICAL ENGINEERING, November 2012 Vol. 0, Num. 0, Page 0-0, November 2012,
- 52 Sajad Jafari, Mohammadreza Hashemigolpayegany, Amir Homayoun Jafari, "A Novel Noise Reduction Method Based on Geometrical Properties of Continuous Chaotic Signals", Scientia Iranica, November 2012 Vol. 19, Num. 6, Page 1837-1842, November 2012,
- 53 Sajad Jafari, Mohammadreza Hashemigolpayegany, Amir Homayoun Jafari, "Is Stretching and Folding Feature of Chaotic Trajectories Useful in Adaptive Local Projection?", Journal of Medical Signals and sensors, April 2012 Vol. 2, Num. 2, Page 112-113, April 2012,
- 54 Sajad Jafari, Mohammadreza Hashemigolpayegany, Amir Homayoun Jafari, Shahriar Gharibzadeh, "Some Remarks on Chaotic Systems", INTERNATIONAL JOURNAL OF GENERAL SYSTEMS, March 2012 Vol. 41, Num. 3, Page 329-330, March 2012,
- 55 Sima Hoseingholizade, Mohammadreza Hashemigolpayegany, Amin Sabour Rouh Monfared, "Studying emotion through nonlinear processing of EEG", Procedia-Social and Behavioral Sciences, February 2012 Vol. 32, Num. 2012, Page 163-169, February 2012,
- 56 Iman Mohammad Rezazadeh, Seyed Mohammad Firoozabadi, Huosheng Hu, Mohammadreza Hashemigolpayegany, "A novel human-machine interface based on recognition of multi-channel facial bioelectric signals", AUSTRALASIAN PHYSICAL & ENGINEERING SCIENCES IN MEDICINE, November 2011 Vol. 34, Num. 4, Page 497-513, November 2011,
- 57 Saman Parvaneh, Mohammadreza Hashemigolpayegany, Seyed Mohammad Firoozabadi, Majid Haghighi, "Predicting the Spontaneous Termination of Atrial Fibrillation based on Poincare Section in the Electrocardiogram Phase Space", PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART H-JOURNAL OF ENGINEERING IN MEDICINE, October 2011 Vol. 226, Num. 1, Page 3-20, October 2011,
- 58 Iman Mohammad Rezazadeh, Xiangyu Wang, Seyed Mohammad Firoozabadi, Mohammadreza Hashemigolpayegany, "Using Affective Human-Machine Interface to increase the operation Performance in Virtual Construction Crane Training System: A Novel Approach", AUTOMATION IN CONSTRUCTION, May 2011 Vol. 20, Num. 3, Page 289-298, May 2011,
- 59 Somayeh Raiesdana, Seyed Mohammad Firoozabadi, Mohammadreza Hashemigolpayegany, "An evolutionary network model of epileptic phenomena", NEUROCOMPUTING, January 2011 Vol. 74, Num. 4, Page 617-628, January 2011,
- 60 Saeid Rashidi, Mohammadreza Hashemigolpayegany, Ali Fallah, Farzad Towhidkhah, "Model law governing the geometry and motion in graphical models skillful hands", , June 2010 Vol. 4, Num. 1, Page 33-44, June 2010,
- 61 Yashar Sarbaz, Masood Banaei, Mohammadreza Hashemigolpayegany, Farzad Towhidkhah, Shahriar Gharibzadeh, Mohammad Poyan, "A Chaotic Viewpoint on DBS Treatment of Parkinson's Disease", JOURNAL OF NEUROPSYCHIATRY AND CLINICAL NEUROSCIENCES, April 2010 Vol. 22, Num. 2, Page 0-0, April 2010,
- 62 Somayeh Raiesdana, Mohammadreza Hashemigolpayegany, Seyed Mohammad Firoozabadi, Jafar Mehvari Habibabadi, "on the discrimination of patho-physiological states in epilepsy by means of dynamical features", COMPUTERS IN BIOLOGY AND MEDICINE, December 2009 Vol. 39, Num. 11, Page 1073-1082, December 2009,

