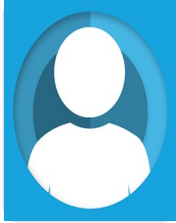




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Citations (Scopus):  
**257**

### Supervised PhD Theses

#	Thesis title	By	Date
1	Design, modeling & fabrication of a ECIS sensor for evaluating the effect of scaffold	Masoomeh Ashoorirad & Ali Fallah	July 2020

### Supervised MSc Theses

#	Thesis title	By	Date
1	wheelchair online control based on motor imageryEEG signals	Morvarid Ghafouri & Ali Fallah	January 2021
2	Use the Fractional Fourier Transform for Feature Extraction from Retina Images to Diagnose Glaucoma in Diabetic Retinopathy Patients	Mahsa Arab & Ali Fallah	August 2020
3	Mitral Valve Prolapse Detection Using Heart Sound Signal (PCG	Mahtab Mehrabbeik & Ali Fallah	August 2020
4	Application of SSVEP-based brain-computer interface for FES-cycling rehabilitation	Samane Kazemi & Ali Fallah	February 2020
5	Segmentation of myocardial muscle in 2D-echocardiography to detect cardiac malformations	Soraya Ilani & Ali Fallah	March 2019
6	improvement in simulating control of reaching rehabilitation by analyzing ADLs and determining the class and anticipating movement	Elham Zargari Pour & Ali Fallah	February 2019

7	Segmentation of CT images in order to improve contouring in CT planning for prostate radiation therapy	Seyedeh Mehrnaz Hosseininejad Hassankiadeh & Ali Fallah	February 2019
8	Diagnosis of Parkinsons disease and classification of it based on MDS-UPDRS criteria using acceleration data	Saeed Arabzadeh & Ali Fallah	July 2018
9	Evaluation of tricuspid regurgitation with using PCG signal	Ahmad Rujoie & Ali Fallah	July 2018
10	Utilization of heart sound signal (PCG) to assessment of aortic stenosis severity	Farzaneh Firoozbakht & Ali Fallah	July 2018
11	Healthy human authentication using ECG signal segmentation and chaotic feature extraction )	Fatemeh Parastesh Karegar & Ali Fallah	May 2017
12	Applying EEG motor imagery signals to create necessary commands for controlling wheelchair	Mohammadreza Edalati Sharbaf & Ali Fallah	February 2017
13	Using Fractional Functions for Healthy Electroencephalogram based Authentication	Sarineh Keshishzadeh & Ali Fallah	August 2016
14	improvement in simulating control of reaching rehabilitation with muscular synergy	Elaheh Norouzi Ghahi & Ali Fallah	February 2016
15	Analysis of SEMGs and joint angles of hand to achieve synergetic reaching movement	Payman Azaripasand & Ali Fallah	July 2015
16	Human identification and verification based on eye iris features	Ehsan Vosoughnia & Ali Fallah	October 2014
17	mUSCULAR DISORDER RECOGNITION BASEDON EMG USING NEURAL NETWORK	Bita Mokhlesabadifarrahani & Ali Fallah	May 2013
18	contrl of reanimation of paralyzed arm for reaching movement	Negin Hesam Shariati & Ali Fallah	September 2012
19	Simulation and control of FES cycling system by using EMS signal as fatigue detector	Sanaz Khosravani & Ali Fallah	July 2012
20	Modeling and Control of Human Arm and Simulation in the Virtual Reality World	Shoeib Shirinpour & Ali Fallah	February 2009
21	Control the Pressure and Possition of robot by useing of movement of mans hand	Hossein Hassanpoor & Ali Fallah	January 2009
22	"Adaptive Neurofuzzy Control of a 2-Link Flexible Arm	Sajjad Jafari & Ali Fallah	May 2008
23	Determining insulin infusion rate for glucose regulation regulation in type 1 diabetic patients	Laleh Karkar & Ali Fallah	April 2008
24	IMULATION AND MODELING OF AN INTERNAL SWITCHING SYSTEM FOR EYE MOVEMENT IN BRIAN	Amir Rah Afrooz & Ali Fallah	April 2007
25	CONTROL OF SINGLE-LINK FLEXIBLE ARM USING SELF-FEEDBACK NEURAL NETWORK STRUCTURES	Mahmood Amiri & Ali Fallah	March 2007
26	MULTIPLE MODEL-BASED REINFORCEMENT LEARNING FOR CONTROLLING A 20 LINKFLEXIBLE ARM	Mohammad Reza Tajvidi & Ali Fallah	February 2007
27	Control of a Flexible-Link Robot Arm Using Neuro-Fuzzy Pseudo Inverse	Samaneh Sarraf Shirazai & Ali Fallah	February 2006

