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فصلی از کتاب

1) Fariba Bahrami Boodelalou, and Shiva Farashani Ghaani. "How Do We Navigate Our Way to Places?." : John Wiley & Sons Ltd., 2017.

مقالات چاپ شده در نشریات بین المللی

- 1) Robert Riener , Thomas Fuhr , فریبا بهرامی بوده لالو , Jochen Quintern و Gunther Schmidt . " پروتز عصبی ". Biomedizinische Technik. Biomedical engineering -, 42 (1375): 285-286.
- 2) Fariba Bahrami Boodelalou, Robert Riener , and Schmidt . "Optimal trajectory generation for a paraplegic patient rising from a chair by means of FES : preliminary results." Neuroprosthetics from research to clinical application 285, no. --- (1996): 285-292.
- 3) Fariba Bahrami Boodelalou, Robert Riener , Parviz Jabedar Maralani , and Günther Schmidt . "Biomechanical analysis of sit - to - stand transfer in healthy and paraplegic subjects." CLINICAL BIOMECHANICS 15, no. 2 (2000): 1323-1333.
- 4) R Rajimehr , S Farsiu , Lm Kouhsari , A Bidari , Caro Lucas, S Yousefian , and Fariba Bahrami Boodelalou. "Prediction of lupus nephritis in patients with systemic lupus erythematosus using artificial neural networks.." LUPUS 11, no. 8 (2002): 492-485.
- 5) R. Rajimehr, S. Farsiu, L. Kouhsari, M. Bidari, Caro Lucas, S. Yousefian, and Fariba Bahrami Boodelalou. "Prediction of lupus in patients with systemic lupus erythematosus using artificial neural networks." LUPUS 2002, no. 11 (2002): 485-492.
- 6) M.. Emadi, Fariba Bahrami Boodelalou, and Parviz Jابه Darmaralani. "AMA MOSAICI:An automatic module assigning hierarchical structure to control human motion based on movement decomposition." NEUROCOMPUTING 72, no. - (2009): 2310-2318.
- 7) Arabneydi Jalal , Moshiri Behzad , and Fariba Bahrami Boodelalou. "Modeling Gait Using CPG (Central Pattern Generator) and Neural Network." Lecture Notes in Computer Science -, no. --- (2009): 130-137.
- 8) Mehran Emadi Andani , Fariba Bahrami Boodelalou, Parviz Jابه Darmaralani, and Auke Ijssper . "MODEM: A multi - agent hierarchical structure to model human motor control system." BIOLOGICAL CYBERNETICS 101, no. 5-6 (2009): 361-377.
- 9) Rosita Hedayati, Sedighe Kahrizi, Mohammad Parnianpour, Fariba Bahrami Boodelalou, and Anoushiravan Kazemnejad. "The study of the variability of anticipatory postural adjustment in recurrent non-specific LBP patients." World Academy of Science, Engineering and Technology 45, no. 3356 (2010): 6616-6619.
- 10) Mahmood Amiri , Fariba Bahrami Boodelalou, and Mahyar Janahmad . "Functional modeling of astrocytes in epilepsy : a feedback system perspective." NEURAL COMPUTING & APPLICATIONS 20, no. 8 (2010): 1131-1139.
- 11) Mahmood Amiri, Gazal Montaseri, and Fariba Bahrami Boodelalou. "On the Role of Astrocytes in Synchronization of Two Coupled Neurons : A Mathematical Perspective." BIOLOGICAL CYBERNETICS 105, no. 2 (2011): 153-166.

