

Reza Tafreshi

List of Publications by Year in descending order

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65
papers

1,147
citations

516710

16
h-index

454955

30
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all docs

65
docs citations

65
times ranked

1266
citing authors

#	ARTICLE	IF	CITATIONS
1	CLEVERarm: A Lightweight and Compact Exoskeleton for Upper-Limb Rehabilitation. IEEE Robotics and Automation Letters, 2022, 7, 1880-1887.	5.1	17
2	Modelling of petroleum multiphase flow in electrical submersible pumps with shallow artificial neural networks. Ships and Offshore Structures, 2020, 15, 174-183.	1.9	20
3	A Multi-Window Majority Voting Strategy to Improve Hand Gesture Recognition Accuracies Using Electromyography Signal. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 427-436.	4.9	43
4	Observer-based internal model air-fuel ratio control of lean-burn SI engines. IFAC Journal of Systems and Control, 2019, 9, 100065.	1.7	9
5	Digital fuzzy sliding-mode control for a linear parameter-varying air-fuel ratio system. Advances in Mechanical Engineering, 2019, 11, 168781401882210.	1.6	0
6	Kinematic Design Optimization of an Eight Degree-of-Freedom Upper-Limb Exoskeleton. Robotica, 2019, 37, 2073-2086.	1.9	20
7	Full- and Reduced-Order Fault Detection Filter Design With Application in Flow Transmission Lines. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2019, 141, .	1.6	0
8	Fuzzy Sliding-mode Strategy for Air-fuel Ratio Control of Lean-burn Spark Ignition Engines. Asian Journal of Control, 2018, 20, 149-158.	3.0	24
9	Air-fuel ratio control of lean-burn SI engines using the LPV-based fuzzy technique. IET Control Theory and Applications, 2018, 12, 1414-1420.	2.1	14
10	Numerical Evaluation of Pressure Drop Across Orifices for Different Gas-Liquid Mixtures. , 2018, , .		1
11	An efficient approach to recognize hand gestures using machine-learning algorithms. , 2018, , .		10
12	Subject-independent hand gesture recognition using normalization and machine learning algorithms. Journal of Computational Science, 2018, 27, 69-76.	2.9	67
13	EMG and IMU based real-time HCI using dynamic hand gestures for a multiple-DoF robot arm. Journal of Intelligent and Fuzzy Systems, 2018, 35, 861-876.	1.4	12
14	Liquid Holdup Discretized Solution's Existence and Uniqueness Using a Simplified Averaged One-Dimensional Upward Two-Phase Flow Transient Model. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	1.6	2
15	Design and kinematic analysis of a novel upper limb exoskeleton for rehabilitation of stroke patients. , 2017, 2017, 759-764.		42
16	Designing a Surrogate Fuel for Gas-to-Liquid Derived Diesel. Energy & Fuels, 2017, 31, 11266-11279.	5.1	24
17	Real-time EMG-based Human Machine Interface using dynamic hand gestures. , 2017, , .		4
18	A computational approach for human-like motion generation in upper limb exoskeletons supporting scapulohumeral rhythms. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
19	TAMU CLEVERarm: A novel exoskeleton for rehabilitation of upper limb impairments. , 2017, , .		7
20	An Expert System for Differential Diagnosis of Myocardial Infarction. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, .	1.6	5
21	Low-Dimensional Modeling of Transient Two-Phase Flow in Pipelines. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, .	1.6	12
22	Robustness of Using Dynamic Motions and Template Matching to the Limb Position Effect in Myoelectric Classification. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, .	1.6	11
23	An intelligent approach to optimize multiphase subsea oil fields lifted by electrical submersible pumps. Journal of Computational Science, 2016, 15, 50-59.	2.9	20
24	Detection of cardiovascular abnormalities through 5-lead system algorithm. , 2016, , .		0
25	Model-based design and analysis of a subsea high integrity pressure protection system (HIPPS). , 2016, , .		0
26	Model-based early gas kick and well loss detection. , 2016, , .		3
27	Myoelectric pattern recognition using dynamic motions with limb position changes. , 2016, , .		6
28	Effects of alumina phases as nickel supports on deep reactive adsorption of (4,6-dimethyl) dibenzothiophene: Comparison between γ , δ , and ϵ -alumina. Applied Catalysis B: Environmental, 2016, 180, 312-323.	20.2	47
29	A Predictive Strategy to Control Time-Varying Delay Systems: Lean-Burn Engines. , 2015, , .		2
30	Neuro-Predictive Control of an Infrared Dryer with a Feedforward-Feedback Approach. Asian Journal of Control, 2015, 17, 1972-1977.	3.0	3
31	Enhanced automated sleep spindle detection algorithm based on synchrosqueezing. Medical and Biological Engineering and Computing, 2015, 53, 635-644.	2.8	16
32	Active Tuned Mass Damper. , 2015, , .		4
33	Output Tracking in First-Order Time-Delay Systems: A Dynamic Control Approach. IFAC-PapersOnLine, 2015, 48, 269-274.	0.9	2
34	Evaluation of the induced voltage in driven electrodes of piezoelectric tube actuators for sensorless nanopositioning. , 2015, , .		2
35	A performance comparison of hand motion EMG classification. , 2014, , .		16
36	Stabilizing dynamic control design for systems with time-varying delay in control loop. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
37	Effect of resistive inspiratory and expiratory loading on cardio-respiratory interaction in healthy subjects. , 2014, 2014, 710-3.		0
38	A Performance Comparison of EMG Classification Methods for Hand and Finger Motion. , 2014, , .		12
39	Second-Order Sliding Mode Strategy for Airâ€“Fuel Ratio Control of Lean-Burn SI Engines. IEEE Transactions on Control Systems Technology, 2014, 22, 1374-1384.	5.2	30
40	A dynamic feedback control strategy for control loops with time-varying delay. International Journal of Control, 2014, 87, 887-897.	1.9	14
41	Acquiring and analyzing electrocardiograms via smartphone to detect cardiovascular abnormalities. , 2014, , .		7
42	A portable 12-lead ECG wireless medical system for continuous cardiac-activity monitoring. , 2014, , .		5
43	Automated analysis of ECG waveforms with atypical QRS complex morphologies. Biomedical Signal Processing and Control, 2014, 10, 41-49.	5.7	34
44	Improved spindle detection through intuitive pre-processing of electroencephalogram. Journal of Neuroscience Methods, 2014, 233, 1-12.	2.5	14
45	Subsea Production Two-Phase Flow Modeling and Control of Pipeline and Manifold Assemblies. , 2014, , .		3
46	Linear dynamic parameterâ€“varying sliding manifold for airâ€“fuel ratio control in leanâ€“burn engines. IET Control Theory and Applications, 2013, 7, 1319-1329.	2.1	21
47	Predicting Epileptic Seizures in Scalp EEG Based on a Variational Bayesian Gaussian Mixture Model of Zero-Crossing Intervals. IEEE Transactions on Biomedical Engineering, 2013, 60, 1401-1413.	4.2	139
48	Detection of Epileptic Seizures in Scalp Electroencephalogram. Journal of Clinical Neurophysiology, 2012, 29, 1-16.	1.7	18
49	A Physics-Based Modeling Approach of a Natural Gas HCCI Engine. , 2012, , .		1
50	A parameter-varying filtered PID strategy for airâ€“fuel ratio control of spark ignition engines. Control Engineering Practice, 2012, 20, 805-815.	5.5	60
51	A Comprehensive Algorithm for the Analysis of ECG Waveforms. , 2012, , .		3
52	Specific change in spectral power of fetal heart rate variability related to fetal acidemia during labor: Comparison between preterm and term fetuses. Early Human Development, 2012, 88, 203-207.	1.8	23
53	Epileptic seizure prediction using variational mixture of Gaussians. , 2011, 2011, 7549-52.		2
54	Real-Time Detection of Myocardial Infarction by Evaluation of ST-Segment in Digital ECG. Journal of Medical Imaging and Health Informatics, 2011, 1, 225-230.	0.3	16

