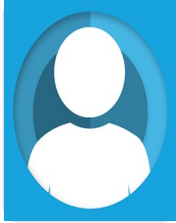




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### Supervised PhD Theses

#	Thesis title	By	Date
1	Adaptive control of dynamical systems described by linear hyperbolic partial differential equations	Hamed Shirinabadi Farahani & Heidar Ali Talebi	October 2017
2	Performance limitation analysis for a class of non-minimum phase nonlinear systems and their control	Hoda Nokhbatolfoghaee & Heidar Ali Talebi	January 2014
3	dynamic sliding mode control for non-minimum phase systems with minimum measurable state variables and application to the water level control of nuclear steam generators	Gholamreza Ansarifard & Heidar Ali Talebi	January 2012

### Supervised MSc Theses

#	Thesis title	By	Date
1	Intelligent Control of a Wrist Tele-rehabilitation Based on Recovery Indices	Elahe Radmanesh & Heidar Ali Talebi	September 2021
2	AC islanded microgrids control strategy based on multi-agent systems approach	Hanieh Tabatabaei & Heidar Ali Talebi	October 2020
3	Enhancement of security in cyber physical systems using artificial intelligence	Kosar Behnia & Heidar Ali Talebi	September 2020

4	Control and implementation of fluid-driven soft gripper with dynamic uncertainty of object	Amirhosein Alian & Heidar Ali Talebi	September 2020
5	Temporal logic control of mobile robots in partially known environment	Mohamad Hosseine Tavakoli Bina & Heidar Ali Talebi	July 2020
6	Voltage REGULATION USING DECENTRALIZED CONTROL OF smart grids in the presence of anomaly	Arezo Shevidi & Heidar Ali Talebi	June 2020
7	controller design and implementation for a soft robot interacting with environment	Zahra Shahrooei & Heidar Ali Talebi	February 2020
8	Control of a soft robot manipulator in constrained environment	Pedram Alipour & Heidar Ali Talebi	July 2019
9	Resonance Switching Cyber Attack on Load Frequency Control of Smart Grid	Ali Mohammad Hosseini & Heidar Ali Talebi	June 2019
10	Design, modeling and fabrication of robot manipulator for cleaning of insulators	Amirhossein Asli & Heidar Ali Talebi	May 2019
11	Event-Triggered Fault Tolerant Control of Teleoperation System	Sayeh Rezaee & Heidar Ali Talebi	March 2019
12	Event triggerd control in presence of uncercainties in communication networks in teleoperation systems	Farnaz Ashrafi & Heidar Ali Talebi	March 2019
13	Analysis, design and implementation in visual servoing of robotic platform for intra-ocular injection	Haleh Hayati & Heidar Ali Talebi	February 2019
14	Control of A Flexible Needle in Soft Tissue Considering Turbulences Caused by the Interaction of Tissue and Needles	Karim Davari Benam & Heidar Ali Talebi	January 2019
15	Glaucoma detection based on image data and biological parameters	Maede Nasri & Heidar Ali Talebi	October 2018
16	parallel processing of nonlinear mass-spring model for haptic rendering of soft tissue	Razieh Salari & Heidar Ali Talebi	June 2018
17	Designing optimized controller on biological micro robots	Anahita Moradmand Painroodposhti & Heidar Ali Talebi	February 2018
18	employing biological signals in rehabilitation procedure	Hamed Hosseini & Heidar Ali Talebi	October 2017
19	Controller Design of an autonomous rehabilitation mentor for stroke patients based on machine learning	Mozhgan Moradiganjeh & Heidar Ali Talebi	May 2017
20	design and control a virtual fixture for medical robots	Morteza Ali Tehrani & Heidar Ali Talebi	February 2017
21	Enhanced Performance of a Rehabilitation System Based on Performance Indices Extracted from EMG and Motion Parameters	Neda Mehri & Heidar Ali Talebi	February 2017
22	Design,control and implementation of a haptic system interacting with a deformable environment	Shadi Arabi & Heidar Ali Talebi	February 2017
23	teleoperation control in the presence of uncertainty in the impedance of operator and environment	Hesam Rezaee Ahvanouee & Heidar Ali Talebi	February 2017
24	fault-tolerant control in multi-user teleoperation systems	Abbas Tariverdi & Heidar Ali Talebi	October 2016