- 12) Alireza Nahvi, Fariba Bahrami Boodelalou, and Samira Hemmati . "Investigating different targets in deep brain stimulation on Parkinsons disease using a mean field model of the basal ganglia - thalamocortical system." *Journal of Mechanics in Medicine and Biology* 12, no. 2 (2011): 1240004-1-13.
- 13) Mahmoud Amiri, Fariba Bahrami Boodelalou, and Mahyar Janahmadi . "Functional contributions of astrocytes in synchronization of a neural network model." *JOURNAL OF THEORETICAL BIOLOGY* 292, no. --- (2012): 60-70.
- 14) Mahmood Amiri , Fariba Bahrami Boodelalou, and Mahyar Janahmadie . "On the role of astrocytes in epilepsy : A functional modeling approach." *NEUROSCIENCE RESEARCH* 2, no. 72 (2012): 172-180.
- 15) Mahmood Amiri , Narges Hosseinmardi , Fariba Bahrami Boodelalou, and Mahyar Janahmadi . "Astrocyte - neuron interaction as a mechganism responsible for generation of neural synchrony : a study based on modeling and experiments." *JOURNAL OF COMPUTATIONAL NEUROSCIENCE -*, no. --- (2012): 1-15.
- 16) M Amiri , Fariba Bahrami Boodelalou, and Mahyar Janahmadi . "Modified thalamocortical model: A step towards more understanding of the functional contribution of astrocytes to epilepsy." *JOURNAL OF COMPUTATIONAL NEUROSCIENCE* 33, no. 2 (2012): 285-299.
- 17) Mehran Emadi Andani , and Fariba Bahrami Boodelalou. "COMAP : A new computational interpretation of human movement planning level based on coordinated minimum angle jerk policies and 6 universal movement elements." *HUMAN MOVEMENT SCIENCE* 31, no. 5 (2012): 1037-1055.
- 18) Mahmoud Amiri, Gazal Montaseri, and Fariba Bahrami Boodelalou. "A phase plane analysis of neuron-astrocyte interactions." *NEURAL NETWORKS -----*, no. 44 (2013): 157-165.
- 19) Mohsen Sadeghi, Mahran Emadi Andani, Fariba Bahrami Boodelalou, and Mohammad Parnianpour. "Trajectory of human movement during sit to stand: a new modeling approach based on movement decomposition and multi-phase cost function." *EXPERIMENTAL BRAIN RESEARCH* 229, no. 2 (2013): 221-234.
- 20) Sahameddin Khailaie, Fariba Bahrami Boodelalou, Mahyar Janahmadi, Milanez Almada, and Herman Meyer. "A Mathematical Model of Immune Activation with a Unified Self-Nonself Concept." *Frontiers in Immunology* 4, no. 474 (2013): 1-19.
- 21) Payam Piray, Yashar Zeighami, Fariba Bahrami Boodelalou, Abeer Eissa, Doaa H. Hewedi, and Ahmed A. Moustafa. "Impulse Control Disorders in Parkinson's Disease Are Associated with Dysfunction in Stimulus Valuation But Not Action Valuation." *JOURNAL OF NEUROSCIENCE* 34, no. 23 (2014): 7814-7824.
- 22) Ziba Gandomkar, and Fariba Bahrami Boodelalou. "Method to classify elderly subjects as fallers and non-fallers based on gait energy image." *Healthcare Technology Letters* 1, no. 3 (2014): 110-114.
- 23) Gazal Montaseri, Mohammad Javad Yazdanpanah, and Fariba Bahrami Boodelalou. "Designing a deep brain stimulator to suppress pathological neuronal synchrony." *NEURAL NETWORKS* 63, no. 3 (2015): 282-292.
- 24) M. Qomlaqi, Fariba Bahrami Boodelalou, Maryam Ajami, and Jamshid Hajati. "An extended mathematical model of tumor growth and its interaction with the immune system, to be used for developing an optimized immunotherapy treatment protocol." *MATHEMATICAL BIOSCIENCES* 292, no. 292 (2017): 1-9.
- 25) Mohammadreza Rafiemanzelat, and Fariba Bahrami Boodelalou. "Attractor Stabilizability of Boolean Networks with Application to Biomolecular Regulatory Networks." *IEEE Transactions on Control of Network Systems* _____, no. _____ (2018): 1-1.
- 26) Mehdi Borjkhani, Fariba Bahrami Boodelalou, and Mahyar Janahmadi. "Computational modeling of opioid-induced synaptic plasticity in hippocampus." *PLoS One* _____, no. _____ (2018): 1-31.
- 27) Mohammadreza Rafiemanzelat, and Fariba Bahrami Boodelalou. "Attractor controllability of Boolean networks by flipping a subset of their nodes." *CHAOS* 28, no. 4 (2018): 043120.
- 28) Mehdi Borjkhani, Fariba Bahrami Boodelalou, and Mahyar Janahmadi. "Formation of Opioid-Induced Memory and Its Prevention: A Computational Study." *Frontiers in Computational Neuroscience* 12, no. _____ (2018): _____.
- 29) Razieh Mosayebi, and Fariba Bahrami Boodelalou. "A modified particle swarm optimization algorithm for parameter estimation of a biological system." *Theoretical Biology and Medical Modelling* 15, no. 1 (2018): .

healthy adults and below knee amputees during voluntary arm movement." فصلنامه مهندسی پزشکی زیستی 3 (2009): 171-178. Boodelalou, Fariba Bahrami Boodelalou, and Hossein Karimi, "A biomechanical comparison of postural control mechanisms between healthy adults and below knee amputees during voluntary arm movement." فصلنامه مهندسی پزشکی زیستی 3 (2009): 171-178.

1) Fariba Bahrami

2) Sedigheh Dehghani, and Fariba Bahrami Boodelalou. "Unified modules in muscle synergies during complicated point to point hand motions in vertical planes." Modares Journal of electrical engineering 13, no. 1 (2013): 19-30.

3) Alireza Tabrizzadeh, Fariba Bahrami Boodelalou, and Mohammad Javad Yazdanpanah. "Bipedal Robot Locomotion on a Terrain with Pitfalls." Majlesi Journal of Electrical Engineering 8, no. 4 (2014): 59-65.

4) Mehdi Borjkhani, Fariba Bahrami Boodelalou, and Mahyar Janahmadi. "Assessing the Effects of Opioids on Pathological Memory by a Computational Model." Basic and Clinical Neuroscience 4, no. 9 (2018): ____.

5) پرویز جبه دارمارالانی ، مهدی عرفانی و فریبا بهرامی بوده لالو. "شبیه سازی حرکات ارادی بیماران ضایعه نخاعی در هنگام برخاستن از روی صندلی." نشریه دانشکده فنی دانشگاه تهران 33, 2 (1378): 19-9.

6) مریم نقیب الحسینی و فریبا بهرامی بوده لالو. "مدلی رفتار پایه جهت توصیف یادگیری نوشتن حروف فارسی." فصلنامه مهندسی پزشکی زیستی 2, 2 (1387): 84-75.

