

Ahmad Fakharian

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

444
citations

933264

10
h-index

996849

15
g-index

83
all docs

83
docs citations

83
times ranked

327
citing authors

#	ARTICLE	IF	CITATIONS
1	Active fault-tolerant control system for a swash mass helicopter using back-stepping approach. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2022, 236, 39-53.	0.7	2
2	Design of Robust Model Reference Adaptive Controller for a Wider Class of Nonlinear Systems. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2022, 46, 127-139.	1.5	2
3	Robust Control of Islanded DC Microgrid for Voltage Regulation Based on Polytopic Model and Load Sharing. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2022, 46, 171-186.	1.5	3
4	An Adaptive Nonsingular Fast Terminal Sliding Mode Controller for Dynamic Walking of a 5-Link Planar Biped Robot in Both Single and Double Support Phases. Mathematical Problems in Engineering, 2022, 2022, 1-15.	0.6	4
5	Mathematical Modeling of the Novel Coronavirus Pandemic in Iran: A Model With Vaccination. , 2022, , .		3
6	H_{∞} Robust Control Design for Three-Element Industrial Boiler Supervisory System. , 2022, , .		1
7	Multivariable Nonlinear Control of Air-Handling Unit in HVAC System: Robust Sliding Mode Control. , 2022, , .		0
8	Nonlinear Sub-optimal Control Design for Suppressing HIV Replication. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2022, 46, 805-818.	1.5	3
9	Optimal Operation of Unbalanced Microgrid Utilizing Copula-Based Stochastic Simultaneous Unit Commitment and Distribution Feeder Reconfiguration Approach. Arabian Journal for Science and Engineering, 2021, 46, 1287-1311.	1.7	7
10	A nonlinear robust optimal controller for an active transfemoral prosthesis: An estimator-based state-dependent Riccati equation approach. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2021, 235, 313-329.	0.7	4
11	A Coordinated Performance of Power System Operated with Participants in Demand Response Programs Considering Environmental Pollution Constraints. Journal of Electrical Engineering and Technology, 2021, 16, 15-29.	1.2	5
12	A critical review on definitions, indices, and uncertainty characterization in resiliency-oriented operation of power systems. International Transactions on Electrical Energy Systems, 2021, 31, e12680.	1.2	16
13	Optimal controller design for DC microgrid based on state-dependent Riccati Equation (SDRE) approach. Cyber-Physical Systems, 2021, 7, 41-72.	1.6	5
14	A new modified polynomial-based optimal control design approach. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2021, 235, 355-370.	0.7	3
15	A hybrid approach based on IGDT-MOCMAES method for optimal operation of smart distribution network under severe uncertainties. International Journal of Energy Research, 2021, 45, 9463-9491.	2.2	3
16	Multivariable Nonlinear Model Predictive Controller Design for Air-Handling Unit with Single Zone in Variable Air Volume. , 2021, , .		0
17	Nonlinear Sub-Optimal Controller for Ebola Virus Disease: State-Dependent Riccati Equation Approach. , 2021, , .		9
18	A novel controller for nonlinear uncertain systems using a combination of SDRE and function approximation technique: Regulation and tracking of flexible-joint manipulators. Journal of the Franklin Institute, 2021, 358, 5185-5212.	1.9	12