## Journal Papers

## Portal Records

- 1 Masoomeh Ashoorirad, Ali Fallah, S.Mehrdad Saviz, "Measuring and assessment of impedance spectrum of collagen thin films in the presence of deionized water", *JOURNAL OF MOLECULAR LIQUIDS*, December 2020 Vol. 320, Num. 114488, Page 1-9, December 2020,
- 2 Vida Mehdizadehfar, Farnaz Ghassemi, Ali Fallah, Iman Mohammad-Rezazadeh, Hamizreza Pouretamad, "Brain Connectivity Analysis in Fathers of Children with Autism", *COGNITIVE NEURODYNAMICS*, August 2020 Vol. 0, Num. 0, Page 1-13, August 2020,
- 3 Seyedeh Somayeh Naghibi, Ali Fallah, Ali Maleki, Farnaz Ghassemi, "Elbow angle generation during activities of daily living using a submovement prediction model", *BIOLOGICAL CYBERNETICS*, June 2020 Vol. 114, Num. 1, Page 389-402, June 2020,
- 4 Vida Mehdizadehfar, Farnaz Ghassemi, Ali Fallah, Hamidreza Pouretamad, "EEG Study of Facial Emotion Recognition in the Fathers of Autistic Children", *BIOMEDICAL SIGNAL PROCESSING AND CONTROL*, February 2020 Vol. 56, Num. 2020, Page 1-9, February 2020,
- 5 Masoomeh Ashoorirad, S.Mehrdad Saviz, Ali Fallah, "On the electrical properties of collagen macromolecule solutions: Role of collagen-water interactions", *JOURNAL OF MOLECULAR LIQUIDS*, December 2019 Vol. 300, Num. 1, Page 112344-112360, December 2019,
- 6 Seyedeh Somayeh Naghibi, Farnaz Ghassemi, Ali Maleki, Ali Fallah, "The Effects of Upper Limb Motor Recovery on Submovement Characteristics among the Patients with Stroke: A Meta Analysis", *PM&R*, November 2019 Vol. 0, Num. 0, Page 1-10, November 2019,
- 7 Seyedeh Somayeh Naghibi, Ali Fallah, Ali Maleki, Farnaz Ghassemi, "Planar Reaching Movement Generation Using Submovement Prediction Model", *Iranian Journal of Biomedical Engineering*, October 2019 Vol. 12, Num. 3, Page 341-350, October 2019,
- 8 Maryam Mehdizadeh Dastjerdi, Ali Fallah, Saeid Rashidi, "Fast and Precise Estimation of Displacement and Strain Fields in Elastography Imaging Technique", *Modares Mechanical Engineering*, February 2019 Vol. 19, Num. 2, Page 303-315, February 2019,
