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h-index (Scopus):
9

Citations (Scopus):
179

Supervised MSc Theses

#	Thesis title	By	Date
1	Modeling and Position and Force Control of 1-Dof Inflatable Arm	Ali Jafary Fesharaki & Mohammadali Ahmadi Pajouh	September 2021
2	Analytical modeling of tendon base continuous passive motion exoskeleton robot for rehabilitation hand fingers	Elaheh Kafashi & Mohammadali Ahmadi Pajouh	February 2020
3	Design sensing system and experimental modelling of soft actuator for rehabilitation of finger	Shokoufeh Davarzani & Mohammadali Ahmadi Pajouh	February 2020
4	Hand localization in 3D space using image processing methods	Zahra Akramzadeh & Mohammadali Ahmadi Pajouh	February 2020
5	Design, Fabrication and Modeling of a Soft Actuator and its Application for Rehabilitation of Finger	Mansooreh Shoaraye Nejati & Mohammadali Ahmadi Pajouh	September 2019
6	Impedance Control of hand Rehabilitation Robot	Mohammad Khoshnazar & Mohammadali Ahmadi Pajouh	June 2019
7	Development of design and manufacture continuous passive motion exoskeleton robot for rehabilitation hand fingers	Benyamin Sarikhani & Mohammadali Ahmadi Pajouh	February 2019
8	Modelling the Center of Center of Pressure dynamics of a standing person while performing dual-task (postural control and cognitive task)	Fatemeh Delavari & Mohammadali Ahmadi Pajouh	October 2018
9	Design and Manufacture of Continuous Passive Motion Equipment for the Index Finger	Zahra Arjmandi & Mohammadali Ahmadi Pajouh	February 2018

10	Reflex response changes modeling after motor task adaptation in healthy subjects	Seyedeh Ensiyeh Hashemi & Mohammadali Ahmadi Pajouh	February 2018
11	Design and Implementation of a Functional Electrical Stimulation (FES) Device to Study Stimulation Effects on Hoffmanns reflex	Mehran Mehraban Rad & Mohammadali Ahmadi Pajouh	February 2018
12	Mechatronics Design and Implementation of an Energy Harvesting Mechanism in an Ankle-Foot Prosthesis in order to improve walking	Seyyed Sina Mousavi & Mohammadali Ahmadi Pajouh	November 2017
13	Analyzing functional connectivity after rhythmic Audio Stimulation	Tirdad Seifi Ala & Mohammadali Ahmadi Pajouh	October 2017
14	Impedance Control of planar rehabilitation robot to study energy	Aliakbar Mohseninia & Mohammadali Ahmadi Pajouh	February 2017
15	Analyzing the existing mechanisms in an active prosthetic hand in order to optimize its performance	Ali Amirnasr & Mohammadali Ahmadi Pajouh	February 2017
16	Modeling and simulation of human movement in horizontal plane	Amir Mohamad Soleimani Yazdi & Mohammadali Ahmadi Pajouh	October 2016
17	Modeling and Simulation of Finger Kinematics Using EMG Signals	Vida Dadpour & Mohammadali Ahmadi Pajouh	July 2016
18	A Cellular Automata Model for V1 , V2 visual cortex electrical Activity Representation	Kian Shahi & Mohammadali Ahmadi Pajouh	July 2016
19	Design and implementation of 2 DOF force transducer for Estimation of Hand's force	Babak Azmoudeh & Mohammadali Ahmadi Pajouh	June 2016
20	Design and Implementation of Multi Electrode EMG Device	Hamed Dehesh & Mohammadali Ahmadi Pajouh	June 2016
21	Visual cortex coonectivity analysis using EEG signal	Fatemeh Zamanian Najafabadi & Mohammadali Ahmadi Pajouh	February 2016