25	Tele-Rehabilitation System Control of a Supervised Multi-User	Homa Ammari Allahyari & Heidar Ali Talebi	October 2016
26	Simulation and Implementation of Haptic System in Contact with Point Clouds Data	Elham Iravani & Heidar Ali Talebi	February 2016
27	Design and Manufacturing of a Ballbot with Nonlinear Control Dealing With Changes of Surface Friction	Hossein Zabih & Heidar Ali Talebi	February 2016
28	A Robotic Assisted System for path planning and control of Needle Insertion into a soft tissue	Mohammad Jafar Jahanbazi Goojani & Heidar Ali Talebi	February 2016
29	an unsupervised computational system for diagnosis and monitoring of multiple sclerosis	Moussa Mohsenpourian & Heidar Ali Talebi	February 2016
30	Displacement and force control of a piezoelectric actuator using self-sensing method	Navid Fallahinia & Heidar Ali Talebi	February 2016
31	Robust Fault Detection for Photovoltaic Systems by using model based methods	Parisa Shahabadi & Heidar Ali Talebi	February 2016
32	Robust control of engine vibration using active engine mount	Rahime Naseri & Heidar Ali Talebi	February 2016
33	Control of Flexible Shaft for an Assistant Robot in Maxillofacial Surgery	Sahar Babaei & Heidar Ali Talebi	February 2016
34	Optimization of Needle Velocity for Needle insertion into a soft Tissue Aming to Minimize the Insertion Error	Seyed Mojtaba Haghi & Heidar Ali Talebi	February 2016
35	Design and Manufacturing of a Ballbot with Nonlinear Control for Improving Stability against Disturbances	Mehdi Akbari & Heidar Ali Talebi	February 2016
36	Compensation of tissue deformation in minimally invasive surgery(MIS)	Mojtaba Hajimiri & Heidar Ali Talebi	January 2016
37	Performance Improvement of Telerobotic System in Presence of Environment and its application in Heart Beating Surgery	Maryam Sharifi & Heidar Ali Talebi	September 2015
38	Entrance Avoidance to the Forbidden regions in Rehabilitation Robot Using Virtual Fixture	Ahmad Moradi & Heidar Ali Talebi	September 2015
39	A Motion Compensator for Robotic Assisted Beating Heart Surgery Using Disturbance Observer	Fatemeh Ansari Eshlaghi & Heidar Ali Talebi	September 2015
40	Grasp Planning and control for Object Manipulation using cooperative Whole Arm Manipulator	Esmail Mehrabi Koushki & Heidar Ali Talebi	February 2015
41	control of a tele-rehabilitation robot in the presence of time delay	Fateme Kochaki Ghermezcheshme & Heidar Ali Talebi	February 2015
42	Performance Enhancement In Subjective Experiment On Robotic Assisted Beating Heart Surgery	Bahareh Aboutalebian & Heidar Ali Talebi	February 2015
43	Control of a Tele-robot for Wrist Rehabilitation	Keyvan Mohammadi & Heidar Ali Talebi	February 2015
44	Controller Design for Performance Enhancement In Subjective Experiment On Robotic-Assisted Laparoscopic Surgery	Sahar Etedali & Heidar Ali Talebi	February 2015
45	design and implementation impedance control for rehabilitation robot	Babak Safaie & Heidar Ali Talebi	February 2015

