MOHAMMAD BAGHER MENHAJ

Professor
Department of Electrical Engineering
Control

Email:

menhaj@aut.ac.ir

Phone:

h-index (Scopus):
27
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Supervised PhD Theses

#	Thesis title	By	Date
1	An analytical method based on pseudo linear form for determination of chaotic autonomous system	Hamed Ghane- Sasansaraee & Mohammad Bagher Menhaj	September 2014
2	Performance limitation analysis for a class of non-minimum phase nonlinear systems and their control	Hoda Nokhbatolfoghahaee & Mohammad Bagher Menhaj	January 2014
3	Modified Distributed EM Algorithm for Density Estimation and Clustering in Sensor Networks	Behrooz Safari Nejhadian & Mohammad Bagher Menhaj	November 2009
4	Multiagent formation in adversarial environment based on reinforcement learning	Ali Akramizadeh & Mohammad Bagher Menhaj	October 2009

Supervised MSc Theses

#	Thesis title	By	Date
1	Dynamic merge of micro robots based on nervous system theory	Mir Sina Valaei & Mohammad Bagher Menhaj	October 2021
2	Risk management in electricity market based on machine learning	Ava Geraily & Mohammad Bagher Menhaj	September 2021
3	EEG based brain–computer interface approach for controlling the speed of a hand rehabilitation system	Seyed Nima Ahmadi Amiri & Mohammad Bagher Menhaj	February 2021

4	3D Based Tumor Segmentation Using Generalized Multi Layer Networks	Mohammadreza Abbasi Sardari & Mohammad Bagher Menhaj	July 2020
5	Modeling and prediction of epilepsy using neural networks	Simin Khalilpour & Mohammad Bagher Menhaj	July 2020
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9	model visual cortex using deep network for 2d images	Moslem Gorji & Mohammad Bagher Menhaj	October 2019
10	Voltage control of microgrid Usinf fuzzy model predictive control and its implementation	Naser Padar & Mohammad Bagher Menhaj	July 2019
11	Perception of touch in human	Hossein Mehdipour Ahangar & Mohammad Bagher Menhaj	July 2019
12	design and simulation of tactile sensor by using Neuromorphic model	Elham Eskandari Maleki & Mohammad Bagher Menhaj	July 2019
13	Design modeling and implementation of mounting arm of insulator cleaning robot	Eshagh Arefnejad & Mohammad Bagher Menhaj	March 2019
14	Modeling of behavior of V4 in visual cortex	Fatemeh Kamali & Mohammad Bagher Menhaj	February 2019
15	Adaptive control of fully-constrained cable robots considering elasticity in cables : Integral manifold approach	Amin Nazari & Mohammad Bagher Menhaj	July 2018
16	increasing performance of ms disease diagnosis using mr1 and vital signs	Saba Heidari Gheshlaghi & Mohammad Bagher Menhaj	February 2018
17	Design and hardware implementation of 1DoF exoskeleton system for upper limb rehabilitation based on multiple electrical biosignals	Seyed Hesam Seyed Gholami & Mohammad Bagher Menhaj	February 2018
18	Design , Modeling and Control of Stewart platform(Hexapod).	Sadegh Mehrabi & Mohammad Bagher Menhaj	February 2018
19	Design and hardware implementation of 1DoF exoskeleton system for upper limb rehabilitation based on Single electrical biosignal	Alireza Zolanvari & Mohammad Bagher Menhaj	February 2018
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32	Fault Tolerent Control in Multi Agent System Agenst Actuator Failure	Mohammad Eslami & Mohammad Bagher Menhaj	October 2015
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46	Formation of multi-agents system (MAS) with iterative learning control (ILC)	Navid Esmaeilzadeh Ghahderijani & Mohammad Bagher Menhaj	October 2014
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88	CONTROL OF SINGLE-LINK FLEXIBLE ARM USING SELF-FEEDBACK NEURAL NETWORK STRUCTURES	Mahmood Amiri & Mohammad Bagher Menhaj	March 2007
89	IDENTIFICATION OF DYNAMIC PARAMETERS OF YAZD SYNCHRONOUS GENERATORS USING A NEW ALGORITHM FROM FIELD MEASUREMENTS	Esmaeil Ghahremani & Mohammad Bagher Menhaj	February 2007
90	FUZZY DECISION SUPPORT SYSTEM (AND MANAGER BEHAVIOR MODELING) FOR CRISIS MANAGEMENT	Hoda Nokhbeh Foghahaayee & Mohammad Bagher Menhaj	January 2007
91	NEURAL ARCHITECTUR WITH BAYESIAN LEARNING: AN APPLICATION TO PREDICATION PROBLEMS	Nariman Mahdavi Mazdeh & Mohammad Bagher Menhaj	January 2007
92	EVALUATION OF THE APPLICATION OF FUZZY COMPUTATIONAL BASED TECHNIQUES FOR INVERSE KINEMATICS PROBLEM OF MANIPULATORS WIT	Navid Dehdashti Akhavan & Mohammad Bagher Menhaj	July 2006
93	Analysis of bayesien learning methods for neural networks	Hamid Sahebkherad & Mohammad Bagher Menhaj	April 2006

