

Giuseppe L Cascella

List of Publications by Year in descending order

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46
papers

945
citations

759233

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46
all docs

46
docs citations

46
times ranked

845
citing authors

#	ARTICLE	IF	CITATIONS
1	A Fast Adaptive Memetic Algorithm for Online and Offline Control Design of PMSM Drives. IEEE Transactions on Systems, Man, and Cybernetics, 2007, 37, 28-41.	5.0	205
2	Evaluating the effectiveness of spatial augmented reality in smart manufacturing: a solution for manual working stations. International Journal of Advanced Manufacturing Technology, 2018, 94, 509-521.	3.0	165
3	Optimization of Delayed-State Kalman-Filter-Based Algorithm via Differential Evolution for Sensorless Control of Induction Motors. IEEE Transactions on Industrial Electronics, 2010, 57, 385-394.	7.9	102
4	An Adaptive Multimeme Algorithm for Designing HIV Multidrug Therapies. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2007, 4, 264-278.	3.0	95
5	Sliding Mode Neuro-Adaptive Control of Electric Drives. IEEE Transactions on Industrial Electronics, 2007, 54, 671-679.	7.9	67
6	Surrogate assisted local search in PMSM drive design. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2008, 27, 573-592.	0.9	28
7	Experiencing the Sights, Smells, Sounds, and Climate of Southern Italy in VR. IEEE Computer Graphics and Applications, 2017, 37, 19-25.	1.2	21
8	Variable Structure Control of a Small Ducted Wind Turbine in the Whole Wind Speed Range Using a Luenberger Observer. Energies, 2020, 13, 4647.	3.1	20
9	An Ad Hoc Random Initialization Deep Neural Network Architecture for Discriminating Malignant Breast Cancer Lesions in Mammographic Images. Contrast Media and Molecular Imaging, 2019, 2019, 1-9.	0.8	18
10	A Design Method for the Cogging Torque Minimization of Permanent Magnet Machines with a Segmented Stator Core Based on ANN Surrogate Models. Energies, 2021, 14, 1880.	3.1	17
11	Automated Multistep Parameter Identification of SPMSMs in Large-Scale Applications Using Cloud Computing Resources. Sensors, 2021, 21, 4699.	3.8	17
12	Prudent-Daring vs Tolerant Survivor Selection Schemes in Control Design of Electric Drives. Lecture Notes in Computer Science, 2006, , 805-809.	1.3	17
13	Adaptive sliding-mode observer for field oriented sensorless control of SPMSM. , 0, , .		14
14	SiC-MOSFET and Si-IGBT-Based dc-dc Interleaved Converters for EV Chargers: Approach for Efficiency Comparison with Minimum Switching Losses Based on Complete Parasitic Modeling. Energies, 2020, 13, 4585.	3.1	12
15	Wind Micro-Turbine Networks for Urban Areas: Optimal Design and Power Scalability of Permanent Magnet Generators. Energies, 2018, 11, 2759.	3.1	11
16	Design methodologies for the output power maximisation of synchronous reluctance machines. IET Electric Power Applications, 2019, 13, 1131-1140.	1.8	11
17	Maximisation of power density in permanent magnet machines with the aid of optimisation algorithms. IET Electric Power Applications, 2018, 12, 1067-1074.	1.8	10
18	Application of Memetic Differential Evolution frameworks to PMSM drive design. , 2008, , .		9

#	ARTICLE	IF	CITATIONS
19	Design Procedure for High-Speed PM Motors Aided by Optimization Algorithms. <i>Machines</i> , 2018, 6, 5.	2.2	8
20	A Body Tracking-Based Low-Cost Solution for Monitoring Workersâ€™ Hygiene Best Practices during Pandemics. <i>Sensors</i> , 2020, 20, 6149.	3.8	8
21	SuMRAS: a new SPMSM Parameter Identification in Cloud Computing Environment. , 2021, , .		8
22	A Simple Stator Flux Oriented Induction Motor Control. <i>EPE Journal (European Power Electronics)</i> Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.7	7
23	Adaptive control of electric drives using sliding-mode learning neural networks. , 2005, , .		7
24	A new approach to sensorless vector control of SPMSM with adaptive sliding-mode observer. , 2002, , .		6
25	PMSM rotor double-alignment by PI and sliding-mode controllers. , 0, , .		6
26	Dynamic Performance Comparison of IRFO and SFO-SM Controlled Drives in Field-Weakening Region Using Variable-Saturation Regulators. <i>EPE Journal (European Power Electronics and Drives Journal)</i> , 2006, 16, 36-43.	0.7	6
27	A Surrogate Assisted Hooke-Jeeves Algorithm to Optimize the Control System of a PMSM Drive. , 2006, , .		5
28	A random initialization deep neural network for discriminating malignant breast cancer lesions. , 2019, 2019, 912-915.		5
29	Series solution of beams with variable cross-section. <i>Procedia Manufacturing</i> , 2020, 44, 489-496.	1.9	5
30	Electric Drive Supervisor for Milling Process 4.0 Automation: A Process Analytical Approach with IIoT NIR Devices for Common Wheat. <i>Sensors</i> , 2020, 20, 1147.	3.8	5
31	Energy metering optimization in flour mill plants for ISO 50001 implementation. , 2016, , .		4
32	Mechanical Refinements for the Stress Reduction of High-Speed Synchronous Reluctance Machines. , 2018, , .		4
33	Stator Flux Oriented Sliding Mode Control of Sensorless Induction Motor Drives by Kalman Filter. , 2007, , .		3
34	Stator Flux Oriented control of induction motors using variable-saturation regulators. , 2008, , .		3
35	Review on the Traditional and Integrated Passives: State-of-the-Art Design and Technologies. <i>Energies</i> , 2022, 15, 88.	3.1	3
36	Experimental Simplex-Genetic Algorithm for Self-Commissioning of Electric Drives. <i>EPE Journal (European Power Electronics and Drives Journal)</i> , 2007, 17, 31-37.	0.7	2

#	ARTICLE	IF	CITATIONS
37	Differential evolution optimization of DSKF algorithm for sensorless SFO control of IM drives. , 2008, , .		2
38	Optimization of DSKF-based algorithm for sensorless SFO-SM control of IMs using differential evolution. , 2008, , .		2
39	HGA-based Auto-tuning of Peltier coolers in PAIS project: New environmental monitoring and early wildfire detection system. , 2009, , .		2
40	Transient torque response improvement in presence of axial saturation due to skewing of rotor slots in induction motors. , 0, , .		1
41	An adaptive prudent-daring evolutionary algorithm for noise handling in on-line PMSM drive design. , 2007, , .		1
42	Sensorless stator flux oriented control of IMS using a new Delayed-State KF-based algorithm. Power Electronics Specialist Conference (PESC), IEEE, 2008, , .	0.0	1
43	Aeronautical hybrid propulsion for More Electric Aircraft: a case of study. , 2018, , .		1
44	COVID-19: contact and gesture monitoring using PROUD Technology. Occupational Medicine, 2020, 70, 334-334.	1.4	1
45	Improvement of Indirect Rotor Flux Orientation Control of Induction Motors with Skewed Rotor Bars. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	0
46	Design of position controller for PMSM drive in pais project for early wildfire detection by means of differential evolution with Scale Factor Local Search. , 2010, , .		0