46	Fault -Tolerant control of electro- hydraulic servo systems	Ali Tivay & Heidar Ali Talebi	February 2015
47	control of a tele-rehabilitation robot for active environment	Sara Sadat Rahimifard & Heidar Ali Talebi	February 2015
48	Control of a Robotic Active Stabilizer for Beating Heart Surgery	Elaheh Arefinia & Heidar Ali Talebi	February 2015
49	Control of Unknown Nonlinear Systems with Constrained Input using Neural Networks	Kasra Esfandiari & Heidar Ali Talebi	October 2014
50	Interaction force control in robotic assistant endoscopic surgery	Mohamad Ali Soleimani & Heidar Ali Talebi	October 2014
51	Fault detection in magnetic levitation systems	Seyed Mohammad Reza Koohpeyma & Heidar Ali Talebi	March 2014
52	Design & Implementation of a Visual Servoing system on an endoscopic robot (for robotic maxillofacial surgery)	Mehrnaz Salehian & Heidar Ali Talebi	March 2014
53	An Enhanced Control Performance for Flexible-Link Manipulators using Piezoelectric Actuators in the presence of saturation	Asieh Aalla & Heidar Ali Talebi	March 2014
54	Fieldbus reliability improvement using reliability and leaf analysis	Sadegh Vosough & Heidar Ali Talebi	February 2014
55	Estimation of intra-operative brain shift for surgery path correction	Mehran Shakarami & Heidar Ali Talebi	February 2014
56	Control of a flexible-link robot using force estimation with guaranteed stability	Aida Rashidi Negad & Heidar Ali Talebi	February 2014
57	Adaptive control of beating heart surgery robot	Ehsan Rezaei & Heidar Ali Talebi	February 2014
58	Vibration control of a redundant robot manipulator with link flexibility via redundancy resolution	Sara Sattarzadeh & Heidar Ali Talebi	February 2014
59	design of simulator for soft tissue cutting operation using haptics interface with force feedback	Marzieh Saeidirad & Heidar Ali Talebi	January 2014
60	Robust control of beating heart surgery robot	Habib Zeinali Ghahani & Heidar Ali Talebi	January 2014
61	Design of virtual training system for teeth drilling	Masoomah Sadat Razavi & Heidar Ali Talebi	January 2014
62	Control and monitoring of smart wells using sensor network	Mohsen Gheibi & Heidar Ali Talebi	November 2013
63	Design and Implementation of Control Architecture for a Telerobotic System in Tele Presence of Flexible Link Slave Manipulator and Variable Impedance Environment and Operator	Marzie Saghafi & Heidar Ali Talebi	September 2013
64	Design and implementation of a control structure for the dual-user cooperative	Arefeh Golshan & Heidar Ali Talebi	February 2013
65	Traching control of UGV by UAV in the presence of obstacles	Azadeh Aghaeeyan & Heidar Ali Talebi	February 2013
66	Design of controller to avoid dealing with the environment in cell manipulation	Bashir Kalagar & Heidar Ali Talebi	February 2013

67	Autonomous Vehicle Steering : A Predictive Control Approach	Shokofeh Jafari & Heidar Ali Talebi	October 2012
68	Control Design For Grasping Convex Object Using Cooperative Whole Arm Manipulator	Mahyar Abdetedal & Heidar Ali Talebi	October 2012
69	Designing And Implementation Of A Controller For Transparency Improvement Of Teleoperation System In The Presence Of Data Loss	Ali Bakhshi & Heidar Ali Talebi	October 2012
70	Planning And Control For Manipulation By Cooperative Whole Arm Manipulator	Behzad Talaei & Heidar Ali Talebi	October 2012
71	Real-Time Detection of Needles for 3D Ultrasound Image Guidance	Leila Malekian & Heidar Ali Talebi	September 2012
72	Robust Control For A Capsule Micro Robot	Sepideh Kharaghani & Heidar Ali Talebi	June 2012
73	Design and Control of a MIS Telesurgeric robot based on haptic feedback	Iman Sharifi & Heidar Ali Talebi	February 2012
74	Controller design for the microrobot suspended in Liquid environment with applications in pipes inspection	Alireza Ahangarani Farahani & Heidar Ali Talebi	February 2012
75	A Robust Control Scheme for Multi-Master Multi-Slave Teleoperation system	Sheida Ghapani & Heidar Ali Talebi	January 2012
76	Path Planning And Needle Steering Into Soft Tissue	Mohammad Motaharifar & Heidar Ali Talebi	October 2011
77	design and implementation of a control strategy for delayed multi master/single slave teleoperation systems	Mahya Shahbazi & Heidar Ali Talebi	February 2011
78	Coverage Control in Sensor Network Environments with Unknown Obstacles	Mahya Adibi & Heidar Ali Talebi	February 2011
79	Robust Leader-Follower Formation Control In Mobile Robots	Mojtaba Naderi & Heidar Ali Talebi	February 2011
80	Modeling and Control of Quadruped Robot for walking in rough terrain	Mohammad Hosseinzadeh & Heidar Ali Talebi	February 2011
81	design and implementation of a control strategy for delayed teleoperation systems ultizing flexible slave	Seyed Farokh Atash Zar & Heidar Ali Talebi	February 2011
82	Quadruped Robot Obstacle Negotiation	Peyman Aghabalaei Baghaei & Heidar Ali Talebi	February 2011
83	Reduction Of Tissue Indentation In Teleoperated Needle Insertion	Mohammadreza Dehghan & Heidar Ali Talebi	January 2011
84	Formation control for autonomous underwater vehicles with limited communication	Saba Emrani & Heidar Ali Talebi	October 2010
85	Minimization of needle deflection in percutaneous therapy	Amir Navab Irani & Heidar Ali Talebi	July 2010
86	Intelligent control of a manipulator via a bio-inspired approach	Amir Hossein Hassanabadi & Heidar Ali Talebi	July 2010