- 9 Maryam Mehdizadeh Dastjerdi, Ali Fallah, Saeid Rashidi, "An Iterative Method for Estimating Nonlinear Elastic Constants of Tumor in Soft Tissue from Approximate Displacement Measurements", *Journal of Healthcare Engineering*, January 2019 Vol. 0, Num. 0, Page 1-12, January 2019,
- 10 Vida Mehdizadehfar, Farnaz Ghassemi, Ali Fallah, "Brain Connectivity Reflected in EEG Coherence in Individuals with Autism: A Meta-Analysis", *Basic and Clinical Neuroscience*, December 2018 Vol. 0, Num. 0, Page 1-24, December 2018,
- 11 Maryam Mehdizadeh Dastjerdi, Ali Fallah, Saeid Rashidi, "Efficient Sensitivity Based Reconstruction Technique to Accomplish Breast Hyperelastic Elastography", *Biomed Research International*, November 2018 Vol. 0, Num. 0, Page 1-16, November 2018,
- 12 Mona Farokhzadi, Ali Maleki, Ali Fallah, Said Rashidi, "Online Estimation of Elbow Joint Angle Using Upper Arm Acceleration: A Movement Partitioning Approach", *Journal of Biomedical physics & Engineering*, September 2017 Vol. 7, Num. 3, Page 305-314, September 2017,
- 13 Mona Farokhzadi, Ali Maleki, Ali Fallah, Farshad Almasganj, Saeid Rashidi, "AN EFFICIENT HIERARCHICAL STRUCTURE FOR RECOGNITION OF THE REACHING MOVEMENTS IN 3D SPACE", *BIOMEDICAL ENGINEERING-APPLICATIONS BASIS COMMUNICATIONS*, September 2016 Vol. .28, Num. 4, Page 1-10, September 2016,
- 14 Sara Abaspour, Ali Fallah, Maria Linden, Hamid Gholamhosseini, "A novel approach for removing ECG interferences from surface EMG sign als using a combined ANFIS and Wavelet", *JOURNAL OF ELECTROMYOGRAPHY AND KINESIOLOGY*, February 2016 Vol. 0, Num. 26, Page 52-59, February 2016,
- 15 Saeid Rashidi, Ali Fallah, Farzad Towhidkhal, "Local Features Analysis of On-Line Signature Using Modified Distance of DTW Local Features Analysis of On-Line Signature Using Modified Distance of DTW", *INTERNATIONAL JOURNAL OF COMPUTATIONAL METHODS*, May 2015 Vol. 12, Num. 3, Page 1-18, May 2015,
- 16 Hossein Hassanpoor, Ali Fallah, Mohsin Raza, "Mechanisms of hippocampal astrocytes mediation of spatial memory and theta rhythm by gliotransmitters and growth factors", *CELL BIOLOGY INTERNATIONAL*, July 2014 Vol. 38, Num. 8, Page 1-12, July 2014,

