Frantisek Durovsky

List of Publications by Year
in descending order

		1307594	1199594
28 papers	**310** citations	**7** h-index	**12** g-index
28 all docs	**28** docs citations	**28** times ranked	**239** citing authors

#	Article	IF	Citations
1	A Comparative Study and Optimization of Switching Functions for Sliding-Mode Observer in Sensorless Control of PMSM. Energies, 2022, 15, 2689.	3.1	9
2	Measurement and Modelling of a Cycloidal Gearbox in Actuator with Permanent Magnet Synchronous Machine. Machines, 2022, 10, 344.	2.2	3
3	Multiport Power Converter. , 2021, , .		1
4	Speed Sensorless Control of PMSM with Unscented Kalman Filter and Initial Rotor Alignment. , 2019, , .		5
5	Skid Steering of Robotic Vehicle for Autonomous Applications. , 2019, , .		1
6	Feedforward Finite Control Set Model Predictive Position Control of PMSM. , 2018, , .		9
7	Autonomous flying with quadrocopter using fuzzy control and ArUco markers. Intelligent Service Robotics, 2017, 10, 185-194.	2.6	44
8	Industrial controller-based dynamometer with dynamic emulation of mechanical loads. Electrical Engineering, 2017, 99, 1245-1254.	2.0	14
9	Design and analysis of torque control for load drive with dynamic emulation. , 2017, , .		1
10	Motor control of skid steered robotic vehicle. , 2017, , .		0
11	Pathfinderâ€"Development of Automated Guided Vehicle for Hospital Logistics. IEEE Access, 2017, 5, 26892-26900.	4.2	53
12	Design of load torque and mechanical speed estimator of PMSM with unscented Kalman filter â€" An engineering guide. , 2017, , .		20
13	Material Tracking with Dynamic Torque Adaptation for Tension Control in Wire Rod Mill. Advances in Electrical and Electronic Engineering, 2017, 15, .	0.3	1
14	Finite Control Set Model Predictive Speed Control of a DC Motor. Mathematical Problems in Engineering, 2016, 2016, 1-10.	1.1	15
15	Dynamic emulation of mechanical loads â€" Analysis and implementation into industrial drive. , 2016, , .		8
16	Position Controller for PMSM Based on Finite Control Set Model Predictive Control. Elektronika Ir Elektrotechnika, 2016, 22, .	0.8	11
17	A HARDWARE-IN-THE-LOOP SIMULATOR BASED ON REAL SKODA SUPERB VEHICLE AND RT-LAB/CARSIM. Acta Polytechnica, 2015, 55, 366.	0.6	1
18	Cost functions in finite control set model predictive control of permanent magnet DC machine. , 2015, , .		7

#	Article	IF	Citations
19	HIL Simulator of Drives of an Industrial Robot with 6 DOF. Elektronika Ir Elektrotechnika, 2015, 21, .	0.8	4
20	Measurement of Transmission Nonlinearities in Servodrives. Applied Mechanics and Materials, 2014, 613, 248-252.	0.2	0
21	Dynamic emulation of mechanical loads with backlash based on rapid control prototyping. , 2014, , .		12
22	Dynamic Emulation of Mechanical Loadsâ€"An Approach Based on Industrial Drives' Features. Automatika, 2013, 54, 356-363.	2.0	18
23	Control of a Test Bench for Dynamic Emulation of Mechanical Loads. Procedia Engineering, 2012, 48, 352-357.	1.2	3
24	Modeling and simulation of the BLDC motor in MATLAB GUI. , 2011, , .		48
25	Integrated mechatronic systems laboratory. , 2010, , .		2
26	Motion control of steel sheet shears with rocking knife mechanism. , 2008, , .		1
27	Analysis of Robotic System Motion in SimMechanics and MATLAB GUI Environment. , 0, , .		13
28	Implementation of Robot Control Algorithms by Real-Time Control System. International Journal of Engineering Research in Africa, 0, 18, 112-119.	0.7	6