

Josã© Manuel Lopez-Guede

List of Publications by Year in descending order

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Version: 2024-02-01

97
papers

984
citations

516710

16
h-index

526287

27
g-index

105
all docs

105
docs citations

105
times ranked

1069
citing authors

#	ARTICLE	IF	CITATIONS
1	Neural architecture search for the estimation of relative positioning of the autonomous mobile robot. Logic Journal of the IGPL, 2023, 31, 634-647.	1.5	0
2	Hybrid Modeling of Deformable Linear Objects for Their Cooperative Transportation by Teams of Quadrotors. Applied Sciences (Switzerland), 2022, 12, 5253.	2.5	3
3	Energy and thermal modelling of an office building to develop an artificial neural networks model. Scientific Reports, 2022, 12, .	3.3	3
4	Hidden Energy Flow indicator to reflect the outsourced energy requirements of countries. Journal of Cleaner Production, 2021, 278, 123827.	9.3	21
5	High Temperature VLRA Lead Acid Battery SOH Characterization Based on the Evolution of Open Circuit Voltage at Different States of Charge. Jom, 2021, 73, 1251.	1.9	3
6	Active learning for road lane landmark inventory with V-ELM in highly uncontrolled image capture conditions. Neurocomputing, 2021, 438, 259-269.	5.9	5
7	Modeling, simulation and control tools for nZEB: A state-of-the-art review. Renewable and Sustainable Energy Reviews, 2021, 142, 110851.	16.4	33
8	A Battery Management System with EIS Monitoring of Life Expectancy for Leadâ€“Acid Batteries. Electronics (Switzerland), 2021, 10, 1228.	3.1	11
9	A Hybrid Control Approach for the Swing Free Transportation of a Double Pendulum with a Quadrotor. Applied Sciences (Switzerland), 2021, 11, 5487.	2.5	11
10	Automatic Identification Algorithm of Equivalent Electrochemical Circuit Based on Electroscopic Impedance Data for a Lead Acid Battery. Electronics (Switzerland), 2021, 10, 1353.	3.1	4
11	Numerical Modeling of Face Shield Protection against a Sneeze. Mathematics, 2021, 9, 1582.	2.2	9
12	Design and Implementation of a Maximum Power Point Tracking System for a Piezoelectric Wind Energy Harvester Generating High Harmonicity. Sustainability, 2021, 13, 7709.	3.2	3
13	Rotating Microtab Implementation on a DU91W250 Airfoil Based on the Cell-Set Model. Sustainability, 2021, 13, 9114.	3.2	3
14	Self-tuning Yaw Control Strategy of a Horizontal Axis Wind Turbine Based on Machine Learning. Power Systems, 2021, , 879-900.	0.5	0
15	Delamination Fracture Behavior of Unidirectional Carbon Reinforced Composites Applied to Wind Turbine Blades. Materials, 2021, 14, 593.	2.9	8
16	Vanadium Redox Flow Batteries: A Review Oriented to Fluid-Dynamic Optimization. Energies, 2021, 14, 176.	3.1	44
17	Machine-Learning Techniques Applied to Biomass Estimation Using LiDAR Data. Advances in Intelligent Systems and Computing, 2021, , 853-861.	0.6	0
18	Estimating State of Charge and State of Health of Vented NiCd Batteries with Evolution of Electrochemical Parameters. Jom, 2021, 73, 4085.	1.9	2

