Mohammad Jafari

List of Publications by Year
in descending order

46 papers	599 citations	840585 11 h-index	839398 18 g-index
47 all docs	47 docs citations	47 times ranked	455 citing authors

#	Article	IF	Citations
1	Automatic wound detection and size estimation using deep learning algorithms. PLoS Computational Biology, 2022, 18, e1009852.	1.5	20
2	A multi-ion electrophoretic pump for simultaneous on-chip delivery of H+, Na+, and Clâˆ'. APL Materials, 2022, 10, .	2.2	8
3	Simple Learning-Based Robust Trajectory Tracking Control of a 2-DOF Helicopter System. Electronics (Switzerland), 2022, 11, 2075.	1.8	8
4	Feedback Control of Bioelectronic Devices Using Machine Learning. , 2021, 5, 1133-1138.		18
5	The multi-channel potentiostat: Development and evaluation of a scalable mini-potentiostat array for investigating electrochemical reaction mechanisms. PLoS ONE, 2021, 16, e0257167.	1.1	16
6	A feedback control architecture for bioelectronic devices with applications to wound healing. Journal of the Royal Society Interface, 2021, 18, 20210497.	1.5	7
7	Machine Learningâ€Driven Bioelectronics for Closedâ€Loop Control of Cells. Advanced Intelligent Systems, 2020, 2, 2000140.	3.3	29
8	A biologically-inspired reinforcement learning based intelligent distributed flocking control for Multi-Agent Systems in presence of uncertain system and dynamic environment. IFAC Journal of Systems and Control, 2020, 13, 100096.	1.1	18
9	Expanding biological control to bioelectronics with machine learning. APL Materials, 2020, 8, .	2.2	16
10	Machine Learningâ€Driven Bioelectronics for Closedâ€Loop Control of Cells. Advanced Intelligent Systems, 2020, 2, 2070122.	3.3	3
11	Privacy Preserving Path Planning in an Adversarial Zone. , 2020, , .		3
12	Online Machine Learning Based Predictor for Biological Systems. , 2019, , .		2
13	Online Machine Learning Based Controller for Coupled Tanks Systems. , 2019, , .		1
14	Adaptive Intelligent Secondary Control of Microgrids Using a Biologically-Inspired Reinforcement Learning. , 2019, , .		2
15	A biologically-inspired distributed fault tolerant flocking control for multi-agent system in presence of uncertain dynamics and unknown disturbance. Engineering Applications of Artificial Intelligence, 2019, 79, 1-12.	4.3	36
16	A neurobiologically-inspired intelligent trajectory tracking control for unmanned aircraft systems with uncertain system dynamics and disturbance. Transactions of the Institute of Measurement and Control, 2019, 41, 417-432.	1.1	26
17	Biologically inspired adaptive intelligent secondary control for MGs under cyber imperfections. IET Cyber-Physical Systems: Theory and Applications, 2019, 4, 341-352.	1.9	4
18	Adaptive neural network based intelligent secondary control for microgrids. , 2018, , .		14

#	Article	IF	Citations
19	Biologically-Inspired Intelligent Flocking Control for Networked Multi-UAS with Uncertain Network Imperfections. Drones, 2018, 2, 33.	2.7	3
20	A Game Theoretic Based Biologically-Inspired Distributed Intelligent Flocking Control for Multi-UAV Systems with Network Imperfections. , 2018, , .		3
21	Brain Emotional Learning-Based Path Planning and Intelligent Control Co-Design for Unmanned Aerial Vehicle in Presence of System Uncertainties and Dynamic Environment. , 2018, , .		2
22	Adaptive Neural Network Based Intelligent Control for Unmanned Aerial Systems with System Uncertainties and Disturbances. , 2018, , .		3
23	A Biologically-Inspired Distributed Intelligent Flocking Control for Networked Multi-UAS with Uncertain Network Imperfections. , 2018, , .		1
24	Intelligent Control for Unmanned Aerial Systems with System Uncertainties and Disturbances Using Artificial Neural Network. Drones, 2018, 2, 30.	2.7	34
25	A Survey on Unmanned Aerial Vehicle Remote Control Using Brain–Computer Interface. IEEE Transactions on Human-Machine Systems, 2018, 48, 337-348.	2.5	103
26	Formation Control and Obstacle Avoidance of Multiple Rectangular Agents With Limited Communication Ranges. IEEE Transactions on Control of Network Systems, 2017, 4, 680-691.	2.4	70
27	Implementation of Brain Emotional Learning-Based Intelligent Controller for Flocking of Multi-Agent Systems. IFAC-PapersOnLine, 2017, 50, 6934-6939.	0.5	12
28	Brain emotional learning-based intelligent tracking control for Unmanned Aircraft Systems with uncertain system dynamics and disturbance. , 2017, , .		12
29	A low-computation distributed connectivity control for coordinated multi-UAS. , 2017, , .		1
30	Brain Emotional Learning-Based Intelligent Controller for flocking of Multi-Agent Systems. , 2017, , .		29
31	A biologically-inspired distributed resilient flocking control for multi-agent system with uncertain dynamics and unknown disturbances. , 2017, , .		3
32	A biologically-inspired intelligent controller for distributed velocity control of multiple electro-hydraulic servo-systems. , 2017, , .		5
33	Kinematic analysis of Darwin's humanoid robot. , 2016, , .		6
34	Adaptive Flocking Control of Multiple Unmanned Ground Vehicles by Using a UAV. Lecture Notes in Computer Science, 2015, , 628-637.	1.0	7
35	Neural Adaptive controller for Magnetic levitation system. , 2014, , .		7
36	Neural — Adaptive control based on backstepping and feedback linearization for electro hydraulic servo system. , 2014, , .		7

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37	Attitude control of a Quadrotor using Brain Emotional Learning Based Intelligent Controller. , 2013, , .		23
38	Optimal tuning of Brain Emotional Learning Based Intelligent Controller using Clonal Selection Algorithm. , 2013, , .		11
39	Speed control of a Digital Servo System using parallel distributed compensation controller and Neural Adaptive controller. , 2013, , .		1
40	Speed control of a Digital Servo System using Brain Emotional Learning Based Intelligent Controller. , 2013, , .		12
41	Simulation and implementation of a 300 watt, cascade gama-LC resonant converter. , 2012, , .		0
42	Implementation of a Full Bridge Series-Parallel Resonant DC-DC converter using ANN and SSM controllers. , 2011, , .		1
43	Design, Simulation and implementation of an adaptive controller on base of artificial neural networks for a resonant DC-DC converter. , 2011, , .		4
44	Comparative analysis of ANN and SSM controllers in a ZVCS-Full Bridge Series-Parallel Resonant DC-DC converter. , 2011, , .		0
45	A hybrid ANN and PID classic controller applied to a cascade LC resonant converter. , 2011, , .		1
46	Design, Simulation and Implementation of an Intelligent Battery Charging System. , 2009, , .		5