

Seta O Bogosyan

List of Publications by Year in descending order

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84
papers

1,647
citations

759233

12
h-index

330143

37
g-index

91
all docs

91
docs citations

91
times ranked

1351
citing authors

#	ARTICLE	IF	CITATIONS
1	An Experimental Study on Classification of Drivers Based on Confidence and Command of Driving. , 2020, , .		1
2	Gap Based Novel Approach for Safe and Fast Obstacle Avoidance for Autonomous Platforms. , 2020, , .		4
3	MTD Based Novel Scheme for BMS Security against CAN Bus Attacks during BEV Charging. , 2020, , .		1
4	Novel Strategies for Security-hardened BMS for Extremely Fast Charging of BEVs. , 2020, , .		6
5	Oscillation Preventing Closed-Loop Controllers via Genetic Algorithm for Biped Walking on Flat and Inclined Surfaces. International Journal of Advanced Computer Science and Applications, 2020, 11, .	0.7	0
6	Performance Analysis of SVM, ANN and KNN Methods for Acoustic Road-Type Classification. , 2019, , .		2
7	A Low-Cost Embedded Data Collection System for Traction Control Systems in Electric Vehicles. , 2019, , .		1
8	Remotely Accessible Open Test Platform for CPS Transportation and CAV Research. , 2019, , .		0
9	Design and Kinematics of 4- DoF Multi-Purpose Wearable Mechanical Arm (MUWA) Support for Enhanced Operation Stability. , 2019, , .		1
10	Hunting stability and derailment analysis of the high-speed railway vehicle moving on curved tracks. International Journal of Heavy Vehicle Systems, 2019, 26, 824.	0.2	5
11	Cascade Control of SATCOM on the Move (SOTM) Antennas with Jacobian Operator. , 2019, , .		1
12	Evaluation of driver stress level with survey, galvanic skin response sensor data, and force-sensing resistor data. Advances in Mechanical Engineering, 2019, 11, 168781401989155.	1.6	13
13	Re-adhesion control strategy based on the optimal slip velocity seeking method. Journal of Modern Transportation, 2018, 26, 36-48.	2.5	11
14	Comparison of the re-adhesion control strategies in high-speed train. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2018, 232, 92-105.	1.0	5
15	Stability and bifurcation analysis of the non-linear railway bogie dynamics. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2018, 232, 2787-2802.	2.1	4
16	Improved bilateral teleoperation with proactive haptic sensing and transmission. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2018, 232, 79-91.	1.0	3
17	Neural Network based Trading Signal Generation in Cypto-Currency Markets. , 2018, , .		0
18	Disturbance Observer Based Power Control of DFIG Under Unbalanced Network Conditions. Electric Power Components and Systems, 2018, 46, 1448-1461.	1.8	3

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19	Derailment analysis based on a new coupled multibody railway vehicle model. <i>Journal of Coupled Systems and Multiscale Dynamics</i> , 2018, 6, 1-29.	0.2	1
20	Modeling, simulation and slip control of a railway vehicle integrated with traction power supply. <i>Cogent Engineering</i> , 2017, 4, 1312680.	2.2	8
21	Dynamic Investigation of the Hunting Motion of a Railway Bogie in a Curved Track via Bifurcation Analysis. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-15.	1.1	6
22	Modeling and control of a doubly fed induction generator with a disturbance observer: a stator voltage oriented approach. <i>Turkish Journal of Electrical Engineering and Computer Sciences</i> , 2016, 24, 961-972.	1.4	12
23	Comparative Analysis of a Selected DCT-Based Compression Scheme for Haptic Data Transmission. <i>IEEE Transactions on Industrial Informatics</i> , 2016, 12, 1146-1155.	11.3	16
24	Modeling and validation of turbocharged diesel engine airpath and combustion systems. <i>International Journal of Automotive Technology</i> , 2016, 17, 13-34.	1.4	6
25	Wavelet packet transform-based compression for teleoperation. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2015, 229, 639-651.	1.0	4
26	A Novel Current Controller Scheme for Doubly Fed Induction Generators. <i>Automatika</i> , 2015, 56, 186-195.	2.0	7
27	AERO-beam: An open-architecture test-bed for research and education in cyber-physical systems. , 2015, , .		3
28	Predictive Input Delay Compensation with Grey Predictor for Networked Control System. <i>International Journal of Computers, Communications and Control</i> , 2015, 11, 67.	1.8	4
29	Experimental Evaluation of Novel Master-Slave Configurations for Position Control under Random Network Delay and Variable Load for Teleoperation. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-12.	1.1	1
30	A novel rotor current controller scheme for grid connected doubly fed induction generators. , 2014, , .		0
31	Fuzzy based parameter tuning of EKF observers for sensorless control of Induction Motors. , 2014, , .		8
32	Search-and rescue robots for integrated research and education in Cyber-Physical Systems. , 2013, , .		8
33	WPT based compression for bilateral control. , 2013, , .		1
34	Performance comparison of compression techniques used in bilateral control. , 2013, , .		1
35	A new fuzzy speed planning method for safe navigation. , 2012, , .		5
36	Network in the loop platform for research and training in bilateral control. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
37	Fast locking of PLLs using fuzzy scheduled SMC. , 2012, , .		1
38	A new fuzzy speed control strategy considering lateral vehicle dynamics. , 2012, , .		2
39	Welcome messages. , 2011, , .		0
40	Fast locking of PLLs using fuzzy gain scheduling. , 2011, , .		1
41	A Sliding Mode Based Neural Network For Data Fusion And Estimation Using Multiple Sensors. Intelligent Automation and Soft Computing, 2011, 17, 477-493.	2.1	1
42	High order sliding mode control of a space robot manipulator. , 2011, , .		16
43	Joint IAS/PELS/IES German Chapter Meeting at SMA Technology AG, Kassel [Chapter News]. IEEE Industrial Electronics Magazine, 2011, 5, 74-75.	2.6	0
44	A Novel ECMS and Combined Cost Map Approach for High-Efficiency Series Hybrid Electric Vehicles. IEEE Transactions on Vehicular Technology, 2011, 60, 3557-3570.	6.3	121
45	Control and measurement delay compensation in bilateral position control. , 2011, , .		4
46	Multi-sensor data fusion of DCM based orientation estimation for land vehicles. , 2011, , .		11
47	Comparative evaluation of two chattering-free sliding mode controllers for the control of MEM optical switches. , 2010, , .		1
48	Delay compensation for nonlinear teleoperators using predictor observers. , 2010, , .		1
49	Sliding mode optimum control for APU of series hybrid electric vehicles. , 2010, , .		6
50	Current Trends in Industrial Electronics Education. IEEE Transactions on Industrial Electronics, 2010, 57, 3245-3252.	7.9	53
51	Sliding mode and EKF observers for communication delay compensation in bilateral control systems. , 2010, , .		6
52	Multipurpose wireless sensor network platform for research and training in data fusion, and multi-feature target tracking. , 2009, , .		3
53	Novel observers for compensation of communication delay in bilateral control systems. , 2009, , .		6
54	Recent advances in renewable energy employment. IEEE Industrial Electronics Magazine, 2009, 3, 54-55.	2.6	3