Books

#	Title	Author(s)	Publisher country	publication date	version
	Portal Records				
1	Adaptive control systems	Mohammad Bagher Menhaj	Iran (Islamic Republic of)	September 2016	1
2	Advances in flight control systems -Chapter 13 comparison of flight control system design methods in landing 261	Hossein Safati, Mehdi Sabzeh Parvar, Mohammad Bagher Menhaj	Croatia (Hrvatska)	March 2011	1
3	BASIC CONTROL SYSTEMS	Mehrdad Abedi, Mohammad Bagher Menhaj, Hassan Rastegar, Hamed Alaghemand	Iran (Islamic Republic of)	March 2002	2
4	BASIC CONTROL SYSTEMS	Mehrdad Abedi, Mohammad Bagher Menhaj, Hassan Rastegar, Hamed Alaghemand	Iran (Islamic Republic of)	March 1996	1
5	Fuzzy Control	Mohammad Bagher Menhaj, Yaser Shokri Kalandaragh	Iran (Islamic Republic of)	February 2016	1

Journal Papers

Portal Records

1 Behzad Farzanegan, Amirabolfazl Suratgar, Mohammad Bagher Menhaj, Mohsen Zamani, "Distributed optimal control for continuous-time nonaffine nonlinear interconnected systems", INTERNATIONAL JOURNAL OF CONTROL, September 2021 Vol. 1, Num. 1, Page 1-16, September 2021,

2   Mohammad Ali Massoumnia, Mohammad Bagher Menhaj, Amirabolfazl Suratgar, "A unified structure for basic guidance laws of moving objects", INTERNATIONAL JOURNAL OF SYSTEMS SCIENCE, August 2021 Vol. 52, Num. 10, Page 1-13, August 2021,

3   Ali Mehrjouyan, Mohammad Bagher Menhaj, Mohammadazam Khosravi, "Robust observer-based adaptive synchronization control of uncertain nonlinear bilateral teleoperation systems under time-varying delay", MEASUREMENT, May 2021 Vol. 182, Num. 109542, Page 1-12, May 2021,

4   Nahid Banafian, Rasul Fesharakifard, Mohammad Bagher Menhaj, "Precise seam tracking in robotic welding by an improved image processing approach", INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, March 2021 Vol. 113, Num. 0, Page 1-20, March 2021,

5   Jafar Tavousi, Amirabolfazl Suratgar, Mohammad Bagher Menhaj, Amir Mosavi, Ardashir Mohammadzadeh, Ehsan Ranjbar, "Modeling Renewable Energy Systems by a Self-Evolving Nonlinear Consequent Part Recurrent Type-2 Fuzzy System for Power Prediction", Sustainability, March 2021 Vol. 6, Num. 13, Page 3301-3322, March 2021,

6   Ehsan Ranjbar, Amirabolfazl Suratgar, Mohammad Bagher Menhaj, Mukesh Prasad, "Design of a Fuzzy Adaptive Sliding Mode Control System for MEMS Tunable Capacitors in Voltage Reference Applications", IEEE TRANSACTIONS ON FUZZY SYSTEMS, March 2021 Vol. 1, Num. 1, Page 1-16, March 2021,

7   Hoda N Foghahaayee, Mohammad Bagher Menhaj, Heidar Ali Talebi, "A new synthetic output tracking scheme for non-minimum phase affine nonlinear systems", JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, December 2020 Vol. 357, Num. 18, Page 13326-13361, December 2020,

8   Fatemeh Kamali, Amirabolfazl Suratgar, Mohammad Bagher Menhaj, Reza Abbasi Asl, "Receptive Field Encoding Model for Dynamic Natural Vision", , December 2019 Vol. 1, Num. 4, Page 1-7, December 2019,

9   Amir Adibzadeh, Mohsen Zamani, Amirabolfazl Suratgar, Mohammad Bagher Menhaj, "CONSTRAINED OPTIMAL CONSENSUS IN DYNAMICAL NETWORKS", NUMERICAL ALGEBRA CONTROL AND OPTIMIZATION, September 2019 Vol. 9, Num. 3, Page 349-360, September 2019,

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12   Maziar Ebrahimi Dehshalie, Mohammad Bagher Menhaj, Mehdi Karrari, "Optimal Control Algorithm Design for the Microfluidic Channel Network Droplet Generation with Output Feedback Delay", Modares Mechanical Engineering, July 2019 Vol. 19, Num. 7, Page 1585-1590, July 2019,

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28   Mohammad Hadi Rezaei Estakhroeieh, Meisam Kabiri, Mohammad Bagher Menhaj, "Adaptive consensus for high-order unknown nonlinear multi-agent systems with unknown control directions and switching topologies", INFORMATION SCIENCES, April 2018 Vol. 0, Num. 0, Page 0-0, April 2018,

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