7) رزیتا هدایتی ، صدیقه کهریزی ، محمد پرنیانپور ، فریبا بهرامی بوده لالو، انوشیروان کاظم نژاد و بهرام مبینی . "تغییرپذیری زمانبندی تنظیمات وضعیتی پیش بینانه پس از انجام تمرینات ثباتی در بیماران مبتلا به کمر درد غیراختصاصی تکرار شونده." مجله علوم پزشکی مدرس 13, 2 (1389): 61-51.

8) محمود امیری، فریبا بهرامی بوده لالو و مهیار جان احمدی. "مدلسازی عملکردی نقش آستروسیت ها در سنکرون سازی فعالیت سلول های عصبی." فصلنامه مهندسی پزشکی زیستی 4, 2 (1389): 96-83.

9) انوشیروان کاظم نژاد ، بهرام مبینی ، رزیتا هدایتی ، سارا طاهریان ، صدیقه کهریزی ، فریبا بهرامی بوده لالو و محمد پرنیان پور . "مقایسه تغییرپذیری زمانبندی تنظیمات وضعیتی پیش بینانه در بیماران مبتلا به کمر درد غیراختصاصی تکرار شونده و افراد سالم." فصلنامه توانبخشی 43, 3 (1389): 65-58.

10) زیبا گندمکار و فریبا بهرامی بوده لالو. "تفکیک سالمندان با سابقه زمین خوردن از سالمندان بدون سابقه زمین خوردن با استفاده از دسته ویژگی های جدید استخراج شده از الگوی متناوب راه رفتن." فصلنامه مهندسی پزشکی زیستی 6, 3 (1391): 25-11.

11) رزیتا هدایتی، صدیقه کهریزی، محمد پرنیانپور، فریبا بهرامی بوده لالو، انوشیروان کاظم نژاد و بهرام مبینی. "بررسی تاثیر انجام تمرینهای ثباتی بر باورهای اجتنابی ناشی از ترس و ناتوانی در بیماران مبتلا به کمر درد غیر اختصاصی تکرار شونده." کومش 17, 1 (1394): 151-142.

همایش های بین المللی

1) Fariba Bahrami Boodelalou, , and . "Optimal trajectory generation for a paraplegic patient rising from a chair by means of FES." Proc. Of the first Annual Conference of the International Functional Electrical stimulation society case western Reserve University, Ohio.

2) , Fariba Bahrami Boodelalou, and . "Trajectory generation by parametric optimization to predict the kinematics and Kinetics of a subject rising from a chair." Proc. Of the ninth Conference of the Biomechanics and Neural Control Deer Creek Restore and Conference center Mt, Ohio.

3) , Fariba Bahrami Boodelalou, and . "Trajectory generation by parametric optimization to predict the kinematics and kinetics of a subject rising from a chair." Proc. of the ninth Conference of the Biomechanics and Neural Control, Ohio.

4) Fariba Bahrami Boodelalou, , and . "Closed loop control strategies for a paraplegic patient rising from a chair by means of FES: simulation studies." Proc. of the ninth International Conference on Mechanics in Medicine and Biology, Ljubljana.

5) Fariba Bahrami Boodelalou, , and . "Arm-supported standing up: A comparative study." Proc. of the second Annual Conference of the International Functional Electrical Stimulation Society, Vancouver.

6) , , Fariba Bahrami Boodelalou, , and . "Sit-to-stand transfer of paraplegic patients by means of functional electrical stimulation." Proc. of the 1st International Conference on Motion Systems, Jena.

simulation of the sit-to-stand task performed by a paraplegic patient: simulated patient." Tehran, ششمین کنفرانس مهندسی برق ایران.