- 63 Mahboubeh Rezakhah Varnoosafaderany, Mohammadreza Hashemigolpayegany, Mohammad Hassan Moradi, Momen-Zade, S.S.Razavi, "Envestigation of matching between cardiac parameters and Depth of anaesthesia", , November 2009 Vol. 33, Num. 3, Page 141-145, November 2009,
- 64 Siamak Haqi Pour, Mohammadreza Hashemigolpayegany, Seyed Mohammad Firoozabadi, Siroos Momenzade, "Pain cybernetic modeling and sensory processes related to spinal cord dorsal horn", , September 2009 Vol. 3, Num. 3, Page 227-242, September 2009,
- 65 Mahboubeh Rezakhah Varnoosfaderani, Mohammadreza Hashemigolpayegany, Mohammad Hassan Moradi, Siroos Momenzade, Seyed Sajad Razavi, "Studing consistency of Cardiac Parameters with the level of Consciousness", , September 2009 Vol. 33, Num. 3, Page 141-145, September 2009,
- 66 Amin Mahnam, Mohammadreza Hashemigolpayegany, "Computational evaluation of methods for measuring the spatial extent of neural activation", , August 2008 Vol. , Num. 173, Page 0-0, August 2008,
- 67 , Mohammadreza Hashemigolpayegany, Ali Fallah, "A Method for Controlling of Hand Prosthesis Based on Neural Network", INTERNATIONAL JOURNAL OF APPLIED MATHEMATICS AND COMPUTER SCIENCE, April 2007 Vol. 0, Num. 2, Page 0-0, April 2007,
- 68 Amir Homayoun Jafari, Mohammadreza Hashemigolpayegany, Farzad Towhidkhah, Ali Fallah, "A Model For Skill Movements Based on Self -Organized Control Strategy", IRANIAN BIOMEDICAL JOURNAL, January 2005 Vol. , Num. 2, Page 0-0, January 2005,
- 69 Mohammad Mikaeili, Mohammadreza Hashemigolpayegany, "Assessment of the complexity/regularity of transient brain waves (EEG) during sleep ,based on wavelet theory and the concept of entropy", , December 2002 Vol. , Num. 26, Page 0-0, December 2002,
- 70 Mohammadreza Hashemigolpayegany, [en-name N/A], Howard Jay Chizeck, "Using evoked emg as a synthetic force sensor of isometric electrically stimulated mvscle", , January 1998 Vol. , Num. 2, Page 0-0, January 1998,
- 71 Mohammadreza Hashemigolpayegany, [en-name N/A], [en-name N/A], [en-name N/A], "A fast training algorithm for radial basis function networks", , March 1997 Vol. , Num. , Page 0-0, March 1997,
- 72 Mohammadreza Hashemigolpayegany, Ali Fallah, [en-name N/A], "Control of cybernetical Arm by Artificial Neural Network", , September 1994 Vol. , Num. 27, Page 0-0, September 1994,

Conference Papers

Portal Records

- 1 Sadegh Marzban, Zahra Sadat Hosseini, Farzad Towhidkhah, Mohammadreza Hashemigolpayegany, "A New Approach to Modeling Parkinson's Disease with Sine-Circle Map ", 7th basic and clinical neuroscience congress, December 2018
- 2 Fatemeh Delavari, Mohammadali Ahmadi Pajouh, Mohammadreza Hashemigolpayegany, "Effects of motor imagery on the center of pressure dynamics in the standing posture of a healthy individual ", 25th national and 3rd international Conference on Biomedical Engineering, November 2018
- 3 Fahimeh Nazarimehr, Bahareh Safarballi, Mohammadreza Hashemigolpayegany, Sajad Jafari, "Atrial Fibrillation Modeling Based on Global Insight ", 23rd National & 1st International Iranian Conference on Biomedical Engineering, November 2016
- 4 Iman Mohammad Rezazadeh, Seyed Mohammad Firoozabadi, Mohammadreza Hashemigolpayegany, Huosheng Hu, "Controlling a Virtual Forehand Prosthesis Using an Adaptive and Affective Human-Machine Interface ", 33rd Annual International Conference of the IEEE EMBS, August 2011
- 5 [en-name N/A], Fahimeh Mamashli, Mohammadreza Hashemigolpayegany, "Learning top- down visual attention control ", , June 2008
- 6 Saeid Rashidi, Mohammadreza Hashemigolpayegany, Ali Fallah, "a ", [icbme2008.org?](http://icbme2008.org/), February 2008
- 7 Saeid Rashidi, Mohammadreza Hashemigolpayegany, Ali Fallah, Farzad Towhidkhah, "k ", First National Electrical Engeering Conference, February 2008