- 17 Hossein Hassanpoor, Heydari Mr, Ali Fallah, "TNF-Alpha Secretion by Glial Cells and It's Role in Learning: A Modeling Approach", IRANIAN JOURNAL OF PEDIATRICS, May 2014 Vol. 24, Num. 1, Page 27-28, May 2014,
- 18 Sohrab Barimani, Ali Maleke, Ali Fallah, "Influence of Mechanical Terms in Quantifying Muscle Synergy during Cycling for FES Rehabilitation Applications", , April 2014 Vol. 8, Num. 1, Page 101-111, April 2014,
- 19 Ehsan Tahami, Amir Homayoun Jafari, Ali Fallah, "LEARNING TO CONTROL THE THREE-LINK MUSCULOSKELETAL ARM USING ACTOR-CRITIC REINFORCEMENT LEARNING ALGORITHM DURING REACHING MOVEMENT", BIOMEDICAL ENGINEERING-APPLICATIONS BASIS COMMUNICATIONS, April 2014 Vol. 26, Num. 5, Page 1-9, April 2014,
- 20 Sara Abaspour, Ali Fallah, Ali Maki, "Removing ECG Artifact from the Surface EMG Signal Using Adaptive Subtraction Technique", Journal of Biomedical physics & Engineering, March 2014 Vol. 4, Num. 1, Page 33-38, March 2014,
- 21 Sara Abaspour, Ali Fallah, "A Combination Method for Electrocardiogram Rejection from Surface Electromyogram", The Open Biomedical Engineering Journal, March 2014 Vol. 8, Num. 399970, Page 13-19, March 2014,
- 22 Maryam Mehdizadeh Dastjerdi, Ali Fallah, Saeid Rashidi, "PRECISE NONINVASIVE QUANTIFICATION OF MECHANICAL PROPERTIES OF SOFT TISSUE THROUGH VIBRATION", Indian Journal of Scientific Research, March 2014 Vol. 1, Num. 2, Page 702-712, March 2014,
- 23 Saeid Rashidi, Ali Fallah, Farzad Towhidkhal, "Authentication Based on Pole-zero Models of Signature Velocity", Journal of Medical Signals and sensors, October 2013 Vol. 3, Num. 4, Page 195-208, October 2013,
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- 26 Mohsin Raza, Javad Razjouyan, Shahriar Gharibzadeh, Ali Fallah, Amirreza Mohammadreza, "Application of the fuzzy logic concept in the multiple sclerosis functional composite for scoring the progress of multiple sclerosis.", JOURNAL OF NEUROPSYCHIATRY AND CLINICAL NEUROSCIENCES, April 2013 Vol. 25, Num. 2, Page 45-45, April 2013,
- 27 Ehsan Tahami<sup>1</sup>, Amir Homayoun Jafari , Ali Fallah, "APPLICATION OF AN EVOLUTIONARY ACTOR-CRITIC REINFORCEMENT LEARNING METHOD FOR THE CONTROL OF A THREE-LINK MUSCULOSKELETAL ARM DURING A REACHING MOVEMENT", JOURNAL OF MECHANICS IN MEDICINE AND BIOLOGY, March 2013 Vol. 13, Num. 2, Page 1-16, March 2013,
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- 29 Saeid Rashidi, Ali Fallah, Farzad Towhidkhal, "Feature extraction based DCT on dynamic signature verification", SCIENTIA IRANICA TRANSACTION D-COMPUTER SCIENCE & ENGINEERING AND ELECTRICAL ENGINEERING, December 2012 Vol. 19, Num. 6, Page 1810-1819, December 2012,
- 30 Hossein Hassanpoor, Ali Fallah, Mohsin Raza, "New role for astroglia in learning: Formation of muscle memory", MEDICAL HYPOTHESES, October 2012 Vol. 79, Num. 6, Page 770-773, October 2012,
- 31 Saeid Rashidi, Ali Fallah, Farzad Towhidkhal, "": Feature Extraction Based DCT on dynamic signature verification", SCIENTIA IRANICA TRANSACTION D-COMPUTER SCIENCE & ENGINEERING AND ELECTRICAL ENGINEERING, August 2012 Vol. 5, Num. 1, Page 1-10, August 2012,
- 32 Negin Hesam Shariati, Ali Maleki, Ali Fallah, "Genetic Feedforward-Feedback Controller for Functional Electrical Stimulation Control of Elbow Joint Angle", Journal of Biomedical physics & Engineering, April 2012 Vol. 2, Num. 1, Page 16-26, April 2012,
- 33 Saeid Rashidi, Ali Fallah, Farzad Towhidkhal, "Dynamic signature verification and authentication based on extracting the most stable sign patterns Segmentation", , March 2012 Vol. 9, Num. 1, Page 23-33, March 2012,
- 34 Javad Razjouyan, Shahriar Gharibzadeh, Ali Fallah, Omid Khayat, Mitra Ghergherehchi, Hossein Afarideh, Mehdi Moghadasi, "A Neuro-fuzzy based model for accurate estimation of the Lyapunov exponents of an unknown dynamical system", INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS, February 2012 Vol. 22, Num. 3, Page 1-17, February 2012,