#	ARTICLE	IF	CITATIONS
19	Fault-Tolerant Control of Quadrotor UAVs Based on Back-Stepping Integral Sliding Mode Approach and Iterative Learning Algorithm. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-15.	0.6	4
20	Nonlinear observer-based optimal control of an active transfemoral prosthesis. <i>Journal of Central South University</i> , 2021, 28, 140-152.	1.2	8
21	Observer-based robust control for flexible-joint robot manipulators: A state-dependent Riccati equation-based approach. <i>Transactions of the Institute of Measurement and Control</i> , 2020, 42, 3135-3155.	1.1	21
22	Optimal Sliding Mode Controller for an Active Transfemoral Prosthesis Using State-Dependent Riccati Equation Approach. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 6559-6572.	1.7	11
23	Trajectory tracking for quadrotor UAV transporting cable-suspended payload in wind presence. <i>Transactions of the Institute of Measurement and Control</i> , 2019, 41, 1243-1255.	1.1	41
24	Sub-Optimal Observer-based Controller Design Using the State Dependent Riccati Equation Approach for Air-Handling Unit. , 2019, , .		7
25	Output Feedback Robust Siding Mode Controller Design for Wind Turbine. <i>Journal of Electrical Engineering and Technology</i> , 2019, 14, 2477-2485.	1.2	5
26	Back-Stepping Integral Sliding Mode Control with Iterative Learning Control Algorithm for Quadrotor UAVs. <i>Journal of Electrical Engineering and Technology</i> , 2019, 14, 2539-2547.	1.2	22
27	Online Policy Iteration-Based Tracking Control of Four Wheeled Omni-Directional Robots. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2018, 140, .	0.9	3
28	Decentralized control of an islanded microgrid based on offline model reference adaptive control. <i>Journal of Renewable and Sustainable Energy</i> , 2018, 10, .	0.8	10
29	Energy efficiency in the robot arm using genetic algorithm. , 2018, , .		6
30	Voltage and frequency control of an islanded microgrid through robust control method and fuzzy droop technique. , 2017, , .		19
31	An optimal power management system for automatic connection of DC and AC resources of hybrid-microgrid systems. , 2017, , .		3
32	Robust path following of a car-like robot in the presence of sliding effect based on LMI formulation. , 2017, , .		1
33	Nonlinear optimal control of air handling unit via State Dependent Riccati Equation approach. , 2017, , .		8
34	An intelligent droop control for improve voltage regulation and equal power sharing in islanded DC microgrids. , 2017, , .		6
35	Side sonar vision applied to Omni-directional images to navigate mobile robots. , 2017, , .		2
36	Temperature control of distillation column in Hydro-alkylation of toluene: A supervisory predictive approach. , 2016, , .		0

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37	Pressure control in gas oil pipeline: A supervisory model predictive control approach. , 2016, , .		4
38	An experimental system identification modeling and robust control for NAO humanoid robot. , 2016, , .		0
39	A novel method for connecting the PV unit to hybrid microgrid systems based on smart controlling structure. , 2016, , .		1
40	Path following of an omni-directional four-wheeled mobile robot. , 2016, , .		2
41	H<inf>â&tilde</inf> output feedback controller design for flexible needles guidance. , 2016, , .		0
42	GA-based optimal droop control approach to improve voltage regulation and equal power sharing for islanded DC microgrids. , 2016, , .		11
43	Optimal trajectory planning for Omni-directional mobile robots using direct solution of optimal control problem. , 2016, , .		5
44	Fractional order sliding mode guidance law: Improving performance and robustness. , 2016, , .		5
45	Adaptive optimal control via reinforcement learning for omni-directional wheeled robots. , 2016, , .		3
46	A new control approach for islanded microgrid system: Based on correlative techniques. , 2016, , .		3
47	Mobile robot navigation using sonar vision algorithm applied to omnidirectional vision. , 2015, , .		2
48	Design and implementation of a controller with two-degrees of freedom using neural networks based on FPGA. , 2015, , .		0
49	LQG controller based on fuzzy logic to control the power of wind turbine. , 2015, , .		3
50	Tool position tracking control of a nonlinear uncertain flexible robot manipulator by using robust H2/H˜ controller via TËS fuzzy model. Sadhana - Academy Proceedings in Engineering Sciences, 2015, 40, 307-333.	0.8	23
51	Optimal trajectory planning for an omni-directional mobile robot with static obstacles: a polynomial based approach. , 2015, , .		6
52	Trajectory tracking via adaptive nonlinear control approach for a quadrotor MAV. , 2015, , .		4
53	Implementation of a frequency FIR filter as 2D-FIR filter based on FPGA. , 2015, , .		0
54	Polynomial based optimal trajectory planning and obstacle avoidance for an omni-directional robot. , 2015, , .		4

