

Cairo LÃºcio Nascimento JÃºnior

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

651
citations

1040018

9
h-index

752679

20
g-index

55
all docs

55
docs citations

55
times ranked

716
citing authors

#	ARTICLE	IF	CITATIONS
1	Forecasting fault events for predictive maintenance using data-driven techniques and ARMA modeling. Computers and Industrial Engineering, 2018, 115, 41-53.	6.3	166
2	Remaining useful life estimation in aeronautics: Combining data-driven and Kalman filtering. Reliability Engineering and System Safety, 2019, 184, 228-239.	8.9	79
3	Use of PHM Information and System Architecture for Optimized Aircraft Maintenance Planning. IEEE Systems Journal, 2015, 9, 1197-1207.	4.6	52
4	Autonomous Construction of Multiple Structures Using Learning Automata: Description and Experimental Validation. IEEE Systems Journal, 2015, 9, 1376-1387.	4.6	34
5	A neural network with asymmetric basis functions for feature extraction of ECG P waves. IEEE Transactions on Neural Networks, 2001, 12, 1252-1255.	4.2	30
6	Comparative case study of life usage and data-driven prognostics techniques using aircraft fault messages. Computers in Industry, 2017, 86, 1-14.	9.9	19
7	Design of attitude and path tracking controllers for quad-rotor robots using reinforcement learning. , 2012, , .		15
8	Daily and monthly sugar price forecasting using the mixture of local expert models. Pesquisa Operacional, 2007, 27, 235-246.	0.4	14
9	Autonomous navigation of a small boat using IMU/GPS/digital compass integration. , 2013, , .		14
10	Design of model predictive control via learning automata for a single UAV load transportation. , 2017, , .		14
11	An NN-based approach for tuning servocontrollers. Neural Networks, 1999, 12, 513-518.	5.9	13
12	GFRBS-PHM: A Genetic Fuzzy Rule-Based System for PHM with improved interpretability. , 2013, , .		13
13	Health monitoring using support vector classification on an Auxiliary Power Unit. , 2009, , .		12
14	Accumulative Learning using Multiple ANN for Flexible Link Control. IEEE Transactions on Aerospace and Electronic Systems, 2010, 46, 508-524.	4.7	10
15	Prognostics of aircraft bleed valves using a SVM classification algorithm. , 2012, , .		9
16	Autonomous construction of structures in a dynamic environment using Reinforcement Learning. , 2013, , .		9
17	Study on Singular Spectrum Analysis as a New Technical Oscillator for Trading Rules Design. Fluctuation and Noise Letters, 2018, 17, 1850034.	1.5	9
18	An experimental validation of reinforcement learning applied to the position control of UAVs. , 2012, , .		8

#	ARTICLE	IF	CITATIONS
19	Health monitoring and remaining useful life estimation of lithium-ion aeronautical batteries. , 2012, , .		8
20	PHM-based Multi-UAV task assignment. , 2014, , .		8
21	Nonlinear tracking and aggressive maneuver controllers for quad-rotor robots using Learning Automata. , 2012, , .		7
22	Combining PHM information and system architecture to support aircraft maintenance planning. , 2013, , .		7
23	Iterative Decentralized Planning for Collective Construction Tasks with Quadrotors. Journal of Intelligent and Robotic Systems: Theory and Applications, 2018, 90, 217-234.	3.4	7
24	How aircraft operators can benefit from PHM techniques. , 2012, , .		6
25	Planning and learning for cooperative construction task with quadrotors. , 2014, , .		6
26	Development of a low-cost autonomous surface vehicle using MOOS-IvP. , 2016, , .		6
27	Autonomous Navigation of a Small-Scale Ground Vehicle Using Low-Cost IMU/GPS Integration for Outdoor Applications. , 2019, , .		6
28	Measuring battery discharge characteristics for accurate UAV endurance estimation. Aeronautical Journal, 2020, 124, 1099-1113.	1.6	6
29	Analytical Approach to Sampling Estimation of Underwater Tunnels Using Mechanical Profiling Sonars. Sensors, 2021, 21, 1900.	3.8	6
30	FastSLAM filter implementation for indoor autonomous robot. , 2016, , .		5
31	Sensor Data Fusion Algorithm for Indoor Environment Mapping Using Low-Cost Sensors. Journal of Control, Automation and Electrical Systems, 2013, 24, 199-211.	2.0	4
32	A Stochastic Learning Approach for Construction of Brick Structures with a Ground Robot. IFAC-PapersOnLine, 2017, 50, 5654-5659.	0.9	4
33	A Multicriteria Trading System Based on Singular Spectrum Analysis Trading Rules. IEEE Systems Journal, 2020, 14, 1468-1478.	4.6	4
34	VITA1: An Unmanned Underwater Vehicle Prototype for Operation in Underwater Tunnels. , 2021, , .		4
35	A new approach to treating pressure oscillations in combustion instability phenomena. Applied Acoustics, 2016, 114, 27-35.	3.3	3
36	ALOS: Acoustic Localization System Applied to Indoor Navigation of UAVs. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
37	Application of Machine Learning Techniques and Spectrum Images of Vibration Orbits for Fault Classification of Rotating Machines. Journal of Control, Automation and Electrical Systems, 0, , 1.	2.0	3
38	Machine Learning Techniques for Fault Diagnosis of Rotating Machines Using Spectrum Image of Vibration Orbits. , 0, , .		3
39	Evaluation of Technical Analysis Trading Rules in a Artificial Stock Market Environment. IEEE Latin America Transactions, 2020, 18, 1707-1714.	1.6	3
40	Feedback-error-learning for controlling a flexible link. , 0, , .		2
41	Implementation of a real-time attitude system for the stabilization control of a quad-rotor robot. , 2013, , .		2
42	Gait synthesis of a hybrid legged robot using reinforcement learning. , 2015, , .		2
43	MoGFT-I: A Multi-objective Optimization approach for the Cart and Pole control problem. , 2015, , .		2
44	Aircraft on-condition reliability assessment based on data-intensive analytics. , 2017, , .		2
45	Comparison between Basic and Toeplitz SSA applied to non-stationary time-series. Statistics and Its Interface, 2019, 12, 527-536.	0.3	2
46	AUV Cruising Auto Pilot for a Long Straight Confined Underwater Tunnel. , 2020, , .		2
47	Steering a quadruped robot: Simulation and experimental results. , 2014, , .		1
48	Autonomous feature-based exploration using a low-cost mobile robot. , 2014, , .		1
49	Testing the Application of Support Vector Machine (SVM) to Technical Trading Rules. , 2021, , .		1
50	EKF-SLAM with Autonomous Exploration using a Low Cost Robot. , 2021, , .		1
51	Planning of the Coordination of Multiple Quadrotors Applied to the Transport of Materials. , 2021, , .		1
52	GENERATION AND TESTING OF GAIT PATTERNS FOR WALKING MACHINES USING MULTI-OBJECTIVE OPTIMIZATION AND LEARNING AUTOMATA. , 2011, , .		1
53	Simu2VITA: A General Purpose Underwater Vehicle Simulator. Sensors, 2022, 22, 3255.	3.8	1
54	A New Particle Weighting Strategy for Robot Mapping FastSLAM. , 2017, , .		0