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- 38 Saeed Rashidi, Ali Fallah, Farzad Towhidkha, "QQ", , September 2010 Vol. 4, Num. 2, Page 12-17, September 2010,
- 39 Javad Razjouyan, Shahriar Gharibzadeh, Ali Fallah, Abtin Khodadadi, "A Revisited View of the Paced Auditory Serial Addition Test (PASAT) in Multiple Sclerosis", JOURNAL OF NEUROPSYCHIATRY AND CLINICAL NEUROSCIENCES, September 2010 Vol. 22, Num. 4, Page 38-38, September 2010,
- 40 Saeid Rashidi, Mohammadreza Hashemigolpayegany, Ali Fallah, Farzad Towhidkha, "Model law governing the geometry and motion in graphical models skillful hands", , June 2010 Vol. 4, Num. 1, Page 33-44, June 2010,
- 41 Javad Razjouyan, Shahriar Gharibzadeh, Ali Fallah, "Cellular Automaton: A Key Approach in Modeling the Outer Plexiform Layer", JOURNAL OF NEUROPSYCHIATRY AND CLINICAL NEUROSCIENCES, January 2010 Vol. 22, Num. 1, Page 35-35, January 2010,
- 42 Javad Razjouyan, Shahriar Gharibzadeh, Ali Fallah, "Organizational role of retina horizontal cells", JOURNAL OF NEUROPSYCHIATRY AND CLINICAL NEUROSCIENCES, October 2009 Vol. 21, Num. 4, Page 479-480, October 2009,
- 43 Ali Maleki, Ali Fallah, "The use of kinematics synergy for controlling functional electrical stimulation of reaching movements", , March 2009 Vol. 20, Num. 0, Page 69-77, March 2009,
- 44 Amir Rah Afrooz, Ali Fallah, Amir Homayoun Jafari, Fatemeh Bakouie, Sareh Zندهrouh Kermani, Shahriar Gharibzadeh, "Saccadic and smooth pursuit eye movements: Computational modeling of a common inhibitory mechanism in brainstem", , December 2008 Vol. , Num. 448, Page 0-0, December 2008,
- 45 Laleh Karkar, Ali Fallah, Shahriar Gharibzadeh, Fathollah Moztarzadeh, "Application of Fuzzy Logic Controller for Intensive Insulin Therapy in Type 1 Diabetic Mellitus Patients by Subcutaneous Route", , September 2008 Vol. , Num. 9, Page 0-0, September 2008,
- 46 , Mohammad Bagher Menhaj, Ali Fallah, "Stability Analysis of Self -Feedback Neural Network Structures", , May 2007 Vol. 0, Num. 0, Page 0-0, May 2007,
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- 50 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,
- 51 [en-name N/A], Ali Fallah, Ramina Mikaili, "Control of the electric motor in cybernetic arm", , February 1991 Vol. , Num. , Page 0-0, February 1991,