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55	Attitude control and trajectory tracking of an autonomous miniature aerial vehicle. , 2015, , .		4
56	A combination of 3-phase and d-q techniques for controlling the islanded microgrid system: New schemes. , 2015, , .		3
57	Model-based predictive control of wheeled omni-directional robots considering nonlinear dynamical constraints and input delay. , 2014, , .		3
58	Fast and precise positioning of wheeled Omni-directional robot with input delay using model-based predictive control. , 2014, , .		0
59	Integral Backstepping Sliding Mode Guidance Law with Finite Time Convergence. International Journal of Control and Automation, 2014, 7, 19-30.	0.3	4
60	Fuzzy adaptive PI control of omni-directional mobile robot. , 2013, , .		6
61	Fuzzy control for rotor speed of power plant gas turbine. , 2013, , .		2
62	Fuzzy robust control of MIMO nonlinear uncertain systems. , 2013, , .		0
63	Adaptive control of a wind turbine based on neural networks. , 2013, , .		1
64	Path tracking and obstacle avoidance of a FPGA-based mobile robot (MRTQ) via fuzzy algorithm. , 2013, , .		8
65	Fuzzy integral backstepping control approach in attitude stabilization of a quadrotor UAV. , 2013, , .		5
66	Position and Current Control of an Interior Permanent-Magnet Synchronous Motor by Using Loop-Shaping Methodology: Blending of H [∞] Mixed-Sensitivity Problem and T ^s Fuzzy Model Scheme. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, .	0.9	13
67	Robust H-infinity control for the pH Neutralization process based on fuzzy models. , 2013, , .		2
68	Robust H ₂ /H _∞ control for a robot manipulator fuzzy system. , 2013, , .		1
69	An experimental LTI model for open loop Nao navigation. , 2013, , .		1
70	Consensus in multi-agent networked system using adaptive neuro-fuzzy inference system. , 2013, , .		0
71	Nonlinear Electrical Circuit Oscillator Control Based on Backstepping Method: A Genetic Algorithm Approach. Mathematical Problems in Engineering, 2012, 2012, 1-14.	0.6	3
72	Robust multi-objective H ₂ /H _∞ tracking control based on the Takagi-Sugeno fuzzy model for a class of nonlinear uncertain drive systems. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2012, 226, 1107-1118.	0.7	19

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73	Robust Mixed-Sensitivity Gain-Scheduled H_2 tracking control of a nonlinear Time-Varying IPMSM via a T-S fuzzy model. , 2012, , .		3
74	Speed and torque control of induction motor by using robust H_2 mixed-sensitivity problem via T-S Fuzzy model. , 2012, , .		1
75	Robust mixed-sensitivity H_2 control for a class of MIMO uncertain nonlinear IPM synchronous motor via T-S fuzzy model. , 2012, , .		5
76	H_2 static state feedback control of linear singular perturbation systems: A new approach. , 2011, , .		2
77	A new approach on H_2 control of linear singular perturbation systems. , 2011, , .		0
78	An iterative-LMI based H_2 control of singular perturbation systems. , 2011, , .		0
79	A new prediction algorithm to improve training the neural networks and its application in mobile robot control system. , 2011, , .		0
80	Simulation and assessment of wireless fieldbus networks over IEEE802.11. , 2011, , .		0
81	Precise hybrid motion detection and tracking in dynamic background. , 2011, , .		3
82	Design of Switching Multiobjective Controller: A New Approach. Mathematical Problems in Engineering, 2011, 2011, 1-12.	0.6	0
83	Solving the Hamiltonâ€“Jacobiâ€“Bellman equation using Adomian decomposition method. International Journal of Computer Mathematics, 2010, 87, 2769-2785.	1.0	20