87	Multi-agent unknown environment coverage and exploration minimization of number of sensors	Ahmadreza Pourshoghi & Heidar Ali Talebi	June 2009
88	SOFT tissue modeling for neele insertion control using master-slave robot	Mohamad Javad Aein & Heidar Ali Talebi	March 2009
89	DESIGNING A CONTROL SYSTEM UNDER COMMUNICATION CONSTRAINTS	Vahid Hassani & Heidar Ali Talebi	March 2006

## Books

#	Title	Author(s)	Publisher country	publication date	version
<b>Portal Records</b>					
1	Neural Network-Based State Estimation of Nonlinear Systems	Heidar Ali Talebi, Farzaneh Abdollahi, Rajni Patel, Kash Khorasani	United States	November 2009	1
2	Neural Network-Based Adaptive Control of Uncertain Nonlinear Systems	Kasra Esfandiari, Farzaneh Abdollahi, Heidar Ali Talebi	United States	June 2021	1
3	Control of flexible-link manipulators using neural networks	Heidar Ali Talebi, [en-name N/A], [en-name N/A]	Iran (Islamic Republic of)	January 2001	1
4	Control Systems Engineering	Heidar Ali Talebi, Milad Pasand, Ali Zare Zadeh	Iran (Islamic Republic of)	August 2013	1

## Journal Papers

<b>Portal Records</b>					
1	Negar Yassaie, Mohammadreza Hallajiyani, Iman Sharifi, Heidar Ali Talebi, "Resilient control of multi-microgrids against false data injection attack", ISA TRANSACTIONS, October 2021 Vol. 10, Num. 10, Page 238-246, October 2021,				
2	Mehdi Pourafzal, Heidar Ali Talebi, K.R, "Piecewise constant strain kinematic model of externally loaded concentric tube robots", MECHATRONICS, February 2021 Vol. 0, Num. 0, Page 0-0, February 2021,				
3	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,				
4	Fesharaki, S.J, Kamali. M, Sheikholeslam, F., Heidar Ali Talebi, "Robust model predictive control with sliding mode for constrained non-linear systems", IET CONTROL THEORY AND APPLICATIONS, November 2020 Vol. 14, Num. 17, Page 2592-2599, November 2020,				
5	Ali Bakhshi, Alireza Alfi, Heidar Ali Talebi, Amirbolfazel Suratgar, M.Yousefi, "Stability Analysis and Performance Evaluation of Delayed Bilateral Telerobotic Systems over a Lossy Communication Channel", JOURNAL OF SYSTEMS SCIENCE & COMPLEXITY, November 2020 Vol. 0, Num. 0, Page 1-23, November 2020,				
6	Hamid Reza Shafei, Mohsen Bahrami, Heidar Ali Talebi, "Disturbance observer-based two-Layer control strategy design to deal with both matched and mismatched uncertainties", INTERNATIONAL JOURNAL OF ROBUST AND NONLINEAR CONTROL, November 2020 Vol. 0, Num. 0, Page 0-0, November 2020,				
7	Iman Sharifi, Heidar Ali Talebi, Rajni R. Patel, M. Tavakoli, "Multi-Lateral Teleoperation Based on Multi-Agent Framework: Application to Simultaneous Training and Therapy in Telerehabilitation", FRONTIERS IN ROBOTICS AND AI, November 2020 Vol. 0, Num. 0, Page 0-0, November 2020,				