## Conference Papers

- 1 Mahtab Mehrabbeik, Saeid Rashidi, Ali Fallah, Elaheh Rafiei Khoshnood, "Computerized Diagnosis of the Prolapsed Mitral Valve Using Heart Sound Signal ", Iranian conference on Biomedical Engineering (ICBME 2020), November 2020
- 2 Mahsa Arab, Saeid Rashidi, Ali Fallah, "Automated Diagnosis of Glaucoma by Using 1-D Retina Images ", 27 th National and 5 th International Iranian conference on Biomedical Engineering (ICBME 2020), November 2020
- 3 Maryam Mehdizadeh Dastjerdi, Pooya Tahmasebi, Ali Fallah, Saeid Rashidi, "Estimation of Linear and Nonlinear Elastic Parameters of Prostate Tumors Using Artificial Neural Networks ", Twenty-seventh National and fifth International Iranian Conference on Biomedical Engineering, November 2020
- 4 Vida Mehdizadehfar, Farnaz Ghassemi, Ali Fallah, "Investigating the Autistic-like Traits Reflected in the Brain Connectivity of Fathers of Individuals with Autism ", 4th Iranian Symposium on Brain Mapping Updates, July 2020
- 5 Farzaneh Firoozbakht, Ali Fallah, Saeid Rashidi, Elaheh Rafiei Khoshnood, "Abnormal heart sound diagnosis based on phonocardiogram signal processing ", (26th Iranian Conference on Electrical Engineering(ICEE2018, May 2018
- 6 Ahmad Rujoie, Ali Fallah, Saeid Rashidi, Elaheh Rafiei Khoshnood, "Determining the severity of tricuspid regurgitation by phonocardiogram signal using cepstrum features and support vector machine ", THE THIRD INTERNATIONAL CONFERENCE ON INTELLIGENT DECISION SCIENCE, May 2018
- 7 Sarineh Keshishzadeh, Ali Fallah, Saeid Rashidi, "Electroencephalogram based Biometrics: A Fractional Fourier Transform Approach ", 2018 2nd International Conference on Biometrics Engineering and Applications(ICBEA, May 2018
- 8 Seyedeh Somayeh Naghibi, Ali Maleki, Ali Fallah, Farnaz Ghassemi, "A Modified Method of Submovement Decomposition Based on Velocity Profile and Endpoint Position ", 24th National & 2th International Iranian Conference on Biomedical Engineering, November 2017
- 9 Fatemeh Parastesh Karegar, Ali Fallah, Saeid Rashidi, "ECG based human authentication with using generalized hurst exponent ", 25th Iranian conference on Electrical Engineering, May 2017
- 10 Vida Mehdizadehfar, Farnaz Ghassemi, Ali Fallah, "Analysis of Brain Connectivity in ADHD/Normal Participants: An EEG Study ", seventh International Conference of Cognitive Science - ICCS-2017, April 2017
- 11 Mohammadreza Edalati Sharbaf, Ali Fallah, Saeid Rashidi, "Shrinkage Estimator based Common Spatial Pattern for Multi-Class Motor Imagery Classification by Hybrid Classifier ", 3rd International Conference on Pattern Recognition & Image Analysis, April 2017
- 12 Fatemeh Parastesh Karegar, Ali Fallah, Saeid Rashidi, "Using recurrence quantification analysis and generalized hurst exponents of ECG for human authentication ", 2nd Conference on Swarm Intelligence and Evolutionary Computation, March 2017
- 13 Vida Mehdizadehfar, Farnaz Ghassemi, Ali Fallah, "Classification of Autistic and Typical Children Using Supervised Learning of Brain Connectivity Measures ", 5th basic and clinical neuroscience congress 2016, December 2016
- 14 Vida Mehdizadehfar, Farnaz Ghassemi, Ali Fallah, "Analysis of Brain Connectivity Patterns in Autistic Children During Watching Emotional Faces ", 2016 23rd Iranian Conference on Biomedical Engineering and 2016 1st International Iranian Conference on Biomedical Engineering (ICBME), November 2016
- 15 Vida Mehdizadehfar, Farnaz Ghassemi, Ali Fallah, "Analysis of Effective Connectivity in Autistic and normal Children During Watching Emotional states ", The 3rd Iranian Conference on Bioelectromagnetics -ICBEM2016, August 2016
- 16 Sarineh Keshishzadeh, Ali Fallah, Saeid Rashidi, "Improved EEG based human authentication system on large dataset ", The 24th Iranian Conference on Electrical Engineering (ICEE 2016), May 2016
- 17 Sarineh Keshishzadeh, Ali Fallah, Saeid Rashidi, "Non-linear EEG Feature Extraction for the Human Authentication ", The 21th Iranian Conference on Computer (CSICC 2016), March 2016
- 18 Elaheh Norouzi Ghahi, Ali Fallah, Ali Maleki, "Feedforward Control of Elbow Joint in Four Degree of Freedom Arm Model for Reaching Rehabilitation in Three Dimensional Space ", 3th National and First International Conference on Applied Researched in Electrical, Mechanical and Mechatronic, February 2016
- 19 Maryam Mehdizadeh Dastjerdi, Ali Fallah, Saeid Rashidi, "Improvement of In-vivo Detection of Brain Abnormalities Using Nonlinear Constitutive Model ", Fourth Basic and Clinical Neuroscience Congress 2015, December 2015