- 8 Fereidoun Nowshiravan Rahatabad, Mohammad Ali Nekoui, Mohammadreza Hashemigolpayegany, Ali Fallah, Mehdi Kazemzadeh Narbat, "Towards cybernetic hand: A neural network method for hand prosthesis control ", Control & Automation, 2007. MED 07. Mediterranean Conference on, July 2007
- 9 , [en-name N/A], Mohammadreza Hashemigolpayegany, Ali Fallah, [en-name N/A], "A method for controlling of hand prosthesis based on neural network " , , April 2007
- 10 Saeid Rashidi, Mohammadreza Hashemigolpayegany, Ali Fallah, Farzad Towhidkhah, "Chaotic Behavior of Musculoskeletal Active Force and Speed-Accuracy Trade Off ", Iranian conference on biomedical engineering, February 2007
- 11 Gholamreza Salimi Khorshidi, Mohammadreza Hashemigolpayegany, "Modifying the classic template matching technique using a fuzzy multi agent an accurate P300 detection " , , December 2006
- 12 Gholamreza Salimi Khorshidi, Mohammadreza Hashemigolpayegany, "Using simple MLPs in modular architecture to improve the P300 detection accuracy " , , December 2006
- 13 Saeid Rashidi, Mohammadreza Hashemigolpayegany, Ali Fallah, Farzad Towhidkhah, "The Relationship Between Geometry and Kinematics of Skillful Drawing Patterns ", Iranian conference on biomedical engineering, November 2005
- 14 Mohammadreza Hashemigolpayegany, Amin Mahnam, "1 -exploring stimulus waveform space for selective stimulation of neural fibers " , , March 2005
- 15 Mohammadreza Hashemigolpayegany, Amin Mahnam, "2 - the use of ramp shaped stimulus for selective stimulation of neural fibers in peripheral nerves " , , March 2005
- 16 Afshin Samani, Mohammadreza Hashemigolpayegany, "online signature verification using wavelet and chaotic features " , , June 2004
- 17 Ali Motie Nasrabadi, Mohammadreza Hashemigolpayegany, [en-name N/A], "genetic algrithm as the selection criteria of superior eeg channels in classification of mental tasks " , , July 2003
- 18 S.Ali Seyyedsalehi, S.Ahmad Motamedi, Mohammadreza Hashemigolpayegany, [en-name N/A], "Phoneme Recognition using inverse Dynamics model of vocal system " , , January 1995
- 19 Mahyar Zardoshti Karmani, Khashayar Badiie, Mohammadreza Hashemigolpayegany, "EMGfeature Evaluation for Movement Control of Upper Extremlity Prosthesis " , , March 1994
- 20 Mohammadreza Hashemigolpayegany, Ali Fallah, Hamid Sedaghat, "Computerized control of tehran cybernetic arm " , , March 1992
- 21 Kamyab Mahoti, S.Ahmad Motamedi, Mohammadreza Hashemigolpayegany, "AN APPROACH TO REDUNDANCY CANCELLING IN ORDER TO USE A SINGLE CHIP PROCESSOR FOR YAN EVALUATION IN CYBERNETIC ARM " , , January 1991
- 22 Mohammadreza Hashemigolpayegany, Mohammad Amir Ahmadi, Afshin Hariry, Ali Fallah, "A self tuning controller for servo systems with adaptive dynamic inverse plant " , , July 1990
- 23 Mohammadreza Hashemigolpayegany, "A New approach for myoelectric control a cybernetic ARM " , , March 1990
- 24 Mohammadreza Hashemigolpayegany, Ali Fallah, Ramina Mikaili, "Computer control of a dc motor as an actuator in cybernetic arm " , , September 1989