

Giuseppe Orlando

List of Publications by Year in descending order

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55
papers

1,575
citations

394421

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h-index

377865

34
g-index

57
all docs

57
docs citations

57
times ranked

1159
citing authors

#	ARTICLE	IF	CITATIONS
1	A Quasi-Sliding Mode Approach for Robust Control and Speed Estimation of PM Synchronous Motors. IEEE Transactions on Industrial Electronics, 2012, 59, 1096-1104.	7.9	145
2	Actuator Failure Identification and Compensation Through Sliding Modes. IEEE Transactions on Control Systems Technology, 2007, 15, 184-190.	5.2	122
3	Robust stabilization of nonlinear uncertain plants with backlash or dead zone in the actuator. IEEE Transactions on Control Systems Technology, 2002, 10, 158-166.	5.2	116
4	A discrete adaptive variable-structure controller for MIMO systems, and its application to an underwater ROV. IEEE Transactions on Control Systems Technology, 1997, 5, 349-359.	5.2	103
5	Discrete time sliding mode control of robotic manipulators: Development and experimental validation. Control Engineering Practice, 2012, 20, 816-822.	5.5	95
6	An Actuator Failure Tolerant Control Scheme for an Underwater Remotely Operated Vehicle. IEEE Transactions on Control Systems Technology, 2011, 19, 1036-1046.	5.2	84
7	Robust quantized feedback stabilization of linear systems. Automatica, 2008, 44, 2458-2462.	5.0	77
8	Experimental testing of a discrete-time sliding mode controller for trajectory tracking of a wheeled mobile robot in the presence of skidding effects. Journal of Field Robotics, 2002, 19, 177-188.	0.7	76
9	Linear unstable plants with saturating actuators: Robust stabilization by a time varying sliding surface. Automatica, 2007, 43, 88-94.	5.0	70
10	Robust Control of Variable-Speed Wind Turbines Based on an Aerodynamic Torque Observer. IEEE Transactions on Control Systems Technology, 2013, 21, 1199-1206.	5.2	69
11	Variable structure control of discretized continuous-time systems. IEEE Transactions on Automatic Control, 1998, 43, 1329-1334.	5.7	67
12	Control of mobile robots with uncertainties in the dynamical model: a discrete time sliding mode approach with experimental results. Control Engineering Practice, 2002, 10, 23-34.	5.5	58
13	Robust tracking control of mobile robots in the presence of uncertainties in the dynamical model. Journal of Field Robotics, 2001, 18, 317-323.	0.7	54
14	Minimal Resource Allocating Networks for Discrete Time Sliding Mode Control of Robotic Manipulators. IEEE Transactions on Industrial Informatics, 2012, 8, 733-745.	11.3	54
15	Fully sensorless robust control of variable-speed wind turbines for efficiency maximization. Automatica, 2013, 49, 3023-3031.	5.0	38
16	Robust Stabilization of Multi Input Plants With Saturating Actuators. IEEE Transactions on Automatic Control, 2010, 55, 419-425.	5.7	29
17	A unified observer for robust sensorless control of DC-DC converters. Control Engineering Practice, 2017, 61, 21-27.	5.5	29
18	Finger Thermoregulatory Model Assessing Functional Impairment in Raynaud's Phenomenon. Annals of Biomedical Engineering, 2009, 37, 2631-2639.	2.5	21