- 20 Payman Azaripasand, Ali Maleki, Ali Fallah, "Classification of ADLs Using Muscle Activation Waveform Versus Thirteen EMG Features ", (22nd Iranian Conference of Biomedical Engineering(ICBME, November 2015
- 21 Maryam Mehdizadeh Dastjerdi, Ali Fallah, Saeid Rashidi, "Detection of Lesions in Soft Tissues Based on Nonlinear Constitutive Model ", (22nd Iranian Conference of Biomedical Engineering(ICBME, November 2015
- 22 Elaheh Norouzi Ghahi, Ali Maleki, Ali Fallah, "Implementation of the model simulation of four degrees of freedom motion control supply rehabilitation in three-dimensional space ", (22nd Iranian Conference of Biomedical Engineering(ICBME, November 2015
- 23 Payman Azaripasand, Ali Maleki, Ali Fallah, "The Extraction of Time-Varying Muscle Synergies During Hand-Reaching Movement With a K-Means Assisted Approach ", 23rd Iranian Conference on Electrical Engineering, May 2015
- 24 Hossein Hassanpoor, Ali Fallah, Amir H0mayon Jafari, Mohsen Reza Heydry, "The Role of Astrocyte in Pattern Separation in the Hippocampus:A Modeling Approach ", (The Sixth International Conference of Cognitive Science (ICCS 2015, April 2015
- 25 Maryam Mehdizadeh Dastjerdi, Ali Fallah, Saeid Rashidi, "Modeling of Medical Imaging Technique Vibroelastography ", Eleventh Iranian Conference of Medical Physics, November 2014
- 26 Ehsan Vosoughnia, Ali Fallah, Saeid Rashidi, "A new method to detect the iris boundaries in iris biometric systems ", Iranian conference on biomedical engineering, November 2014
- 27 Maryam Mehdizadeh Dastjerdi, Ali Fallah, Saeid Rashidi, "Modeling of the Response of Soft Tissue to Compression and Vibration ", Eleventh Iranian Conference of Medical Physics, November 2014
- 28 Maryam Mehdizadeh Dastjerdi, Ali Fallah, Saeid Rashidi, "Modeling of Static Elastography Technique Using Finite Element Method ", Eleventh Iranian Conference of Medical Physics, November 2014
- 29 Maryam Mehdizadeh Dastjerdi, Ali Fallah, Saeid Rashidi, "PRECISE NONINVASIVE QUANTIFICATION OF MECHANICAL PROPERTIES OF SOFT TISSUE THROUGH VIBRATION ", The First National Conference on Mechanical Engineering of Iran, February 2014
- 30 Mona Farokhzadi, Ali Maleki, Ali Fallah, Saeed Rashidi, "Online estimation of the elbow joint angle using upper arm accelerations based on partitioning ADLs into the movement phases ", (20th Iranian Conference on Biomedical Engineering(ICBME 2013, December 2013
- 31 Mona Farokhzadi, Ali Maleki, Ali Fallah, Saeed Rashidi, "Recognition of reaching movements in the spherical subspace of hand sweeping region based on the information of upper arm and elbow kinematics ", (20th Iranian Conference on Biomedical Engineering(ICBME 2013, December 2013
- 32 Sohrab Barimani, Ali Maleki, Ali Fallah, "Quantification of muscle synergy during FES cycling for rehabilitation applications ", (20th Iranian Conference on Biomedical Engineering(ICBME 2013, December 2013
- 33 Hossein Hassanpoor, Mohsen Reza Hyderi, Ali Fallah, "Effect of BDNF and glutamate secretion by astrocyte on learning and memory in hippocampus: A modeling approach ", the Basic and Clinical Neuroscience Congress 2013, December 2013
- 34 Hossein Hassanpoor, Ali Fallah, Mohsin Raza, "Effect of BDNF Secretion by Astrocyte on Learning and Memory:A Modeling Approach ", (2nd International Conference on Advances in Biomedical Engineering 2013 (ICABME13, September 2013
- 35 Hossein Hassanpoor, Ali Fallah, Mohsin Raza, "Modeling Inhibitory and Excitatory Effect of Astroglia in Synaptic Plasticity and Learning ", IEEE EMBS Conference on Biomedical Engineering & Sciences 2012 (IECBES 2012), December 2012
- 36 Saeid Rashidi, Ali Fallah, Farzad Towhidkhan, "Chaos in Dynamic Handwritten Signature ", 19th Iranian Conference on BioMedical Engineering)-(ICBME2012), December 2012
- 37 Hossein Hassanpoor, Ali Fallah, Giti Torkaman, Alireza Arghavan, "A Fuzzy Controller Indenter Capable of Simulating Pressure Sore on the Guinea Pigs Skin During a Day ", 19th Iranian Conference on BioMedical Engineering)-(ICBME2012), December 2012