7) Fariba Bahrami Boodelalou, , and Parviz Jابه Darmaralani. "Fuzzy rule-based

- 8) Fariba Bahrami Boodelalou, , and . "Integrating the voluntary movements of paraplegic patients intact limbs in FES-controllers: part I virtual patient." 4th Annual Conference of the International Functional Electrical Stimulation Society, Sendai.
- 9) , Fariba Bahrami Boodelalou, and Parviz Jابه Darmaralani. "Integrating the voluntary movements of paraplegic patients intact limbs in FES-controllers: part II a Fuzzy FES-controller." 4th Annual Conference of the International Functional Electrical Stimulation society, Sendai.
- 10) , , and Fariba Bahrami Boodelalou. "Improving the inverse dynamic calculations using two optimization methods." Ninth Iranian conference in Biomedical Engineering, Tehran.
- 11) Fariba Bahrami Boodelalou, , and . "Prediction of the movement pattern considering limited isometric muscle forces in lower extremities." Ninth Iranian Conference on Biomedical Engineering, Tehran.
- 12) , and Fariba Bahrami Boodelalou. "Virtual patient: Paraplegic Patient Movement Simulation during rising from a Chair Using Emotional Learning Method." 10th Iranian Electrical Engineering Conference, Tabriz.
- 13) , Fariba Bahrami Boodelalou, and . "Reprogramming sit-to-stand and sit-to-walk movement sequence under different temporal constraints." the IV World Congress on Biomechanics, Calgary.
- 14) , Fariba Bahrami Boodelalou, and . "Control pattern of a combined task." ISPGR 2003, Sydney.
- 15) Fariba Bahrami Boodelalou, , and . "Initial components of sit-to-stand motor pattern is different from initial component of sit-to-walk motor pattern." ISPGR 2003, Sydney.
- 16) Fariba Bahrami Boodelalou, , and . "Balance Recovery after an Unexpected Media-lateral Gait Perturbation." 11th Iranian Conference on Biomedical Engineering, Tehran.
- 17) Fariba Bahrami Boodelalou, and . "Strategies applied to Control gait initiation after standing up from a seated position." 11th Iranian Conference on Biomedical Engineering, Tehran.
- 18) Fariba Bahrami Boodelalou, , and . "Stability Analysis of Medio-Laterally Perturbed Gait." 13th Biennial Conference for the Canadian Society for Biomechanics, Halifax.
- 19) Fariba Bahrami Boodelalou, , and . "Recovery from an Unexpected Rightway Push during Walking on a Laterally Constrained Walkway." 13th Biennial Conference for the Canadian Society for Biomechanics, Halifax.
- 20) M.. Emadi, Fariba Bahrami Boodelalou, and Mohammad Javad Yazdanpanah. "Simulation of the STS Transfer Using a MLP without Embedded Internal Feedback." 8th Vienna International Workshop on Functional Electrical Stimulation, Vienna.
- 21) M.. Emadi, Fariba Bahrami Boodelalou, Mohammad Javad Yazdanpanah, and . "Movement prediction using an MLP without internal feedback." International conference on systems, man and cybernetics -IEEE SMS 2004, The Hague.
- 22) Fariba Bahrami Boodelalou. "Bio-Informatics." Information Technology: Future Trends and Socio-Cultural Impact, Tehran.
- 23) Fariba Bahrami Boodelalou, and . "Alternate Foot-placement in the Presence of a Planar Obstacle: Model Development." ISPGR2005, Marseille.
- 24) Fariba Bahrami Boodelalou, and . "Path Planning in an Environment with Disconnected Foot-Placement Sectors: A Fuzzy Rule-Based Model." ISPGR2005, Marseille.
- 25) , Fariba Bahrami Boodelalou, and Caro Lucas. "Motor Planning Using Reinforcement Learning." Progress in Motor Control V: Multidisciplinary Perspective, Pennsylvania.
- 26) M.. Emadi, Fariba Bahrami Boodelalou, Caro Lucas, and Parviz Jابه Darmaralani. "Predicting STS Movement Based on reinforcement Learning." 12th Iranian Conference on Biomedical Engineering, Tabriz.
- 27) P. Darvishzadeh, and Fariba Bahrami Boodelalou. "What are the Criteria Determining Foot-placements during Gait? A Study through Modeling." 14th Iranian Electrical Engineering Conference, Tehran.
- 28) A. Marandi, F. Afshinmanesh, Mahmoud Shahabadi, and Fariba Bahrami Boodelalou. "Boolean Particle Swarm Optimization and Its Application to the Design of a Dual-Band Dual-Polarized Planar Antenna." IEEE World Congress on Computational Intelligence, Vancouver.

