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List of Publications by Year in descending order

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97
papers

984
citations

516710

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h-index

526287

27
g-index

105
all docs

105
docs citations

105
times ranked

1069
citing authors

#	ARTICLE	IF	CITATIONS
1	Decoupling between human development and energy consumption within footprint accounts. Journal of Cleaner Production, 2018, 202, 1145-1157.	9.3	90
2	Artificial Neural Network Based Reinforcement Learning for Wind Turbine Yaw Control. Energies, 2019, 12, 436.	3.1	67
3	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. Energy Conversion and Management, 2019, 179, 152-165.	9.2	44
4	Vanadium Redox Flow Batteries: A Review Oriented to Fluid-Dynamic Optimization. Energies, 2021, 14, 176.	3.1	44
5	Video Image Enhancement and Machine Learning Pipeline for Underwater Animal Detection and Classification at Cabled Observatories. Sensors, 2020, 20, 726.	3.8	40
6	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
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	Contributions of Bottom-Up Energy Transitions in Germany: A Case Study Analysis. Energies, 2018, 11, 849.	3.1	32
9	Systematic modeling of photovoltaic modules based on artificial neural networks. International Journal of Hydrogen Energy, 2016, 41, 12672-12687.	7.1	31
10	Novel control algorithm for MPPT with Boost converters in photovoltaic systems. International Journal of Hydrogen Energy, 2017, 42, 17831-17855.	7.1	31
11	Quasi-stationary state transportation of a hose with quadrotors. Robotics and Autonomous Systems, 2015, 63, 187-194.	5.1	27
12	Microtab Design and Implementation on a 5 MW Wind Turbine. Applied Sciences (Switzerland), 2017, 7, 536.	2.5	27
13	Flow Control Devices for Wind Turbines. Lecture Notes in Energy, 2017, , 629-655.	0.3	22
14	Hidden Energy Flow indicator to reflect the outsourced energy requirements of countries. Journal of Cleaner Production, 2021, 278, 123827.	9.3	21
15	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
16	Arm Orthosis/Prosthesis Movement Control Based on Surface EMG Signal Extraction. International Journal of Neural Systems, 2015, 25, 1550009.	5.2	16
17	Power Control Optimization of an Underwater Piezoelectric Energy Harvester. Applied Sciences (Switzerland), 2018, 8, 389.	2.5	16
18	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

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19	IMPROVING THE CONTROL OF SINGLE ROBOT HOSE TRANSPORT. <i>Cybernetics and Systems</i> , 2012, 43, 261-275.	2.5	14
20	Temperature based maximum power point tracking for photovoltaic modules. <i>Scientific Reports</i> , 2020, 10, 12476.	3.3	14
21	Online fuzzy modulated adaptive PD control for cooperative aerial transportation of deformable linear objects. <i>Integrated Computer-Aided Engineering</i> , 2016, 24, 41-55.	4.6	13
22	Dual model oriented modeling of monocrystalline PV modules based on artificial neuronal networks. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 18103-18120.	7.1	13
23	Lynx: Automatic Elderly Behavior Prediction in Home Telecare. <i>BioMed Research International</i> , 2015, 2015, 1-18.	1.9	12
24	Reinforcement Learning endowed with safe veto policies to learn the control of Linked-Multicomponent Robotic Systems. <i>Information Sciences</i> , 2015, 317, 25-47.	6.9	12
25	A new bit-level permutation image encryption algorithm. , 2016, , .		12
26	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
27	Power control optimization of a new contactless piezoelectric harvester. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 18134-18144.	7.1	11
28	A Battery Management System with EIS Monitoring of Life Expectancy for Lead-Acid Batteries. <i>Electronics (Switzerland)</i> , 2021, 10, 1228.	3.1	11
29	A Hybrid Control Approach for the Swing Free Transportation of a Double Pendulum with a Quadrotor. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5487.	2.5	11
30	Pitch Based Wind Turbine Intelligent Speed Setpoint Adjustment Algorithms. <i>Energies</i> , 2014, 7, 3793-3809.	3.1	10
31	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
32	Neural Modeling of Fuzzy Controllers for Maximum Power Point Tracking in Photovoltaic Energy Systems. <i>Journal of Electronic Materials</i> , 2018, 47, 4519-4532.	2.2	9
33	Robust labeling of human motion markers in the presence of occlusions. <i>Neurocomputing</i> , 2019, 353, 96-105.	5.9	9
34	Numerical Modeling of Face Shield Protection against a Sneeze. <i>Mathematics</i> , 2021, 9, 1582.	2.2	9
35	Linked Multicomponent Robotic Systems: Basic Assessment of Linking Element Dynamical Effect. <i>Lecture Notes in Computer Science</i> , 2010, , 73-79.	1.3	9
36	Neural and statistical predictors for time to readmission in emergency departments: A case study. <i>Neurocomputing</i> , 2019, 354, 3-9.	5.9	8