Journal Papers

Portal Records

- 1 Elham Shamsi, Mohammadali Ahmadi Pajouh, Tirdad Seifi Ala, "Higuchi fractal dimension: An efficient approach to detection of brain entrainment to theta binaural beats", BIOMEDICAL SIGNAL PROCESSING AND CONTROL, March 2021 Vol. 68, Num. 1, Page 1-12, March 2021,
- 2 Elaheh Kafashi, Mohammadali Ahmadi Pajouh, Firooz Bakhtiari Nejad, "Modeling, Design, and Manufacture of Tendon-based Exoskeleton for Finger Rehabilitation", Iranian Journal of Biomedical Engineering, January 2021 Vol. 14, Num. 4, Page 311-320, January 2021,
- 3 Mohammadali Ahmadi Pajouh, Tirdad Seifi Ala, Fatemeh Zamanian Najafabadi, Hamidreza Namazi, Sajad Jafari, "FRACTAL-BASED CLASSIFICATION OF HUMAN BRAIN RESPONSE TO LIVING AND NON-LIVING VISUAL STIMULI", FRACTALS-COMPLEX GEOMETRY PATTERNS AND SCALING IN NATURE AND SOCIETY, October 2018 Vol. 26, Num. 5, Page 1-7, October 2018,
- 4 Peyman Gholami, Mohammadali Ahmadi Pajouh, Nabiolah Abolfathi, Ghassan Hamarneh, Mohammad Keyvanrad, "Segmentation and Measurement of Chronic Wounds for Bioprinting", IEEE Journal of Biomedical and Health Informatics, July 2018 Vol. 22, Num. 4, Page 1269-1277, July 2018,
- 5 Tirdad Seifi Ala, Mohammadali Ahmadi Pajouh, Ali Motie Nasrabadi, "Cumulative effects of theta binaural beats on brain power and functional connectivity", BIOMEDICAL SIGNAL PROCESSING AND CONTROL, February 2018 Vol. 42, Num. 1, Page 242-252, February 2018,

- 6 Fatemeh Yavari, Shirin Sadat Mahdavi, Farzad Towhidkhah, Mohammadali Ahmadi Pajouh, Hamed Ekhtiari, Mohammad Darini, "Cerebellum as a forward but not inverse model in visuomotor adaptation task: a tDCS-based and modeling study", *EXPERIMENTAL BRAIN RESEARCH*, December 2015 Vol. 0, Num. 0, Page 0-0, December 2015,
- 7 Fatemeh Yavari, Farzad Towhidkhah, Mohammadali Ahmadi Pajouh, Mohammad Darini, "The role of internal forward models and proprioception in hand position estimation", *JOURNAL OF INTEGRATIVE NEUROSCIENCE*, August 2015 Vol. 14, Num. 2, Page 1-16, August 2015,
- 8 Fatemeh Yavari, Farzad Towhidkhah, Mohammadali Ahmadi Pajouh, "Are fast/slow process in motor adaptation and forward/inverse internal model two sides of the same coin?", *MEDICAL HYPOTHESES*, September 2013 Vol. 81, Num. 4, Page 592-600, September 2013,

