

Paulo Drews-Jr

List of Publications by Year in descending order

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Version: 2024-02-01

114
papers

1,774
citations

686830

13
h-index

525886

27
g-index

116
all docs

116
docs citations

116
times ranked

1025
citing authors

#	ARTICLE	IF	CITATIONS
1	A Probabilistic Approach to Restore Images Acquired in Underwater Scenes. Journal of Mathematical Imaging and Vision, 2022, 64, 89-104.	0.8	1
2	Analysis of Local Trajectory Planners for Mobile Robot with Robot Operating System. IEEE Latin America Transactions, 2022, 20, 92-99.	1.2	10
3	Double Critic Deep Reinforcement Learning for Mapless 3D Navigation of Unmanned Aerial Vehicles. Journal of Intelligent and Robotic Systems: Theory and Applications, 2022, 104, .	2.0	22
4	Editorial Notes for Topical Collection on Robotica 2019. Journal of Intelligent and Robotic Systems: Theory and Applications, 2022, 104, .	2.0	2
5	Matching Cross-Domain Data with Cooperative Training of Triplet Networks: A Case Study on Underwater Robotics. Journal of Intelligent and Robotic Systems: Theory and Applications, 2022, 104, 1.	2.0	1
6	Trajectory Planning for Hybrid Unmanned Aerial Underwater Vehicles with Smooth Media Transition. Journal of Intelligent and Robotic Systems: Theory and Applications, 2022, 104, 1.	2.0	12
7	Cross-View and Cross-Domain Underwater Localization Based on Optical Aerial and Acoustic Underwater Images. IEEE Robotics and Automation Letters, 2022, 7, 4969-4974.	3.3	9
8	Guided Sonar-to-Satellite Translation. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 101, 1.	2.0	3
9	On Robustness of Robotic and Autonomous Systems Perception. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 101, 1.	2.0	4
10	Autonomous Agricultural Sprayer using Machine Vision and Nozzle Control. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 102, 1.	2.0	11
11	ICAR 2019 Special Issue. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 102, 1.	2.0	0
12	Matching Color Aerial Images and Underwater Sonar Images Using Deep Learning for Underwater Localization. IEEE Robotics and Automation Letters, 2020, 5, 6365-6370.	3.3	23
13	CNN Based Image Restoration. Journal of Intelligent and Robotic Systems: Theory and Applications, 2020, 99, 609-627.	2.0	15
14	Security on ROS: analyzing and exploiting vulnerabilities of ROS-based systems. , 2020, , .		12
15	Unsupervised Learning Method for Encoder-Decoder-Based Image Restoration. Lecture Notes in Computer Science, 2020, , 348-360.	1.0	4
16	Simulated Dataset to Verify the Overlapping and Segregation Problem on Computer Vision Granulometry of Fertilizers. IFAC-PapersOnLine, 2020, 53, 12032-12037.	0.5	2
17	Countering low visibility in video survey of an estuarine fish assemblage. Pacific Conservation Biology, 2020, 26, 190.	0.5	12
18	A Pipelined Approach to Deal with Image Distortion in Computer Vision. Lecture Notes in Computer Science, 2020, , 212-225.	1.0	0