- 29) Z. Ghatan, A. Fallahi, , Mahmoud Shahabadi, Caro Lucas, and Fariba Bahrami Boodelalou. "A novel 2D algorithm for band gap optimization of two dimensional photonic crustals." IEEE World Congress on Computational Intelligence, Vancouver.
- 30) H. Mahjoubi, Fariba Bahrami Boodelalou, and Caro Lucas. "Path Planning in an Environment with Static and Dynamic Obstacles Using Genetic Algorithm." IEEE World Congress on Computational Intelligence,.
- 31) H. Homayouni, H. Mahjoubi, Fariba Bahrami Boodelalou, and . "A Hierarchical Model to Simulate Human Path Planning in an Environment with Discrete Footholds." Proc of Cairo International Biomedical Engineering Conference, Cairo.
- 32) H. Mahjoubi, and Fariba Bahrami Boodelalou. "A Realistic Navigation Algorithm for an Intelligent Robotic Wheelchair." Proc Cairo International Biomedical Engineering Conference, Cairo.
- 33) H. Mahjoubi, and Fariba Bahrami Boodelalou. "A Novel Heuristic Approach to Real-time Path Planning for Nonholonomic Robots." the 3rd International Conference on Autonomous Robots and Agents,.
- 34) Mr. Khoie, P. Ataie, and Fariba Bahrami Boodelalou. "Developing a Hierarchical Model Consisted of Auto Associative Neural Networks to Perceive Image Content." the 13th Iranian Conference on Biomedical Engineering, Tehran.
- 35) P. Bahman Bijari, A. Akhoundi Asl, Fariba Bahrami Boodelalou, , and H. Hakimian. "A fuzzy wavelet coefficients discriminator to detect ECG Arrhythmia from Two leads." 15th Iranian Conference on Electrical Engineering, Tehran.
- 36) R. Moraes, and Fariba Bahrami Boodelalou. "Changes in muscle activity with the addition of gait initiation after standing up from a chair." Progress in Motor Control VI, Santos.
- 37) M.. Emadi, Fariba Bahrami Boodelalou, and Parviz Jابه Darmaralani. "A biologically inspired modular structure to control the sit-to-stand transfer of a biped robot." Proc of the 29th Annual International Conference of the IEEE EMBS, Lyon.
- 38) B. Tahayori, Mohammad Sanjari, Fariba Bahrami Boodelalou, and . "Introducing a protocol to determine treadmill walking events using phase plane analysis." Proc of Biomechanics of the Lower Limb in Health, Disease and Rehabilitation,.
- 39) S. Fazeli, M. Naghibolhosseini, and Fariba Bahrami Boodelalou. "An adaptive neuro-fuzzy inference system for diagnosis of aphasia." International Conference on Bioinformatics and Biomedical Engineering, Shanghai.
- 40) Jalal Arabneydi, Behzad Moshiri, and Fariba Bahrami Boodelalou. "Gait Phase Detection by OWA Approach." 2nd International Joint Conference on Computational Engineering, KMCM 2008,.
- 41) M.. Emadi, Fariba Bahrami Boodelalou, and Parviz Jابه Darmaralani. "A new point of view based on UCM hypothesis." Advanced technologies for neuro-motor assessment and rehabilitation, Bologna.
- 42) Jalal Arabneydi, Behzad Moshiri, and Fariba Bahrami Boodelalou. "Non Force-Based Gait Phase Detection." 2nd International Conference on Control, Automation and Systems,.
- 43) H. Homayouni, Fariba Bahrami Boodelalou, and Caro Lucas. "Biologically inspired controller for planar biped gait based on functional model of human locomotion system." International Conference on Contro Automation and systems, Seoul.
- 44) S. Fazeli, and Fariba Bahrami Boodelalou. "A Computer Model of Sequence Learning during Language Acquisition." International Conference on Neural Information Processing, ICONIP 2008,.
- 45) M. Naghibolhosseini, and Fariba Bahrami Boodelalou. "A Behavioral Based Attentive Learning and Size Scaling Model of Arabic Handwriting Generation." by International Conference on Neural Information Processing, ICONIP 2008,.
- 46) M. Naghibolhosseini, and Fariba Bahrami Boodelalou. "A behavioral Model of Writing." ICECE 2008 International Conference on Electrical and Computer Engineering, Dhaka.
- 47) M.. Emadi, Fariba Bahrami Boodelalou, Parviz Jابه Darmaralani, and . "A modularized hierarchical structure to model human motor control system." International Conference on Modeling and Simulation and Applied Optimization, Sharjah.
- 48) S. Fazeli, and Fariba Bahrami Boodelalou. "A computer model of language acquisition-syllable learning-based on hebbian cell assemblies and reinforcement learning." World Academy of Science Engineering and Technology, Dubai.
- 49) Fariba Bahrami Boodelalou, and . "Who can control his movement successfully when the task conditions change." 7th edition of Progress in Motor Control, Marseille.