- 8 R. Abolpour, M. Dehghani, Heidar Ali Talebi, "Stability analysis of systems with time-varying delays using overlapped switching Lyapunov Krasovskii functional", JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, October 2020 Vol. 357, Num. 15, Page 10844-10860, October 2020,
- 9 Zahra Yaghoubi, Heidar Ali Talebi, "Cluster Consensus for Nonlinear Multi-Agent Systems", JOURNAL OF INTELLIGENT & ROBOTIC SYSTEMS, August 2020 Vol. 2020, Num. 2020, Page 1-16, August 2020,
- 10 Mohammad Javad Navardi, Jafar Milimonfared, Heidar Ali Talebi, "Flux and torque ripple minimisation for permanent magnet synchronous motor by finite-set hybrid direct torque control", IET POWER ELECTRONICS, July 2020 Vol. 22, Num. 22, Page 1-8, July 2020,
- 11 Hamid Reza Shafei, Mohsen Bahrami, Heidar Ali Talebi, "Design of adaptive optimal robust control for two-flexible-link manipulators in the presence of matched uncertainties", JOURNAL OF VIBRATION AND CONTROL, June 2020 Vol. 0, Num. 0, Page 1-17, June 2020,
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- 14 Bahareh Aboutalebian, Heidar Ali Talebi, Sahar Etedali, Amirabolfazl Suratgar, "Adaptive control of teleoperation system based on nonlinear disturbance observer", EUROPEAN JOURNAL OF CONTROL, April 2020 Vol. 0, Num. 53, Page 109-116, April 2020,
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- 16 Mehran Shakarami, Kasra Erfandiari, Amirabolfazl Suratgar, Heidar Ali Talebi, "Peaking Attenuation of High-Gain Observers Using Adaptive Techniques: State Estimation and Feedback Control", IEEE TRANSACTIONS ON AUTOMATIC CONTROL, January 2020 Vol. 1, Num. 1, Page 1-10, January 2020,
- 17 , Mojtaba Agha-Mirsalim, Gevork B. Gharehpetian, Heidar Ali Talebi, "OC/OL Protection of Droop-Controlled and Directly Voltage-Controlled Microgrids Using TMF/ANNBased Fault Detection and Discrimination", IEEE Journal of Emerging and Selected Topics in Power Electronics, December 2019 Vol. 9, Num. 3, Page 3254-3265, December 2019,
- 18 Rahime Naseri, Heidar Ali Talebi, Abdolreza Ohadi Hamadani, Vahid Fakhari, "A robust active control scheme for automotive engine vibration based on disturbance observer", ISA TRANSACTIONS, November 2019 Vol. 0, Num. 0, Page 0-0, November 2019,
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- 21 .B.B, M.T.H.B, Heidar Ali Talebi, "An improved model predictive control of low voltage ride through in a permanent magnet synchronous generator in wind turbine systems", ASIAN JOURNAL OF CONTROL, July 2019 Vol. ?, Num. 0, Page 0-0, July 2019,
- 22 R.A, M.D, Heidar Ali Talebi, "Output feedback controller for polytopic systems exploiting the direct searching of the design space", INTERNATIONAL JOURNAL OF ROBUST AND NONLINEAR CONTROL, June 2019 Vol. 29, Num. 15, Page 5164-5177, June 2019,
- 23 M.F.R, S.G.F, Heidar Ali Talebi, Mahdi Bayati, "A Novel Cooperative Teleoperation Framework for Nonlinear Time-Delayed Single-Master/Multi-Slave System", ROBOTICA, April 2019 Vol. 0, Num. 0, Page 1-18, April 2019,
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- 25 Yaser Shokri Kalandaragh, Heidar Ali Talebi, "A NOVEL ABSTRACTION METHODOLOGY FOR INTERCONNECTED HYBRID SYSTEMS USING THE EQUIVALENCE CONCEPT", MECHATRONIC SYSTEMS AND CONTROL, March 2019 Vol. 47, Num. 3, Page 172-180, March 2019,
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- 28 M.F.R, S.G.F, Heidar Ali Talebi, Mahdi Bayati, "Fuzzy Sliding Mode Controller Design for a Cooperative Robotic System with Uncertainty for Handling an Object", JOURNAL OF DYNAMIC SYSTEMS MEASUREMENT AND CONTROL-TRANSACTIONS OF THE ASME, February 2019 Vol. 141, Num. 6, Page 0-0, February 2019,
- 29 Hamid Azizzadeh, Mohammad Bagher Menhaj, Heidar Ali Talebi, "Model-based force/position control of cooperative manipulation systems", AUTOMATIKA, January 2019 Vol. 60, Num. 1, Page 113-123, January 2019,
- 30 M.F.R, S.G.F, Heidar Ali Talebi, Mahdi Bayati, "Design of high-order sliding mode controller based on genetic algorithm for a cooperative robotic system", International Journal of Dynamics and Control, January 2019 Vol. 8, Num. 0, Page 269-277, January 2019,