- 38 Saeid Rashidi, Ali Fallah, Farzad Towhidkhah, "Authentication Based on Signature Verification Using Position, Velocity, Acceleration and Jerk Signals ", 9th International ISC Conference on Information Security and Cryptology, September 2012
- 39 Saeid Rashidi, Ali Fallah, Farzad Towhidkhah, "KNN and FKNN Based Modified DTW in Dynamic Signature Verification ", 20th Iranian Conference on Electrical Signature Verification, May 2012
- 40 Sara Abaspour, Ali Fallah, علی مالکی, "A Comparison of Adaptive Filter and Artificial Neural Network Results in Removing Electrocardiogram Contamination from Surface EMGs ", 20th Iranian Conference on Electrical Engineering, May 2012
- 41 Sara Abaspour, Ali Fallah, Ali Maleki, "A Comparison of Adaptive Neuro-fuzzy Inference System and Real-time Filtering in Cancellation ECG Artifact from Surface EMGs ", 20th Iranian Conference on Electrical Engineering, May 2012
- 42 Saeid Rashidi, Ali Fallah, Farzad Towhidkhah, "Signature classification based on global and local features with using MLD algorithm ", 17th CSI Computer Conference, March 2012
- 43 Saeid Rashidi, Ali Fallah, Farzad Towhidkhah, "Dynamic Signature Verification Based on DCT of Local Features ", 18th Iranian Conference on BioMedical Engineering, December 2011
- 44 Negin Hesam Shariati, Ali Maleki, Ali Fallah, "Genetic-PID Control of Elbow Joint Angle for Functional Electrical Stimulation: A Simulation Study ", The 2nd International Conference on Control, Instrumentation and Automation, December 2011
- 45 Negin Hesam Shariati, Ali Maleki, Ali Fallah, "Feedforward-Feedback PID Control of Elbow Joint Angle for Functional Electrical Stimulation: A Simulation Study ", The 2nd International Conference on Control Instrumentation and Automation, December 2011
- 46 Mahnaz Ashegh Toosi, Ali Fallah, Ali Maleki, "Estimation and Anticipation of Elbow Joint Angle from Shoulder Data during Planar Movements ", The 2nd International Conference on Control Instrumentation and Automation, December 2011
- 47 Mona Farokhzadi, Ali Maleki, Ali Fallah, "Partitioning the Movements During Activities Daily Living and Clustering the Components Using Accelerometer Data ", The 1st MEFOMP International Conference of Medical Physics, November 2011
- 48 Negin Hesam Shariati, Ali Maleki, Ali Fallah, "Genetic-PID Control of Elbow Joint Angle for Functional Electrical Stimulation: A Simulation Study ", The 1st MEFOMP International Conference of Medical Physics, November 2011
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## Taught Courses

#	Course title	Description	Headlines	Date
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1	System Analysis	Concepts and methods of system and signal analysis and its application		Spring 2021
2	Electrical Circuits (II)	three-phase balanced systems, including Laplace transforms applications for solving circuit problems.The course has been designed to introduce fundamental principles of circuit theory commonly used in engineering research and science applications. T		Spring 2021
3	Electric. Circuits (I)	The course has been designed to introduce fundamental principles of circuit theory commonly used in engineering research and science applications. Techniques and principles of electrical circuit analysis including basic concepts such as voltage, curr		Fall 2020
4	Engineering Math.	.(Introduction to Advanced Engineering Mathematics for overcoming the problems in the world of engineering(The course consists of three sessions per week for one and a quarter hours		Fall 2020
5	System Analysis	Concepts and methods of system and signal analysis and its application		Spring 2020
6	Electrical Circuits (II)	three-phase balanced systems, including Laplace transforms applications for solving circuit problems.The course has been designed to introduce fundamental principles of circuit theory commonly used in engineering research and science applications. T		Spring 2020
7	Electric. Circuits (I)	The course has been designed to introduce fundamental principles of circuit theory commonly used in engineering research and science applications. Techniques and principles of electrical circuit analysis including basic concepts such as voltage, curr		Fall 2019
8	Engineering Math.	.(Introduction to Advanced Engineering Mathematics for overcoming the problems in the world of engineering(The course consists of three sessions per week for one and a quarter hours		Fall 2019

## Inventions/Patents

#	Invention title	Reg. number	Country	contributors	Reg. date	Exp. date
1	Designing sensor Kynmatyky information during limb movement	38705322			2008/07/1	2028/07/1