- 50) Fariba Bahrami Boodelalou, , and Parviz Jabeh Darmaralani. "Real Time Correction of Movement Based on a New Model of the Motor Planning Level and Founded on Minimum Jerk Policy." 7th edition of Progress in Motor Control 2009, Marseille.
- 51) , Fariba Bahrami Boodelalou, and Parviz Jabeh Darmaralani. "A Flash-Back to Minimum Angle Jerk Policy to Describe Human Movement Planning Level." 1st International Conference on Applied Bionics and Biomechanics ICABB-2010, Venice.
- 52) , and Fariba Bahrami Boodelalou. "Assessment of Parkinsons Disease: Classification and Complexity Analysis." 17th Iranian Conference of Biomedical Engineering (ICBME2010, Isfahan.
- 53) , and Fariba Bahrami Boodelalou. "Which one is more effective in Parkinsons Disease Stimulating the motor cortex or the basal ganglia." 17th Iranian Conference of Biomedical Engineering (ICBME2010, Isfahan.
- 54) , Fariba Bahrami Boodelalou, and Babak Nadjar Araabi. "Real time estimation and tracking of human body center of mass using 2D video imaging." 1st Middle East Conference on Biomedical Engineering, Sharjah.
- 55) Amir Hossien Bakhtyari, Fariba Bahrami Boodelalou, and Babak Nadjar Araabi. "Real Time Estimation and Tracking of Human Body Center of Mass Using 2D Video Imaging." 1st Middle East Conference on Biomedical Engineering, Sharjah.
- 56) , and Fariba Bahrami Boodelalou. "Investigating the effect of different targets in deep bran stimulation on symptoms of Parkinsons disease using a mean-field model of the basal ganglia-thalamocortical system." 1st Middle East Conference on Biomedical Engineering, Sharjah.
- 57) , Fariba Bahrami Boodelalou, and Parviz Jabeh Darmaralani. "Real time movement planning: A new model to describe human motor planning level." 1st Middle East Conference on Biomedical Engineering, Sharjah.
- 58) Fariba Bahrami Boodelalou, and Younes Rakhshani. "Sit-to-Stand or Stand-to-Sit: Which Movement Can Classify Better Parkinsonian Patients From Healthy Elderly Subjects." the 18th Iranian Conference on BioMedical Engineering ICBME 2011, Tehran.
- 59) Younes Rakhshani, and Fariba Bahrami Boodelalou. "Lempel-Ziv Complexity Criteria for Nonlinear Analysis of Gait in Patients with Parkinsons Disease." the 18th Iranian Conference on BioMedical Engineering ICBME 2011, Tehran.
- 60) Sara Aghajari, and Fariba Bahrami Boodelalou. "Controlling Atrial Fibrillation Using Cohens Model." 18th Iranian Conference on BioMedical Engineering ICBME 2011, Tehran.
- 61) Fariba Bahrami Boodelalou, and . "A Mathematical Model of Arm Movement during Rhythmic Motor Activity." 18th Iranian Conference on BioMedical Engineering ICBME 2011, Tehran.
- 62) Hamed Ali Yaghini Bonabi, Majid Nili Ahmad Abadi, and Fariba Bahrami Boodelalou. "Distributed series elastic actuator: Analysis and simulations." Control, Automation and Systems (ICCAS), 2012 12th International Conference on,.
- 63) Ziba Gandomkar, and Fariba Bahrami Boodelalou. "Proposing a new set of features based on frieze pattern to discriminate normal and abnormal gait." ICBME 2012, Tehran.
- 64) Saber Dini, and Fariba Bahrami Boodelalou. "Mathematical modeling of remyelination: astrocytes as moving boundary conditions." IASTED International Conference Biomedical Engineering (BioMed 2013), Vienna.
- 65) Shiva Ghaani, and Fariba Bahrami Boodelalou. "Modeling Place field formation in hippocampus considering recurrent connections in CA3 and STD[." 21st Iranian Conference on Electrical Engineering, ICEE2013, Mashhad.
- 66) P. Piray, Yashar Zeighami, Fariba Bahrami Boodelalou, A. Eissa, D. Hewedi, and A. Moustafa. "Learning and action valuation deficits in Parkinson's disease patients with impulse control disorders." The 1st Multidisciplinary Conference on Reinforcement Learning and Decision Making (RLDM 2013),.
- 67) Shiva Ghaani, and Fariba Bahrami Boodelalou. "Does deficits in place field formation cause spatial navigation impairment in Alzheimer's disease?." the 20th Iranian Conference on BioMedical Engineering, ICBME2013, Tehran.
- 68) Ali Mahdavi, and Fariba Bahrami Boodelalou. "Neurophysiological analysis of schizophrenia based on dysfunction of the glutamatergic system using a tripartite synapse model." the 20th Iranian Conference on BioMedical Engineering, ICBME2013, Tehran.
- 69) Soheila Roohi Dehkordi, and Fariba Bahrami Boodelalou. "Impairment of Long-Term Potentiation in Alzheimer's Disease: A computational study based on tripartite synapse structure." the 20th Iranian Conference on BioMedical Engineering, ICBME2013, Tehran.

- 70) M. Mohagheghinejad, Fariba Bahrami Boodelalou, and M. Janahmadi. "A computational model of the modulation of basal ganglia function by dopamine receptors." 2014 International Conference on Biology and Biomedical Engineering (BBE '14), Venice.
- 71) S. Dehghani, and Fariba Bahrami Boodelalou. "Evaluating unified spatial and temporal muscle synergy modules - In different types of point to point hand motion in vertical planes." 22nd Iranian Conference on Biomedical Engineering (ICBME), Tehran.
- 72) J. Alizadeh, A. Vahid, and Fariba Bahrami Boodelalou. "Recognizing subjects who are learned how to write with foot from unlearned subjects using EMG signals." 23rd Iranian Conference on Biomedical Engineering and 1st International Iranian Conference on Biomedical Engineering (ICBME2016), Tehran.
- 73) Mansour Taleshi, Naser Taleshi, Sedigheh Dehghani, Fariba Bahrami Boodelalou, and Farzad Towhidkhal. "Exploring the effect of training on muscle synergies and kinematics of a task." 23rd Iranian Conference on Biomedical Engineering and 2016 1st International Iranian Conference on Biomedical Engineering (ICBME), 2016, Tehran.
- 74) Ghazal Soleimani, Mehran Emadi Andani, Hamid Marateb, and Fariba Bahrami Boodelalou. "Speed influences on complicated kinetic, kinematic and electromyographic gait data of lower extremities among healthy subjects." 23rd Iranian Conference on Biomedical Engineering and 2016 1st International Iranian Conference on Biomedical Engineering (ICBME), 2016, Tehran.
- 75) Jalal Alizadeh, Amirali Vahid, and Fariba Bahrami Boodelalou. "Recognizing subjects who are learned how to write with foot from unlearned subjects using EMG signals." 23rd Iranian Conference on Biomedical Engineering and 1st International Iranian Conference on Biomedical Engineering (ICBME), 2016, Tehran.
- 76) N. Taleshi, M. Taleshi, S. Dehghani, Fariba Bahrami Boodelalou, and Aa. Jamshidi. "Effect of attentional focus on muscles activations and their recruitment during learning a balance control task." 23rd Iranian Conference on Biomedical Engineering and 2016 1st International Iranian Conference on Biomedical Engineering (ICBME), 2016, Tehran.
- 77) M. Mohammadi, Fariba Bahrami Boodelalou, and M. Janahmadi. "1. A computational model to investigate astrocyte glutamate modulation effect on tripartite synapse and neuronal network state." Biomedical Engineering and 2016 1st International Iranian Conference on Biomedical Engineering (ICBME), 2016 23rd Iranian, Tehran.
- 78) M. Mohammadi, Fariba Bahrami Boodelalou, and M. Janahmadi. "A computational model to investigate astrocyte glutamate modulation effect on tripartite synapse and neuronal network state." 23rd Iranian Conference on Biomedical Engineering and 1st International Iranian Conference on Biomedical Engineering (ICBME2016), Tehran.
- 79) Mojtaba Karbasi, and Fariba Bahrami Boodelalou. "Intermittent Impedance Control Model for Human Upright Standing." 24th National and 2nd International Iranian Conference on Biomedical Engineering (ICBME 2017), Tehran.
- 80) Mansour Taleshi, Ara Jafarzadeh, Naser Taleshi, and Fariba Bahrami Boodelalou. "Variation of Spatiotemporal Arm Muscle Synergies During Drawing Spirals and Circles: Can it be Applied in the Analysis of Learning?." 24th National and 2nd International Iranian Conference on Biomedical Engineering (ICBME 2017), Tehran.