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37	Computational Methods for Modelling and Optimization of Flow Control Devices. <i>Energies</i> , 2020, 13, 3710.	3.1	8
38	Delamination Fracture Behavior of Unidirectional Carbon Reinforced Composites Applied to Wind Turbine Blades. <i>Materials</i> , 2021, 14, 593.	2.9	8
39	A L-MCRS dynamics approximation by ELM for Reinforcement Learning. <i>Neurocomputing</i> , 2015, 150, 116-123.	5.9	7
40	Predicting Patient Hospitalization after Emergency Readmission. <i>Cybernetics and Systems</i> , 2017, 48, 182-192.	2.5	7
41	A Short review on the use of renewable energies and model predictive control in buildings. <i>Journal of Energy Systems</i> , 2017, 1, 112-119.	1.5	7
42	Training Multiagent Systems by Q-Learning: Approaches and Empirical Results. <i>Computational Intelligence</i> , 2015, 31, 498-512.	3.2	6
43	Sliding Mode Real-Time Control of Photovoltaic Systems Using Neural Estimators. <i>International Journal of Photoenergy</i> , 2016, 2016, 1-16.	2.5	6
44	Gurney Flap Implementation on a DU91W250 Airfoil. <i>Proceedings (mdpi)</i> , 2018, 2, 1448.	0.2	6
45	A novel methodology for clinical semantic annotations assessment. <i>Logic Journal of the IGPL</i> , 0, , .	1.5	6
46	Modelling hospital readmissions under frailty conditions for healthy aging. <i>Expert Systems</i> , 2020, 37, e12437.	4.5	6
47	Lattice independent component analysis for appearance-based mobile robot localization. <i>Neural Computing and Applications</i> , 2012, 21, 1031-1042.	5.6	5
48	Active learning for road lane landmark inventory with V-ELM in highly uncontrolled image capture conditions. <i>Neurocomputing</i> , 2021, 438, 259-269.	5.9	5
49	A Neural Network Approximation of L-MCRS Dynamics for Reinforcement Learning Experiments. <i>Lecture Notes in Computer Science</i> , 2013, , 317-325.	1.3	5
50	Arm Orthosis/Prosthesis Control Based on Surface EMG Signal Extraction. <i>Lecture Notes in Computer Science</i> , 2013, , 510-519.	1.3	5
51	Towards Concurrent Q-Learning on Linked Multi-Component Robotic Systems. <i>Lecture Notes in Computer Science</i> , 2011, , 463-470.	1.3	5
52	Cooperative Multi-Agent Reinforcement Learning for Multi-Component Robotic Systems: guidelines for future research. <i>Paladyn</i> , 2011, 2, .	2.7	4
53	Estimation of forest biomass from light detection and ranging data by using machine learning. <i>Expert Systems</i> , 2019, 36, e12399.	4.5	4
54	Automatic Identification Algorithm of Equivalent Electrochemical Circuit Based on Electroscopic Impedance Data for a Lead Acid Battery. <i>Electronics (Switzerland)</i> , 2021, 10, 1353.	3.1	4