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55	Current Trends in Remote Laboratories. IEEE Transactions on Industrial Electronics, 2009, 56, 4744-4756.	7.9	368
56	Fast locking of PLLs using sliding mode control. , 2009, , .		4
57	Chapter chair receives national engineering award [Chapter news]. IEEE Industrial Electronics Magazine, 2008, 2, 55-55.	2.6	0
58	Experimental Evaluation of Braided EKF for Sensorless Control of Induction Motors. IEEE Transactions on Industrial Electronics, 2008, 55, 620-632.	7.9	152
59	High-order, sliding-mode-based precise control of direct-drive systems under heavy uncertainties. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2007, 221, 791-805.	1.0	2
60	H $\hat{\alpha}$ model matching two-degree-of-freedom control with adaptive torque ripple cancellation for high performance direct drive systems. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2007, 221, 407-421.	1.0	0
61	A Novel Model Validation and Estimation Approach for Hybrid Serial Electric Vehicles. IEEE Transactions on Vehicular Technology, 2007, 56, 1485-1497.	6.3	33
62	Speed-Sensorless Estimation for Induction Motors Using Extended Kalman Filters. IEEE Transactions on Industrial Electronics, 2007, 54, 272-280.	7.9	275
63	Braided extended Kalman filters for sensorless estimation in induction motors at high-low/zero speed. IET Control Theory and Applications, 2007, 1, 987-998.	2.1	42
64	Sensorless $\hat{\alpha}$ estimation of induction motors in wide speed range. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2007, 26, 1288-1303.	0.9	6
65	Development of Remotely Accessible Matlab/Simulink Based Electrical Drive Experiments. , 2007, , .		15
66	Sensorless Sliding Mode Position Control of Induction Motors Using Braided Extended Kalman Filters. , 2007, , .		3
67	Switching EKF technique for rotor and stator resistance estimation in speed sensorless control of IMs. Energy Conversion and Management, 2007, 48, 3120-3134.	9.2	49
68	Development of a Client-Server Communication Method for Matlab/ Simulink Based Remote Robotics Experiments. , 2006, , .		15
69	Sliding mode based powertrain control for efficiency improvement in series hybrid-electric vehicles. IEEE Transactions on Power Electronics, 2006, 21, 779-790.	7.9	99
70	Comparison of Fuzzy Logic Based DC Voltage Control Strategies for a Three Phase Parallel Active Filter. Intelligent Automation and Soft Computing, 2006, 12, 211-216.	2.1	1
71	Hardware-in-the-loop simulation of PUMA 560 via internet. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	9
72	Sliding Mode Based Position Control of a Flexible-Link Arm. , 2006, , .		0

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73	Speed sensorless direct torque control of IMs with rotor resistance estimation. Energy Conversion and Management, 2005, 46, 335-349.	9.2	57
74	Improved Powertrain Control for an HE-HMMWV. , 2005, , .		1
75	An EKF-Based Estimator for the Speed Sensorless Vector Control of Induction Motors. Electric Power Components and Systems, 2005, 33, 727-744.	1.8	18
76	EKF based sensorless direct torque control of IMs in the low speed range. , 2005, , .		12
77	A nonlinear load simulator for robot manipulators. , 0, , .		16
78	EKF based estimation for direct vector control of induction motors. , 0, , .		11
79	Hardware in the loop simulation of robot manipulators through Internet in mechatronics education. , 0, , .		27
80	An extended Kalman filter based sensorless direct vector control of induction motors. , 0, , .		7
81	An EKF based solution for the compensation of load, friction and torque ripple in direct drive systems. , 0, , .		9
82	A Diesel Engine Map Model Based Observer for HEVs. , 0, , .		3
83	Partial feedback linearization control of a single flexible link robot manipulator. , 0, , .		7
84	Tip position control of a flexible-link arm. , 0, , .		2