- 31 Hamidreza Baghaee Kashi, Mojtaba Agha-Mirsalim, Gevork B. Gharehpetian, Heidar Ali Talebi, "Decentralized Sliding Mode Control of WG/PV/FC Microgrids Under Unbalanced and Nonlinear Load Conditions for On- and Off-Grid Modes", IEEE SYSTEMS JOURNAL, November 2018 Vol. 12, Num. 4, Page 3108-3119, November 2018,
- 32 Hamidreza Baghaee Kashi, Mojtaba Agha-Mirsalim, Gevork B. Gharehpetian, Heidar Ali Talebi, "Nonlinear Load Sharing and Voltage Compensation of Microgrids Based on Harmonic Power-Flow Calculations Using Radial Basis Function Neural Networks", IEEE SYSTEMS JOURNAL, September 2018 Vol. 12, Num. 3, Page 2749-2759, September 2018,
- 33 Hamidreza Baghaee Kashi, Mojtaba Agha-Mirsalim, Gevork B. Gharehpetian, Heidar Ali Talebi, "A Decentralized Robust Mixed H<sub>2</sub>/H<sub>∞</sub> Voltage Control Scheme to Improve Small/Large-Signal Stability and FRT Capability of Islanded Multi-DER Microgrid Considering Load Disturbances", IEEE SYSTEMS JOURNAL, September 2018 Vol. 12, Num. 3, Page 2610-2621, September 2018,
- 34 Fahemeh Jahangiri Hosein Abadi, Heidar Ali Talebi, Mohammad Bagher Menhaj, Christian Ebenbauer, "A novel scheme for output definition in feedback passivation of nonlinear systems", INTERNATIONAL JOURNAL OF SYSTEMS SCIENCE, September 2018 Vol. 6, Num. 4, Page 1592-1598, September 2018,
- 35 Mahya Shahbazi, Farokh Atashzar, Christopher Ward, Heidar Ali Talebi, Rajni Patel, "Multimodal Sensorimotor Integration for Expert-in-the-Loop Telerobotic Surgical Training", IEEE TRANSACTIONS ON ROBOTICS, August 2018 Vol. 34, Num. 6, Page 1549-1564, August 2018,
- 36 Mehran Shakarami, Amirabolfazl Suratgar, Heidar Ali Talebi, "Intraoperative Brain Shift Estimation Using Atlas of Brain Deformations and Constrained Kalman Filter", IEEE TRANSACTIONS ON CONTROL SYSTEMS TECHNOLOGY, August 2018 Vol. 0, Num. 0, Page 1-10, August 2018,
- 37 Hamidreza Baghaee Kashi, Mojtaba Agha-Mirsalim, Gevork B. Gharehpetian, Heidar Ali Talebi, "MOPSO/FDMT-based Pareto-optimal solution for coordination of overcurrent relays in interconnected networks and multi-DER microgrids", IET GENERATION TRANSMISSION & DISTRIBUTION, June 2018 Vol. 12, Num. 0, Page 2871-2886, June 2018,
- 38 Mohammad Javad Navardi, Jafar Milimonfared, Heidar Ali Talebi, "Torque and Flux Ripples Minimization of Permanent Magnet Synchronous Motor by a Predictive-Based Hybrid Direct Torque Control", IEEE Journal of Emerging and Selected Topics in Power Electronics, May 2018 Vol. 6, Num. 4, Page 1662-1670, May 2018,
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## Taught Courses

#	Course title	Description	Headlines	Date
1	Linear Control Systems	To introduce fundamental of closed-loop (feedback) control systems, time-domain and frequency domain tools for stability as well as performance of feedback control system		Fall 2021
2	Diagnosis and Fault-Tolerant Control Systems	The aim of this course is to introduce basic and advanced methodologies related to detect, isolate, identify the fault and recover the system from the fault using passive and active Fault Tolerant Control (FTC) methods.		Fall 2021
3	Introduction to Computational Intelligence	This course offers an introduction to two major approaches of computational intelligence namely artificial neural networks and fuzzy systems as different tools from classical approaches for modeling, function approximation, control and solving comple		Fall 2021
4	Adaptive Control Systems	The objective of the course is to introduce the fundamental and methods to deal with uncertain and varying parameters in control systems		Spring 2021
5	Digital Control Systems	This course aims to address the issues pertaining to design and implementation of computer controlled systems		Spring 2021
6	Linear Control Systems	To introduce fundamental of closed-loop (feedback) control systems, time-domain and frequency domain tools for stability as well as performance of feedback control system		Fall 2020
7	Linear Control Systems	To introduce fundamental of closed-loop (feedback) control systems, time-domain and frequency domain tools for stability as well as performance of feedback control system		Fall 2020