همایش‌های داخلی

- 1) V. Taimouri, and Fariba Bahrami Boodelalou. "Simulating Human Movement Control Using a Mixture of Experts Structure." 14th Iranian Electrical Engineering Conference (ICEE 2006), Tehran.
- 2) Shiva Ghaani, and Fariba Bahrami Boodelalou. "Modeling Alzheimer disease deficits in place field representation." 11eth Iranian Conference on Intelligent Systems, Tehran.
- 3) Atieh Arab, Fariba Bahrami Boodelalou, Samad Muhammadnejad, and Hosein Ali Arab. "Improving initial estimation of pre-clinical cancer drug dosage using a PK/PD model." the 20th Iranian Conference on BioMedical Engineering, ICBME2013, Tehran.
- 4) M. Mohammadi, A. Mahdavi, Sh. Farashahi, and Fariba Bahrami Boodelalou. "Allocentric Spatial Navigation Impairment in Schizophrenic Subject: A Model-Based Study." 23rd Iranian Conference on Electrical Engineering (ICEE), Tehran.
- 5) B. Abdi, Fariba Bahrami Boodelalou, Z. Fakhari, and Majid Nili Ahmad Abadi. "Designing and modeling of an index finger exoskeleton in interaction with post-stroke patients' hand." 22nd Iranian Conference on Biomedical Engineering (ICBME), Tehran.
- 6) Ali Mahdavi, Fariba Bahrami Boodelalou, and M. Janahmadi. "Analysis of impaired LTP in schizophrenia using an extended mathematical model of a tripartite synapse." the 22nd Iranian Conference on Biomedical Engineering (ICBME), Tehran.

- 7) M. Emadi Andani, Ali Mahdavi, Fariba Bahrami Boodelalou, and M. Fiorio. "Placebo-induced changes in behavioural parameters during gait: a pilot study." 22nd Iranian Conference on Biomedical Engineering (ICBME), Tehran.
- 8) Ali Mahdavi, M. Mirjalili, Fariba Bahrami Boodelalou, and M. Janahmadi. "Hypofunction of NMDA receptors due to the hyperactivation of dopamine receptors in the hippocampal synapses of schizophrenia based mathematical model." 22nd Iranian Conference on Biomedical Engineering (ICBME), Tehran.
- 9) Milad Shojaie, and Fariba Bahrami Boodelalou. "6. Seizure prediction using a hippocampal circuitry model developed based on a tripartite synapse structure." 24th Iranian Conference on Electrical Engineering (ICEE2016), Shiraz.
- 10) M. Shojaee, and Fariba Bahrami Boodelalou. "Seizure prediction using a hippocampal circuitry model developed based on tripartite synapse structure." the 24th Iranian Conference on Electrical Engineering (ICEE2016), Tehran.
- 11) Ali Mahdavi, Fariba Bahrami Boodelalou, and Mahyar Janahmadi. "Studying the effect of dysregulation of NMDA receptors function in schizophrenia." 22nd Iranian Conference on Electrical Engineering (ICEE2014), Tehran.
- 12) Farzaneh Danaie, Fariba Bahrami Boodelalou, and Mahyar Janahmadi. "Alzheimer's disease can cause epileptic seizure activity in a CA3-CA1 tripartite synapse: A computational study." 22nd Iranian Conference on Electrical Engineering (ICEE2014), Tehran.
- 13) Soheila Roohi Dehkordi, Fariba Bahrami Boodelalou, and Mahyar Janahmadi. "Computational study of the role of calcium in late long-term potentiation induction on the basis of tripartite synapse structure." 22nd Iranian Conference on Electrical Engineering (ICEE2014), Tehran.
- 14) Mohammadreza Mohagheghinejad, Fariba Bahrami Boodelalou, and Mahyar Janahmadi. "Conductance-based computational model of basal ganglia." 22nd Iranian Conference on Electrical Engineering (ICEE2014), Tehran.
- 15) Mehdi Borjkhani, Ali Mahdavi, and Fariba Bahrami Boodelalou. "A mathematical model for neuron astrocytes interactions in hippocampus during addiction." 21th Iranian Conference on Biomedical Engineering (ICBME2014), Tehran.