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19	Modelling hospital readmissions under frailty conditions for healthy aging. <i>Expert Systems</i> , 2020, 37, e12437.	4.5	6
20	Discovery of a possible Well-being Turning Point within energy footprint accounts which may support the degrowth theory. <i>Energy for Sustainable Development</i> , 2020, 59, 22-32.	4.5	12
21	Temperature based maximum power point tracking for photovoltaic modules. <i>Scientific Reports</i> , 2020, 10, 12476.	3.3	14
22	Computational Methods for Modelling and Optimization of Flow Control Devices. <i>Energies</i> , 2020, 13, 3710.	3.1	8
23	Video Image Enhancement and Machine Learning Pipeline for Underwater Animal Detection and Classification at Cabled Observatories. <i>Sensors</i> , 2020, 20, 726.	3.8	40
24	Prediction of Aboveground Biomass from Low-Density LiDAR Data: Validation over <i>P. radiata</i> Data from a Region North of Spain. <i>Forests</i> , 2019, 10, 819.	2.1	10
25	Control of Transitory Take-Off Regime in the Transportation of a Pendulum by a Quadrotor. <i>Lecture Notes in Computer Science</i> , 2019, , 117-126.	1.3	1
26	Editorial: Special issue CISIS 2016. <i>Logic Journal of the IGPL</i> , 2019, 27, 135-136.	1.5	0
27	Neural and statistical predictors for time to readmission in emergency departments: A case study. <i>Neurocomputing</i> , 2019, 354, 3-9.	5.9	8
28	Mechatronic Modeling and Frequency Analysis of the Drive Train of a Horizontal Wind Turbine. <i>Energies</i> , 2019, 12, 613.	3.1	2
29	Estimation of forest biomass from light detection and ranging data by using machine learning. <i>Expert Systems</i> , 2019, 36, e12399.	4.5	4
30	Robust labeling of human motion markers in the presence of occlusions. <i>Neurocomputing</i> , 2019, 353, 96-105.	5.9	9
31	Artificial Neural Network Based Reinforcement Learning for Wind Turbine Yaw Control. <i>Energies</i> , 2019, 12, 436.	3.1	67
32	Hydrogen economy of the fuel cell hybrid power system optimized by air flow control to mitigate the effect of the uncertainty about available renewable power and load dynamics. <i>Energy Conversion and Management</i> , 2019, 179, 152-165.	9.2	44
33	Making physical proofs of concept of reinforcement learning control in single robot hose transport task complete. <i>Neurocomputing</i> , 2018, 271, 95-103.	5.9	3
34	Renewable (REW) / Fuel Cell (FC) Hybrid Power System with mitigation of the REW variability by the FC fuel flow control. , 2018, , .		1
35	Modeling an ANN-based control for optimal operation of PEMFC systems. , 2018, , .		1
36	Fuel Cell (FC) Hybrid Power System with mitigation of the load power variability by the FC fuel flow control. , 2018, , .		2

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37	5 MW Wind Turbine Annual Energy Production Improvement by Flow Control Devices. Proceedings (mdpi), 2018, 2, .	0.2	3
38	Gurney Flap Implementation on a DU91W250 Airfoil. Proceedings (mdpi), 2018, 2, 1448.	0.2	6
39	Analysis of New Strategies to Reach Nearly Zero Energy Buildings (nZEBs). Proceedings (mdpi), 2018, 2, .	0.2	0
40	Longitudinal wind speed time series generation to wind turbine controllers tuning. International Journal of Renewable Energy Development, 2018, 7, 199-204.	2.4	0
41	Power Control Optimization of an Underwater Piezoelectric Energy Harvester. Applied Sciences (Switzerland), 2018, 8, 389.	2.5	16
42	Contributions of Bottom-Up Energy Transitions in Germany: A Case Study Analysis. Energies, 2018, 11, 849.	3.1	32
43	Decoupling between human development and energy consumption within footprint accounts. Journal of Cleaner Production, 2018, 202, 1145-1157.	9.3	90
44	Electrical Behavior Modeling of Solar Panels Using Extreme Learning Machines. Lecture Notes in Computer Science, 2018, , 730-740.	1.3	1
45	Neural Modeling of Fuzzy Controllers for Maximum Power Point Tracking in Photovoltaic Energy Systems. Journal of Electronic Materials, 2018, 47, 4519-4532.	2.2	9
46	Power control optimization of a new contactless piezoelectric harvester. International Journal of Hydrogen Energy, 2017, 42, 18134-18144.	7.1	11
47	Dual model oriented modeling of monocrystalline PV modules based on artificial neuronal networks. International Journal of Hydrogen Energy, 2017, 42, 18103-18120.	7.1	13
48	Predicting Patient Hospitalization after Emergency Readmission. Cybernetics and Systems, 2017, 48, 182-192.	2.5	7
49	Flow Control Devices for Wind Turbines. Lecture Notes in Energy, 2017, , 629-655.	0.3	22
50	Novel control algorithm for MPPT with Boost converters in photovoltaic systems. International Journal of Hydrogen Energy, 2017, 42, 17831-17855.	7.1	31
51	Measuring global effectiveness of integrated electric energy systems. International Journal of Hydrogen Energy, 2017, 42, 18121-18133.	7.1	3
52	Tracing the emerging energy transitions in the Global North and the Global South. International Journal of Hydrogen Energy, 2017, 42, 18045-18063.	7.1	35
53	Real Prediction of Elder People Abnormal Situations at Home. Advances in Intelligent Systems and Computing, 2017, , 31-40.	0.6	0
54	System using a hybrid application for virtual reality 3D drawing. , 2017, , .		0