#	ARTICLE	IF	CITATIONS
19	Visual-based Autonomous Unmanned Aerial Vehicle for Inspection in Indoor Environments. , 2020, , .		11
20	Cooperative Training of Triplet Networks for Cross-Domain Matching. , 2020, , .		5
21	Underwater Depth Estimation based on Water Classification using Monocular Image. , 2020, , .		1
22	Thermographic Non-Invasive Inspection Modelling of Fertilizer Pipelines Using Neural Networks. , 2020, , .		0
23	Deep Reinforcement Learning for Mapless Navigation of Unmanned Aerial Vehicles. , 2020, , .		9
24	Alternative Underwater Image Restoration Based on Unsupervised Learning and Autoencoder with Degradation Block. , 2020, , .		0
25	A Novel Concept for Hybrid Unmanned Aerial Underwater Vehicles Focused on Aquatic Performance. , 2020, , .		24
26	CNN-Based Luminance And Color Correction For ILL-Exposed Images. , 2019, , .		4
27	Simulating the Behaviour of Choquet-Like (pre) Aggregation Functions for Image Resizing in the Pooling Layer of Deep Learning Networks. Advances in Intelligent Systems and Computing, 2019, , 224-236.	0.5	7
28	Single Image Restoration for Participating Media Based on Prior Fusion. IEEE Computer Graphics and Applications, 2019, 39, 71-83.	1.0	5
29	A Perception System for an Autonomous Pesticide Boom Sprayer. , 2019, , .		6
30	Underwater Sonar and Aerial Images Data Fusion for Robot Localization. , 2019, , .		6
31	A Study on Configuration of Propellers for Multirotor-like Hybrid Aerial-Aquatic Vehicles. , 2019, , .		23
32	Height Measurement and Adjustment of Welding Torch for Linear Welding Robot. , 2019, , .		0
33	An Optimized Image Fusion Method for Fume Removal in Automated Welding Robots Field. , 2019, , .		0
34	Perfect Storm: DSAs Embrace Deep Learning for GPU-Based Computer Vision. , 2019, , .		2
35	Contrast Enhancement and Image Completion: A CNN Based Model to Restore Ill Exposed Images. , 2019, , .		5
36	3D Surfaces Reconstruction and Volume Changes in Underwater Environments Using MSIS Sonar. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
37	Satellite and Underwater Sonar Image Matching Using Deep Learning. , 2019, , .		6
38	Non-Invasive Visual Computing Modelling for Obstruction Inspection of Pipes in the Fertilizer Industry. , 2019, , .		0
39	Evaluation of the Pressure-Flow Relationship in a Boom of an Autonomous Robotic Agricultural Sprayer. , 2019, , .		4
40	Can Exposure, Noise and Compression Affect Image Recognition? An Assessment of the Impacts on State-of-the-Art ConvNets. , 2019, , .		8
41	Semantic Segmentation of Static and Dynamic Structures of Marina Satellite Images using Deep Learning. , 2019, , .		4
42	Underwater place recognition using forward-looking sonar images: A topological approach. Journal of Field Robotics, 2019, 36, 355-369.	3.2	24
43	Visualization Methods for Image Transformation Convolutional Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2231-2243.	7.2	25
44	Análise Exploratória de Dados de Imagens Digitais Noturnas. Scientia Plena, 2019, 15, .	0.1	0
45	Object Recognition and Semantic Mapping for Underwater Vehicles Using Sonar Data. Journal of Intelligent and Robotic Systems: Theory and Applications, 2018, 91, 279-289.	2.0	8
46	GuidedNet: Single Image Dehazing Using an End-to-End Convolutional Neural Network. , 2018, , .		3
47	Image Processing for Automated Welding Robot: Reducing Interference due to Fume in Camera Lenses. , 2018, , .		2
48	A Comparative Study on Sigma-Point Kalman Filters for Trajectory Estimation of Hybrid Aerial-Aquatic Vehicles. , 2018, , .		16
49	Perception of an Opto-Mechanical Torch for Linear Welding Robot Using Monocular Camera. , 2018, , .		2
50	Restoration of Images Affected by Welding Fume. , 2018, , .		2
51	A Low Cost System to Optimize Pesticide Application Based on Mobile Technologies and Computer Vision. , 2018, , .		7
52	Visualization Techniques Applied to Image-to-Image Translation. , 2018, , .		0
53	Underwater Place Recognition in Unknown Environments with Triplet Based Acoustic Image Retrieval. , 2018, , .		11
54	Sonar-to-Satellite Translation using Deep Learning. , 2018, , .		5

#	ARTICLE	IF	CITATIONS
55	Deep Learning Based Exposure Correction for Image Exposure Correction with Application in Computer Vision for Robotics. , 2018, , .		12
56	Using the Choquet Integral in the Pooling Layer in Deep Learning Networks. Communications in Computer and Information Science, 2018, , 144-154.	0.4	14
57	Understading Image Restoration Convolutional Neural Networks with Network Inversion. , 2017, , .		3
58	Deep Learning for Microalgae Classification. , 2017, , .		19
59	Forward Looking Sonar Scene Matching Using Deep Learning. , 2017, , .		12
60	Description and Matching of Acoustic Images Using a Forward Looking Sonar: A Topological Approach.. IFAC-PapersOnLine, 2017, 50, 2317-2322.	0.5	3
61	DeepDive: An End-to-End Dehazing Method Using Deep Learning. , 2017, , .		16
62	Towards a biologically-inspired model for underwater localization based on sensory-motor coupling. , 2017, , .		3
63	Seam tracking and welding bead geometry analysis for autonomous welding robot. , 2017, , .		17
64	Towards comparison of Kalman filter methods for localisation in underwater environments. , 2017, , .		1
65	Automated seam tracking system based on passive monocular vision for automated linear robotic welding process. , 2017, , .		8
66	Object Classification in Semi Structured Enviroment Using Forward-Looking Sonar. Sensors, 2017, 17, 2235.	2.1	16
67	Supervised Microalgae Classification in Imbalanced Dataset. , 2016, , .		6
68	Real-time monocular obstacle avoidance using Underwater Dark Channel Prior. , 2016, , .		13
69	Vision-Based Obstacle Avoidance Using Deep Learning. , 2016, , .		24
70	Semantic Mapping on Underwater Environment Using Sonar Data. , 2016, , .		5
71	Effects of Water Currents in a Continuous Attractor Neural Network for SLAM Applications. , 2016, , .		2
72	Towards comparison of underwater SLAM methods: An open dataset collection. , 2016, , .		10