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55	Concurrent Modular Q-Learning with Local Rewards on Linked Multi-Component Robotic Systems. Lecture Notes in Computer Science, 2011, , 148-155.	1.3	4
56	Educational Innovation in the Computer Architecture Area. Procedia, Social and Behavioral Sciences, 2015, 186, 388-394.	0.5	3
57	Measuring global effectiveness of integrated electric energy systems. International Journal of Hydrogen Energy, 2017, 42, 18121-18133.	7.1	3
58	Making physical proofs of concept of reinforcement learning control in single robot hose transport task complete. Neurocomputing, 2018, 271, 95-103.	5.9	3
59	5 MW Wind Turbine Annual Energy Production Improvement by Flow Control Devices. Proceedings (mdpi), 2018, 2, .	0.2	3
60	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
61	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
62	Rotating Microtab Implementation on a DU91W250 Airfoil Based on the Cell-Set Model. Sustainability, 2021, 13, 9114.	3.2	3
63	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
64	Economical Implementation of Control Loops for Multi-robot Systems. Lecture Notes in Computer Science, 2009, , 1053-1059.	1.3	3
65	Hybrid Modeling of Deformable Linear Objects for Their Cooperative Transportation by Teams of Quadrotors. Applied Sciences (Switzerland), 2022, 12, 5253.	2.5	3
66	Energy and thermal modelling of an office building to develop an artificial neural networks model. Scientific Reports, 2022, 12, .	3.3	3
67	Educational Innovation Project in the Field of Industrial Informatics. Procedia, Social and Behavioral Sciences, 2014, 141, 20-24.	0.5	2
68	Retrospective Vision of a Long Term Innovative Experience. Procedia, Social and Behavioral Sciences, 2014, 141, 15-19.	0.5	2
69	Fuel Cell (FC) Hybrid Power System with mitigation of the load power variability by the FC fuel flow control. , 2018, , .		2
70	Mechatronic Modeling and Frequency Analysis of the Drive Train of a Horizontal Wind Turbine. Energies, 2019, 12, 613.	3.1	2
71	Hybrid Color Space Transformation to Visualize Color Constancy. Lecture Notes in Computer Science, 2010, , 241-247.	1.3	2
72	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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73	Visual Servoing of Legged Robots. Journal of Mathematical Imaging and Vision, 2012, 42, 196-211.	1.3	1
74	Educational Innovation: Interaction and Relationship Inside A Sub-Module. Procedia, Social and Behavioral Sciences, 2015, 186, 395-400.	0.5	1
75	Renewable (REW) / Fuel Cell (FC) Hybrid Power System with mitigation of the REW variability by the FC fuel flow control. , 2018, , .		1
76	Modeling an ANN-based control for optimal operation of PEMFC systems. , 2018, , .		1
77	Electrical Behavior Modeling of Solar Panels Using Extreme Learning Machines. Lecture Notes in Computer Science, 2018, , 730-740.	1.3	1
78	Control of Transitory Take-Off Regime in the Transportation of a Pendulum by a Quadrotor. Lecture Notes in Computer Science, 2019, , 117-126.	1.3	1
79	Neural Modeling of Hose Dynamics to Speedup Reinforcement Learning Experiments. Lecture Notes in Computer Science, 2015, , 311-319.	1.3	1
80	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
81	Knowledge Modeling by ELM in RL for SRHT Problem. Lecture Notes in Computer Science, 2016, , 323-331.	1.3	0
82	Real Prediction of Elder People Abnormal Situations at Home. Advances in Intelligent Systems and Computing, 2017, , 31-40.	0.6	0
83	System using a hybrid application for virtual reality 3D drawing. , 2017, , .		0
84	Analysis of New Strategies to Reach Nearly Zero Energy Buildings (nZEBs). Proceedings (mdpi), 2018, 2, .	0.2	0
85	Longitudinal wind speed time series generation to wind turbine controllers tuning. International Journal of Renewable Energy Development, 2018, 7, 199-204.	2.4	0
86	Editorial: Special issue CISIS 2016. Logic Journal of the IGPL, 2019, 27, 135-136.	1.5	0
87	Self-tuning Yaw Control Strategy of a Horizontal Axis Wind Turbine Based on Machine Learning. Power Systems, 2021, , 879-900.	0.5	0
88	Neuronal Implementation of Predictive Controllers. Lecture Notes in Computer Science, 2010, , 312-319.	1.3	0
89	Prediction of Bladder Cancer Recurrences Using Artificial Neural Networks. Lecture Notes in Computer Science, 2010, , 492-499.	1.3	0
90	Visual Detection in Linked Multi-Component Robotic Systems. , 2013, , 78-97.		0

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91	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
92	Erasmus Innovative European Studies. Advances in Intelligent Systems and Computing, 2017, , 758-765.	0.6	0
93	Neuronal Electrical Behavior Modeling of Solar Panels. Lecture Notes in Computer Science, 2017, , 554-564.	1.3	0
94	Towards Hospitalization After Readmission Risk Prediction Using ELMs. Lecture Notes in Computer Science, 2017, , 384-393.	1.3	0
95	Machine-Learning Techniques Applied to Biomass Estimation Using LiDAR Data. Advances in Intelligent Systems and Computing, 2021, , 853-861.	0.6	0
96	Visual Detection in Linked Multi-Component Robotic Systems. , 0, , 1516-1532.		0
97	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