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55	Microtab Design and Implementation on a 5 MW Wind Turbine. Applied Sciences (Switzerland), 2017, 7, 536.	2.5	27
56	A Short review on the use of renewable energies and model predictive control in buildings. Journal of Energy Systems, 2017, 1, 112-119.	1.5	7
57	Erasmus Innovative European Studies. Advances in Intelligent Systems and Computing, 2017, , 758-765.	0.6	0
58	Neuronal Electrical Behavior Modeling of Solar Panels. Lecture Notes in Computer Science, 2017, , 554-564.	1.3	0
59	Towards Hospitalization After Readmission Risk Prediction Using ELMs. Lecture Notes in Computer Science, 2017, , 384-393.	1.3	0
60	Sliding Mode Real-Time Control of Photovoltaic Systems Using Neural Estimators. International Journal of Photoenergy, 2016, 2016, 1-16.	2.5	6
61	Online fuzzy modulated adaptive PD control for cooperative aerial transportation of deformable linear objects. Integrated Computer-Aided Engineering, 2016, 24, 41-55.	4.6	13
62	A new bit-level permutation image encryption algorithm. , 2016, , .		12
63	Systematic modeling of photovoltaic modules based on artificial neural networks. International Journal of Hydrogen Energy, 2016, 41, 12672-12687.	7.1	31
64	Knowledge Modeling by ELM in RL for SRHT Problem. Lecture Notes in Computer Science, 2016, , 323-331.	1.3	0
65	Lynx: Automatic Elderly Behavior Prediction in Home Telecare. BioMed Research International, 2015, 2015, 1-18.	1.9	12
66	Reinforcement Learning endowed with safe veto policies to learn the control of Linked-Multicomponent Robotic Systems. Information Sciences, 2015, 317, 25-47.	6.9	12
67	Arm Orthosis/Prosthesis Movement Control Based on Surface EMG Signal Extraction. International Journal of Neural Systems, 2015, 25, 1550009.	5.2	16
68	Educational Innovation: Interaction and Relationship Inside A Sub-Module. Procedia, Social and Behavioral Sciences, 2015, 186, 395-400.	0.5	1
69	Educational Innovation in the Computer Architecture Area. Procedia, Social and Behavioral Sciences, 2015, 186, 388-394.	0.5	3
70	A L-MCRS dynamics approximation by ELM for Reinforcement Learning. Neurocomputing, 2015, 150, 116-123.	5.9	7
71	Quasi-stationary state transportation of a hose with quadrotors. Robotics and Autonomous Systems, 2015, 63, 187-194.	5.1	27
72	Training Multiagent Systems by Qâ€ Learning: Approaches and Empirical Results. Computational Intelligence, 2015, 31, 498-512.	3.2	6