#	ARTICLE	IF	CITATIONS
73	A statistical learning approach for underwater color restoration with adaptive training based on visual attention. , 2016, , .		1
74	A modified topological descriptor for forward looking sonar images. , 2016, , .		4
75	A Topological Descriptor of Forward Looking Sonar Images for Navigation and Mapping. Communications in Computer and Information Science, 2016, , 120-134.	0.4	3
76	Using a MRF-BP model with color adaptive training for underwater color restoration. , 2016, , .		5
77	Underwater Depth Estimation and Image Restoration Based on Single Images. IEEE Computer Graphics and Applications, 2016, 36, 24-35.	1.0	373
78	A Topological Descriptor of Acoustic Images for Navigation and Mapping. , 2015, , .		6
79	Real-time localization and dense mapping in underwater environments from a monocular sequence. , 2015, , .		11
80	Attitude control for an Hybrid Unmanned Aerial Underwater Vehicle: A robust switched strategy with global stability. , 2015, , .		43
81	Automatic restoration of underwater monocular sequences of images. , 2015, , .		14
82	An Open-source Bio-inspired Solution to Underwater SLAM~.... IFAC-PapersOnLine, 2015, 48, 212-217.	0.5	40
83	Automatic control of a ROV for inspection of underwater structures using a low-cost sensing. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2015, 37, 361-374.	0.8	19
84	Hybrid Unmanned Aerial Underwater Vehicle: Modeling and simulation. , 2014, , .		88
85	Generalized Optical Flow Model for Scattering Media. , 2014, , .		6
86	Spatial Density Patterns for Efficient Change Detection in 3D Environment for Autonomous Surveillance Robots. IEEE Transactions on Automation Science and Engineering, 2014, 11, 766-774.	3.4	30
87	A Novel Robust Scene Change Detection Algorithm for Autonomous Robots Using Mixtures of Gaussians. International Journal of Advanced Robotic Systems, 2014, 11, 18.	1.3	6
88	Underwater Single Image Restoration Using Dark Channel Prior. , 2014, , .		14
89	Challenges and State-of-the-Art Solutions to Underwater Slam. , 2014, , .		1
90	Novelty detection and segmentation based on Gaussian mixture models: A case study in 3D robotic laser mapping. Robotics and Autonomous Systems, 2013, 61, 1696-1709.	3.0	19

#	ARTICLE	IF	CITATIONS
91	Fast and adaptive 3D change detection algorithm for autonomous robots based on Gaussian Mixture Models. , 2013, , .		12
92	Underwater Visual 3D SLAM Using a Bio-inspired System. , 2013, , .		2
93	Real-Time Depth Estimation for Underwater Inspection Using Dual Laser and Camera. , 2013, , .		1
94	3D robotic mapping: A biologic approach. , 2013, , .		4
95	Improving change detection using Vertical Surface Normal Histograms and Gaussian Mixture Models in structured environments. , 2013, , .		1
96	Microalgae classification using semi-supervised and active learning based on Gaussian mixture models. Journal of the Brazilian Computer Society, 2013, 19, 411-422.	0.8	31
97	Transmission Estimation in Underwater Single Images. , 2013, , .		349
98	A Terrain-Based Path Planning for Mobile Robots with Bounded Curvature. , 2012, , .		0
99	Using Space D* for Crowded Real Robots Environments. , 2012, , .		0
100	Tracking System for Underwater Inspection Using Computer Vision. , 2012, , .		11
101	Spatial and Perceptive Mapping Using Semantically Self-Organizing Maps Applied to Mobile Robots. , 2012, , .		2
102	Self-Organizing Mapping of Robotic Environments Based on Neural Networks. , 2012, , .		3
103	Efficient change detection in 3D environment for autonomous surveillance robots based on implicit volume. , 2012, , .		9
104	Space D*. Journal of the Brazilian Computer Society, 2012, 18, 363-373.	0.8	2
105	Analyzing and exploring feature detectors in images. , 2011, , .		13
106	Change detection in 3D environments based on Gaussian Mixture Model and robust structural matching for autonomous robotic applications. , 2010, , .		10
107	Novelty detection and 3D shape retrieval using superquadrics and multi-scale sampling for autonomous mobile robots. , 2010, , .		22
108	Growing Cell Structures Applied to Sensor Fusion and SLAM. , 2010, , .		0

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109	Sensor fusion based on multi-self-organizing maps for SLAM. , 2010, , .		11
110	Novelty detection and 3D shape retrieval based on Gaussian Mixture Models for autonomous surveillance robotics. , 2009, , .		12
111	Visual odometry and mapping for Underwater Autonomous Vehicles. , 2009, , .		20
112	Self Organizing Maps for AUVs Mapping. , 2009, , .		2
113	SLAM in Underwater Environment Using SIFT and Topologic Maps. , 2008, , .		7
114	NLMAP - visual-based self localization and mapping for Autonomous Underwater Vehicles. , 2008, , .		2