#	ARTICLE	IF	CITATIONS
19	Sensorless power factor control for mixed conduction mode boost converter using passivity-based control. IET Power Electronics, 2014, 7, 2988-2995.	2.1	20
20	Scrotal Thermoregulatory Model and Assessment of the Impairment of Scrotal Temperature Control in Varicocele. Annals of Biomedical Engineering, 2011, 39, 664-673.	2.5	19
21	An Embedded Strategy for Online Identification of PMSM Parameters and Sensorless Control. IEEE Transactions on Control Systems Technology, 2019, 27, 2444-2452.	5.2	18
22	Transient Improvement of Variable Structure Controlled Systems Via Multi-Model Switching Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2002, 124, 321-326.	1.6	18
23	A Discrete-time VS Controller based on RBF Neural Networks for PMSM Drives. Asian Journal of Control, 2014, 16, 396-408.	3.0	16
24	Sliding-mode control of discrete-time linear plants with input saturation: application to a twin-rotor system. International Journal of Control, 2014, 87, 1523-1535.	1.9	12
25	Sensorless efficient fault-tolerant control of wind turbines with geared generator. Automatica, 2015, 62, 161-167.	5.0	12
26	Control Systems with Saturating Inputs. Lecture Notes in Control and Information Sciences, 2012, , .	1.0	12
27	Model predictive control solution for Permanent Magnet Synchronous Motors. , 2013, , .		11
28	Passivity-Based PFC for Interleaved Boost Converter of PMSM drives. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 128-133.	0.4	11
29	Current sensorless solution for PFC boost converter operating both in DCM and CCM. , 2013, , .		10
30	Current sensorless solutions for PFC of boost converters with passivity-based and sliding mode control. , 2013, , .		9
31	A Robust Observer-Based Fault Tolerant Control Scheme for Underwater Vehicles. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2014, 136, .	1.6	9
32	Robust Control of Robot Arms via Quasi Sliding Modes and Neural Networks. Studies in Computational Intelligence, 2015, , 79-105.	0.9	9
33	Explicit sensorless model predictive control of synchronous buck converter. , 2013, , .		8
34	PMSM control with power factor correction: Rapid prototyping scenario. , 2013, , .		8
35	A Rapid Prototyping Scenario for Power Factor Control in Permanent Magnet Synchronous Motor Drives: Control Solutions for Interleaved Boost Converters. Electric Power Components and Systems, 2014, 42, 639-649.	1.8	7
36	A passivity-based solution for CCM-DCM boost converter Power Factor Control. , 2013, , .		6

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37	Time-domain analysis of scrotal thermoregulatory impairment in varicocele. <i>Frontiers in Physiology</i> , 2014, 5, 342.	2.8	6
38	Robust current observer design for DC-DC converters. , 2014, , .		6
39	Synchronous buck converter control via robust periodic pole assignment. , 2014, , .		5
40	A model predictive control for a multi-axis piezo system: Development and experimental validation. , 2017, , .		5
41	Development and experimental validation of a LQG control for a pre-compensated multi-axis piezosystem. , 2017, , .		5
42	Discrete time variable structure control of robotic manipulators based on fully tuned rbf neural networks. , 2010, , .		3
43	Robust control of piezostage for nanoscale three-dimensional images acquisition. , 2016, , .		3
44	A Sliding Mode Observer-Based Icing Detection and Estimation Scheme for Wind Turbines. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2018, 140, .	1.6	3
45	A MIMO variable structure model of the controller of voluntary arm movements: an identification study. <i>Automatica</i> , 1995, 31, 1673-1679.	5.0	2
46	Robust sensorless speed control of permanent magnet synchronous motors: A C2000 based implementation. , 2012, , .		2
47	Sensorless passivity-based control for Mixed Conduction Mode boost converter with power factor correction. , 2013, , .		2
48	On the design of observers robust to load variations for synchronous converters. , 2015, , .		2
49	Variable Structure Sensorless Control of PMSM Drives. <i>Studies in Computational Intelligence</i> , 2016, , 505-530.	0.9	2
50	A sliding mode pitch controller for wind turbines operating in high wind speeds region. , 2017, , .		2
51	Discrete time sliding mode control of robotic manipulators: Development and experimental validation. , 2011, , .		1
52	Boost converter load estimation by a sliding mode approach. <i>International Journal of Circuit Theory and Applications</i> , 2022, 50, 1806-1816.	2.0	1
53	A Supervised Switching Technique for the Robust Stabilization of a Class of Linear Discrete-Time Time-Varying Systems. , 2006, , .		0
54	Discussion on: "Robust Stability Analysis and Tuning of a Predictive Sliding Mode Controller" <i>European Journal of Control</i> , 2010, 16, 289-290.	2.6	0

#	ARTICLE	IF	CITATIONS
55	Nanoscale imaging by micro-cavity scanning microscopy. , 2014, , .		0