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73	Neural Modeling of Hose Dynamics to Speedup Reinforcement Learning Experiments. Lecture Notes in Computer Science, 2015, , 311-319.	1.3	1
74	Reinforcement Learning in Single Robot Hose Transport Task: A Physical Proof of Concept. Advances in Intelligent Systems and Computing, 2015, , 297-306.	0.6	0
75	Pitch Based Wind Turbine Intelligent Speed Setpoint Adjustment Algorithms. Energies, 2014, 7, 3793-3809.	3.1	10
76	Educational Innovation Project in the Field of Industrial Informatics. Procedia, Social and Behavioral Sciences, 2014, 141, 20-24.	0.5	2
77	Retrospective Vision of a Long Term Innovative Experience. Procedia, Social and Behavioral Sciences, 2014, 141, 15-19.	0.5	2
78	Transfer learning with Partially Constrained Models: Application to reinforcement learning of linked multicomponent robot system control. Robotics and Autonomous Systems, 2013, 61, 694-703.	5.1	19
79	STATE-ACTION VALUE FUNCTION MODELED BY ELM IN REINFORCEMENT LEARNING FOR HOSE CONTROL PROBLEMS. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2013, 21, 99-116.	1.9	15
80	A Neural Network Approximation of L-MCRS Dynamics for Reinforcement Learning Experiments. Lecture Notes in Computer Science, 2013, , 317-325.	1.3	5
81	Arm Orthosis/Prosthesis Control Based on Surface EMG Signal Extraction. Lecture Notes in Computer Science, 2013, , 510-519.	1.3	5
82	Visual Detection in Linked Multi-Component Robotic Systems. , 2013, , 78-97.		0
83	IMPROVING THE CONTROL OF SINGLE ROBOT HOSE TRANSPORT. Cybernetics and Systems, 2012, 43, 261-275.	2.5	14
84	Lattice independent component analysis for appearance-based mobile robot localization. Neural Computing and Applications, 2012, 21, 1031-1042.	5.6	5
85	Visual Servoing of Legged Robots. Journal of Mathematical Imaging and Vision, 2012, 42, 196-211.	1.3	1
86	Cooperative Multi-Agent Reinforcement Learning for Multi-Component Robotic Systems: guidelines for future research. Paladyn, 2011, 2, .	2.7	4
87	Concurrent Modular Q-Learning with Local Rewards on Linked Multi-Component Robotic Systems. Lecture Notes in Computer Science, 2011, , 148-155.	1.3	4
88	Towards Concurrent Q-Learning on Linked Multi-Component Robotic Systems. Lecture Notes in Computer Science, 2011, , 463-470.	1.3	5
89	Linked Multicomponent Robotic Systems: Basic Assessment of Linking Element Dynamical Effect. Lecture Notes in Computer Science, 2010, , 73-79.	1.3	9
90	Neuronal Implementation of Predictive Controllers. Lecture Notes in Computer Science, 2010, , 312-319.	1.3	0

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91	Prediction of Bladder Cancer Recurrences Using Artificial Neural Networks. Lecture Notes in Computer Science, 2010, , 492-499.	1.3	0
92	Hybrid Color Space Transformation to Visualize Color Constancy. Lecture Notes in Computer Science, 2010, , 241-247.	1.3	2
93	Economical Implementation of Control Loops for Multi-robot Systems. Lecture Notes in Computer Science, 2009, , 1053-1059.	1.3	3
94	On Distributed Cooperative Control for the Manipulation of a Hose by a Multirobot System. Lecture Notes in Computer Science, 2008, , 673-679.	1.3	3
95	A novel methodology for clinical semantic annotations assessment. Logic Journal of the IGPL, 0, , .	1.5	6
96	Application of Differential Evolution as method of pitch control setting in a wind turbine. Renewable Energy and Power Quality Journal, 0, , 660-666.	0.2	1
97	Visual Detection in Linked Multi-Component Robotic Systems. , 0, , 1516-1532.		0