Chowarit Mitsantisuk

List of Publications by Year
in descending order

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36	511	933447 10	1125743 13
papers	citations	h-index	g-index

36	36	36	383
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Estimation of Action/Reaction Forces for the Bilateral Control Using Kalman Filter. IEEE Transactions on Industrial Electronics, 2012, 59, 4383-4393.	7.9	93
2	Force Control of Humanâ€“Robot Interaction Using Twin Direct-Drive Motor System Based on Modal Space Design. IEEE Transactions on Industrial Electronics, 2010, 57, 1383-1392.	7.9	66
3	Kalman-Filter-Based Sensor Integration of Variable Power Assist Control Based on Human Stiffness Estimation. IEEE Transactions on Industrial Electronics, 2009, 56, 3897-3905.	7.9	61
4	Control of Interaction Force of Twin Direct-Drive Motor System Using Variable Wire Rope Tension With Multisensor Integration. IEEE Transactions on Industrial Electronics, 2012, 59, 498-510.	7.9	41
5	Disturbance Observer and Kalman Filter Based Motion Control Realization. IEEJ Journal of Industry Applications, 2018, 7, 1-14.	1.1	39
6	Kalman Filter-Based Disturbance Observer and its Applications to Sensorless Force Control. Advanced Robotics, 2011, 25, 335-353.	1.8	33
7	Variable mechanical stiffness control based on human stiffness estimation. , 2011, , .		14
8	High Performance Velocity Estimation for Controllers with Short Processing Time by FPGA. IEEJ Journal of Industry Applications, 2012, 1, 55-61.	1.1	14
9	Parameter estimation of flexible robot using multi-encoder based on disturbance observer. , 2012, , .		13
10	FPGA-based Wideband Force Control System with Friction-Free and Noise-Free Force Observation. IEEJ Journal of Industry Applications, 2012, 1, 178-190.	1.1	12
11	Resonance ratio control based on coefficient diagram method for force control of flexible robot system. , 2012, , .		11
12	Position and Force Control of the SCARA Robot Based on Disturbance Observer. Procedia Computer Science, 2016, 86, 116-119.	2.0	11
13	FPGA-based wideband force sensing with Kalman-filter-based disturbance observer. , 2010, , .		10
14	High Performance Force Sensing Based on Kalman-Filter-Based Disturbance Observer Utilizing FPGA. IEEJ Transactions on Industry Applications, 2011, 131, 334-342.	0.2	10
15	Sensorless Force Estimation of SCARA Robot System with Friction Compensation. Procedia Computer Science, 2016, 86, 120-123.	2.0	8
16	Sensorless Interaction Force Control Based on B-Spline Function for Human-Robot Systems. SICE Journal of Control Measurement and System Integration, 2008, 1, 452-459.	0.7	7
17	Combining position and acceleration information for high performance of bilateral control using Kalman-filter-based disturbance observer. , 2010, , .		7
18	Variable power assist control of twin direct-drive motor system based on human stiffness estimation. , 2008, , .		6

#	Article	IF	Citations
19	Enhancing transparency on a ball screw teleoperation robot system using a novel velocity estimation method with FPGA. Advanced Robotics, 2013, 27, 211-222.	1.8	6
20	Force sensorless control with 3D workspace analysis for haptic devices based on delta robot. , 2015, , .		6
21	Sensorless interaction force control based on modal space design for twin belt-driven system. , 2007, , .		5
22	Multi-sensor fusion in Kalman-filter for high performance force sensing. , 2011, , .		5
23	Design of ball-cage based miniature stroke for integration in a flexible actuator with thrust wire. , 2011, , .		5
24	Improving bilateral control feedback by using novel velocity and acceleration estimation methods in FPGA. , 2012, , .		5
25	Transparency improvement in a bilateral motion-scaling control using Kalman-filter-based disturbance observer. , 2014, , .		4
26	Haptic human-robot collaboration system based on delta robot with gravity compensation. , 2016, , .		4
27	Analysis of interaction force of wire-based robot using variable wire rope tension control. , 2009, , .		3
28	Force sensation improvement in bilateral control of different master-slave mechanism based on high-order disturbance observer. , 2012, , .		3
29	Robotics-assisted rehabilitation therapy for the hands and wrists using force sensorless bilateral control with shadow and mirror mode. , 2015, , .		3
30	Stiffness modeling across transition temperatures in virtual environments by B-spline interpolation. , 2010, , .		2
31	Wideband force control system based on friction free and noise free observation. , 2012, , .		2
32	Compensation of backlash for improving the efficiency of flexible actuator in bilateral teleoperation system. , 2011, , .		1
33	Bilateral Control Based on Disturbance Observer of Delta Robot with Gravity Compensation. Applied Mechanics and Materials, 0, 781, 445-449.	0.2	1
34	Automatic Load Regulation Using B-Spline Interpolation. , 2007, , .		0
35	Study on sensorless force control based on disturbance observer with friction force compensation. , 2013, , .		0
36	Development and Analysis of a Wire-Based Robot With Twin Direct-Drive Motor System. IEEJ Transactions on Industry Applications, 2010, 130, 385-392.	0.2	0