16) مهدی عرفانی، فریبا بهرامی بوده لالو و پرویز جبه دارمارالانی . "طراحی یک کنترل کننده FES فازی با در نظر گرفتن حرکات ارادی بیماران پاراپلژیک." هفتمین کنفرانس برق ایران، تهران.

17) مهران عمادی، فریبا بهرامی بوده لالو و پرویز جبه دارمارالانی . "پیش بینی حرکت برخاستن از روی صندلی با استفاده از دو روش پارامتریه کردن فضای جستجو." هفتمین کنفرانس برق ایران، تهران.

18) ش. کیهانی نژاد و فریبا بهرامی بوده لالو. "تنظیم محل گام در طی راه رفتن در برخورد با مانع مسطحی که از آغاز حرکت قابل رویت باشد." دوازدهمین کنفرانس مهندسی پزشکی ایران، تبریز.

19) پ. زمانی، ب. ویلیامز، حمید سلطانیان زاده و فریبا بهرامی بوده لالو. "استخراج حرکات پایه از دستخط فارسی افراد." چهاردهمین کنفرانس مهندسی پزشکی ایران، تهران.

20) و فریبا بهرامی بوده لالو. "مدلسازی یادگیری تقلیدی نوشتن حروف فارسی." پانزدهمین کنفرانس مهندسی پزشکی، مشهد.

21) مهدی مصدقی، بهراد دهقان، فریبا بهرامی بوده لالو و اشکان رحیمی کیان . "رتبه بندی اهداف و ابزارها برای تدوین برنامه راه بردی انجمن مهندسی پزشکی ایران." کنفرانس سلامت الکترونیکی و کاربردهای ICT در پزشکی اتزان، تهران.

22) لادن مهیمتیان و فریبا بهرامی بوده لالو. "مدلسازی کنترل حلقه باز حرکت ساکاد در حضور جسم گمرا کننده." هفدهمین کنفرانس مهندسی پزشکی، اصفهان.

23) مریم آقائی و فریبا بهرامی بوده لالو. "ارائه مدلی برای فرآیند توجه بر مبنای نظریه رقابت بایاسی با استفاده از سیگنال های بایاسی برگرفته از Saliency map." نوزدهمین کنفرانس مهندسی برق ایران، تهران.

راهنمایی پایان نامه

1) یادگیری و کنترل حرکت دست به صورت دینامیک بر مبنای نظریه نقطه تعادل EP H، حمید انصاری ارده، دانشگاه تهران، 1387/05/06

2) مدل سازی اثرات بیماری آلزایمر در فرآیند شکل دهی مسیر در سطح هیپو کمپ، شیوا قانای فراشاهی، دانشگاه تهران، 1392/03/11

3) بهینه سازی توام برنامه شیمی درمانی و ایمنی درمانی به منظور درمان سرطان با استفاده از مدلسازی ریاضی، میلاد قملاقی، دانشگاه تهران، 1395/04/14

مشاوره پایان نامه

1) طراحی کنترل کننده برای ناهمزمان سازی نوسانگرهای کوپل شده کاربرد در جمعیت نوسانگرهای نوری، غزل منتصری، دانشگاه تهران، 1392/09/30

فعالیت‌های اجرایی

- 1) عضو کمیته علمی بیستمین کنفرانس مهندسی برق ایران، 1390/02/25، 1391/02/25، ایران، تهران
- 2) سرپرست آزمایشگاه تجهیزات پزشکی، 1390/05/01، 1393/11/01، ایران، تهران
- 3) عضو کمیته علمی بیست و یکمین کنفرانس مهندسی برق ایران، 1391/02/25، 1392/02/25، ایران، تهران
- 4) دبیر کمیته علمی بیستمین کنفرانس مهندسی پزشکی ایران، 1391/08/22، 1392/12/29، ایران، تهران
- 5) عضو کمیته علمی بیست و یکمین کنفرانس مهندسی پزشکی ایران، 1392/08/22، 1393/08/22، ایران، تهران
- 6) ارزیابی علمی شرکتهای متقاضی استقرار در پارک علم و فن آوری دانشگاه تهران، 1393/01/01، ایران، تهران
- 7) عضو کمیته علمی بیست و دومین کنفرانس مهندسی پزشکی ایران، 1393/08/22، 1394/08/22، ایران، تهران
- 8) مدیر گروه مهندسی پزشکی، 1394/07/25، 1397/07/25، ایران، تهران
- 9) عضو کمیته علمی بیست و سومین کنفرانس مهندسی پزشکی ایران، 1394/08/22، 1395/08/22، ایران، تهران
- 10) عضو کمیته علمی بیست و چهارمین کنفرانس مهندسی پزشکی ایران، 1395/08/30، 1396/08/30، ایران، تهران
- 11) عضو کمیته علمی بیست و پنجمین کنفرانس مهندسی پزشکی ایران، 1396/09/30، 1397/09/30، ایران، قم

مدیر مسئولی ، سردبیری و ...

- 1) نشریه علمی پژوهشی امیرکبیر، علمی پژوهشی، 1396/03/01، 1399/03/01، _____

عضویت در مجامع ملی و بین المللی

- 1) انجمن مهندسی پزشکی ایران، عضو هیات ممیزه، ملی، 761/10/11، 767/10/12