Conference Papers










Portal Records

- 1 Mehran Mehraban Rad, Mohammadali Ahmadi Pajouh, "Neuromuscular electrical stimulation to study frequency effects on H-reflex ", 25th national and 3rd international Conference on Biomedical Engineering, November 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 Zahra Arjmandi, Firooz Bakhtiari Nejad, Mohammadali Ahmadi Pajouh, "Design, Fabrication and Verification of Continuous Passive Motion Equipment for the index finger ", 25th national and 3rd international Conference on Biomedical Engineering, November 2018
- 4 Seyedeh Ensiyeh Hashemi, Mohammadali Ahmadi Pajouh, Elham Shamsi, "Modeling and simulation of EMG signal and H-Reflex in healthy human subject ", 25th national and 3rd international Conference on Biomedical Engineering, November 2018
- 5 Seyedeh Ensiyeh Hashemi, Mohammadali Ahmadi Pajouh, Elham Shamsi, "Does motor imagery task alter H-reflex in FCR muscle of the human hand? ", 25th national and 3rd international Conference on Biomedical Engineering, November 2018
- 6 Elham Shamsi, Mohammadali Ahmadi Pajouh, Tirdad Seifi Ala, "Investigating Nonlinear effects of Theta Binaural beats on Electroencephalogram using log energy entropy ", 2nd Iranian Symposium on Brain Mapping Updates, October 2018
- 7 Farnaz Eslam Jamal, Tirdad Seifi Ala, Mohammadali Ahmadi Pajouh, "The Effects of Binaural Beats on Reaction Time ", The Basic and Clinical Neuroscience Congress 2017, December 2017
- 8 Kowsar Mojtabayi, Amirreza Karimi, Tirdad Seifi Ala, Mohammadali Ahmadi Pajouh, "Improving Visual Working Memory in a N-back Task by Auditory Stimulation ", The Basic and Clinical Neuroscience Congress 2017, December 2017
- 9 Ali Davoodi Moqadam, Sajede Aghababaei, Tirdad Seifi Ala, Mohammadali Ahmadi Pajouh, "Enhancing Divided Attention by Sweeping Binaural Beats ", The Basic and Clinical Neuroscience Congress 2017, December 2017
- 10 Tirdad Seifi Ala, Mohammadali Ahmadi Pajouh, "Brain Entrainment Caused by Frequency-Locked Auditory Stimulation ", The Basic and Clinical Neuroscience Congress 2017, December 2017
- 11 Amir Mohamad Soleimani Yazdi, Mohammadali Ahmadi Pajouh, "Modeling and Simulation of Human arm movement in horizontal plain sing EMG and ANN ", 24th national and 2nd International Iranian Conference on Biomedical Engineering (ICBME), November 2017
- 12 Tirdad Seifi Ala, Mohammadali Ahmadi Pajouh, Fatemeh Zamanian Najafabadi, "Brain Connectivity in Living vs. Nonliving Visual Stimuli ", 24th national and 2nd International Iranian Conference on Biomedical Engineering (ICBME),, November 2017
- 13 Mohammadali Ahmadi Pajouh, Babak Azmoudeh, "Developing T-type three degree of freedom force sensor to estimate wrist muscles' forces ", 24th national and 2nd International Iranian Conference on Biomedical Engineering (ICBME), November 2017

14 Fatemeh Yavari, Farzad Towhidkhan, Mohammadali Ahmadi Pajouh, "Examining internal forward models' formation using cerebellar tDCS ", Basic and clinical 2nd Neuroscience Congress 2013, December 2013

15 Fatemeh Yavari, Farzad Towhidkhan, Mohammadali Ahmadi Pajouh, "A review on cerebellar tDCS studies ", Basic and clinical 2nd Neuroscience Congress 2013, December 2013

Taught Courses

#	Course title	Description	Headlines	Date
1	Medical Instrumentation & Measurement	In this course students will learn how to use sensors, design proper electronic interface and record signals in biomedical applications.		Fall 2021
2	Special Topics (Rehabilitation Principles & Devices)	in this course students learn about how brain controls movements. Learning and control are two key subjects that we cover in this course. Sensors, nervous systems structure, adaptation to new tasks, muscles and skeletal systems will be studied in this		Fall 2021
3	Special Topics (Advanced Topics in Human Motor Control and Learning)	in this course students learn about how brain controls movements. Learning and control are two key subjects that we cover in this course. Sensors, nervous systems structure, adaptation to new tasks, muscles and skeletal systems will be studied in this		Fall 2021
4	Qualitative & Quantitative Rehabilitation for Movement Disorders	In this course students learn principles of motor control and learning and their application in rehabilitation and dysfunction assessments.		Spring 2021
5	Introduction to Biomed Eng.	In this course students introduced to basics and fundamentals of biomedical engineering. Systemic analysis of human body, modeling of human body function and basis of medical device function are covered. Courses has three major parts: 1- Bioelectric		Spring 2021
6	Electronic Measurement	In This course students learn how sensors work, how to design circuits to drive and use them.		Spring 2021
7	Fundament of Rehabilitation Inst.	In this course, we will attempt to provide the student with an overview of rehabilitation devices. Rehabilitation has been mostly based on physiology, pathology and analysis of sensory and motor dysfunctions. On the other hand, engineering has an imp		Spring 2021
8	Fundament of Rehabilitation Inst.	In this course, we will attempt to provide the student with an overview of rehabilitation devices. We divide the semester into two parts: 1-electrical and 2- mechanical and electro-mechanical devices. During the first part, we will discuss electrical		Fall 2020
9	Introduction to Biomed Eng.	In this course students introduced to basics and fundamentals of biomedical engineering. Systemic analysis of human body, modeling of human body function and basis of medical device function are covered. Courses has three major parts: 1- Bioelectric		Fall 2020