#	ARTICLE	IF	CITATIONS
55	Identification of Air-Fuel Ratio Dynamics in SI Engines using Linear Parameter Varying Techniques. , 2011, , .		3
56	Automated Real-Time Epileptic Seizure Detection in Scalp EEG Recordings Using an Algorithm Based on Wavelet Packet Transform. IEEE Transactions on Biomedical Engineering, 2010, 57, 1639-1651.	4.2	175
57	Predicting temporal lobe epileptic seizures based on zero-crossing interval analysis in scalp EEG. , 2010, 2010, 5537-40.		17
58	An automatic sleep spindle detector based on wavelets and the teager energy operator. , 2009, 2009, 2596-9.		31
59	An entropy-based approach to predict seizures in temporal lobe epilepsy using scalp EEG. , 2009, 2009, 228-31.		21
60	Using the wavelet packet transform in automatic sleep analysis. IFMBE Proceedings, 2009, , 397-401.	0.3	1
61	A novel wavelet-based index to detect epileptic seizures using scalp EEG signals. , 2008, 2008, 919-22.		11
62	The Future of Automatic EEG Monitoring in the Intensive Care. , 2008, , .		1
63	Electroconvulsive Therapy: A Model for Seizure Detection by a Wavelet Packet Algorithm. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 1916-9.	0.5	3
64	Seizure Detection by a Novel Wavelet Packet Method. , 2006, 2006, 6141-4.		6
65	Local discriminant bases in machine fault diagnosis using vibration signals. Integrated Computer-Aided Engineering, 2005, 12, 147-158.	4.6	9