

Mario F M Campos

List of Publications by Year in descending order

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Version: 2024-02-01

92
papers

2,203
citations

394390

19
h-index

315719

38
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93
all docs

93
docs citations

93
times ranked

1860
citing authors

#	ARTICLE	IF	CITATIONS
1	A Sparse Sampling-Based Framework for Semantic Fast-Forward of First-Person Videos. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 1438-1444.	13.9	4
2	Estimating boundary dynamics using robotic sensor networks with pointwise measurements. Autonomous Robots, 2021, 45, 193-208.	4.8	3
3	Three-Dimensional Mapping with Augmented Navigation Cost through Deep Learning. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 101, 1.	3.4	11
4	Three-dimensional Terrain Aware Autonomous Exploration for Subterranean and Confined Spaces. , 2021, , .		7
5	Fully Convolutional Siamese Autoencoder for Change Detection in UAV Aerial Images. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1455-1459.	3.1	31
6	On the Evaluation of Force Feedback Augmented Teleoperation of Excavator-like Mobile Manipulators. , 2020, , .		3
7	Extending Maps with Semantic and Contextual Object Information for Robot Navigation: a Learning-Based Framework Using Visual and Depth Cues. Journal of Intelligent and Robotic Systems: Theory and Applications, 2020, 99, 555-569.	3.4	13
8	Connecting real world and "digital twins" with "multivis" system. Technical Papers ... Rio Oil & Gas, 2020, 20, 391-392.	0.0	0
9	Prototypicality Effects in Global Semantic Description of Objects. , 2019, , .		0
10	Cooperative digital magnetic elevation maps by small autonomous aerial robots. Journal of Field Robotics, 2019, 36, 1378-1398.	6.0	4
11	Augmented Vector Field Navigation Cost Mapping using Inertial Sensors. , 2019, , .		3
12	Fast-Forward Methods for Egocentric Videos: A Review. , 2019, , .		0
13	GEOBIT: A Geodesic-Based Binary Descriptor Invariant to Non-Rigid Deformations for RGB-D Images. , 2019, , .		4
14	Making a long story short: A multi-importance fast-forwarding egocentric videos with the emphasis on relevant objects. Journal of Visual Communication and Image Representation, 2018, 53, 55-64.	2.8	10
15	Multi-robot coverage path planning using hexagonal segmentation for geophysical surveys. Robotica, 2018, 36, 1144-1166.	1.9	39
16	Information-Driven Rapidly-Exploring Random Tree for Efficient Environment Exploration. Journal of Intelligent and Robotic Systems: Theory and Applications, 2018, 91, 313-331.	3.4	22
17	Triangular Networks for Resilient Formations. Springer Proceedings in Advanced Robotics, 2018, , 147-159.	1.3	7
18	Multi-agent Rapidly-exploring Pseudo-random Tree. Journal of Intelligent and Robotic Systems: Theory and Applications, 2018, 89, 69-85.	3.4	18

#	ARTICLE	IF	CITATIONS
19	Dynamic region visit routing problem for vehicles with minimum turning radius. Journal of Heuristics, 2018, 24, 83-109.	1.4	6
20	A Weighted Sparse Sampling and Smoothing Frame Transition Approach for Semantic Fast-Forward First-Person Videos. , 2018, , .		17
21	Semantic Map Augmentation for Robot Navigation: A Learning Approach Based on Visual and Depth Data. , 2018, , .		11
22	Framework for Haptic Teleoperation of a Remote Robotic Arm Device. , 2018, , .		1
23	Single-shot underwater image restoration: A visual quality-aware method based on light propagation model. Journal of Visual Communication and Image Representation, 2018, 55, 363-373.	2.8	20
24	A survey on routing problems and robotic systems. Robotica, 2018, 36, 1781-1803.	1.9	24
25	Towards an efficient 3D model estimation methodology for aerial and ground images. Machine Vision and Applications, 2017, 28, 937-952.	2.7	5
26	Resilient consensus for time-varying networks of dynamic agents. , 2017, , .		69
27	Distributed multi-robot coordination for dynamic perimeter surveillance in uncertain environments. , 2017, , .		17
28	Bi-objective data gathering path planning for vehicles with bounded curvature. Computers and Operations Research, 2017, 84, 195-204.	4.0	10
29	A decentralized algorithm for assembling structures with modular robots. , 2017, , .		9
30	Speed-invariant terrain roughness classification and control based on inertial sensors. , 2017, , .		10
31	Cooperative prediction of time-varying boundaries with a team of robots. , 2017, , .		9
32	Autonomous Aeromagnetic Surveys Using a Fluxgate Magnetometer. Sensors, 2016, 16, 2169.	3.8	31
33	Dynamic perimeter surveillance with a team of robots. , 2016, , .		13
34	Fast-forward video based on semantic extraction. , 2016, , .		13
35	Real-time monocular obstacle avoidance using Underwater Dark Channel Prior. , 2016, , .		13
36	Multi-robot 3D coverage path planning for First Responders teams. , 2016, , .		16

#	ARTICLE	IF	CITATIONS
37	Predicting Environmental Boundary Behaviors With a Mobile Robot. IEEE Robotics and Automation Letters, 2016, 1, 1133-1139.	5.1	5
38	Underwater Depth Estimation and Image Restoration Based on Single Images. IEEE Computer Graphics and Applications, 2016, 36, 24-35.	1.2	373
39	Dental wear estimation using a digital intra-oral optical scanner and an automated 3D computer vision method. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 507-514.	1.6	12
40	Real-time localization and dense mapping in underwater environments from a monocular sequence. , 2015, , .		11
41	A distributed multi-robot approach for the detection and tracking of multiple dynamic anomalies. , 2015, , .		11
42	Attitude control for an Hybrid Unmanned Aerial Underwater Vehicle: A robust switched strategy with global stability. , 2015, , .		43
43	3D path planning with continuous bounded curvature and pitch angle profiles using 7th order curves. , 2015, , .		6
44	Automatic restoration of underwater monocular sequences of images. , 2015, , .		14
45	A Scale Invariant Keypoint Detector Based on Visual and Geometrical Cues. Lecture Notes in Computer Science, 2015, , 341-349.	1.3	1
46	Adaptive Path Planning for Multiple Vehicles with Bounded Curvature. Communications in Computer and Information Science, 2015, , 153-168.	0.5	1
47	Hybrid Unmanned Aerial Underwater Vehicle: Modeling and simulation. , 2014, , .		88
48	Generalized Optical Flow Model for Scattering Media. , 2014, , .		6
49	On the improvement of human action recognition from depth map sequences using Spaceâ€™Time Occupancy Patterns. Pattern Recognition Letters, 2014, 36, 221-227.	4.2	54
50	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.	5.2	30
51	Sparse Spatial Coding: A Novel Approach to Visual Recognition. IEEE Transactions on Image Processing, 2014, 23, 2719-2731.	9.8	14
52	Online gesture recognition from pose kernel learning and decision forests. Pattern Recognition Letters, 2014, 39, 65-73.	4.2	44
53	An Orientation Assignment Heuristic to the Dubins Traveling Salesman Problem. Lecture Notes in Computer Science, 2014, , 457-468.	1.3	13
54	On Segregative Behaviors Using Flocking and Velocity Obstacles. Springer Tracts in Advanced Robotics, 2014, , 121-133.	0.4	9

#	ARTICLE	IF	CITATIONS
55	Feasible path planning for fixed-wing UAVs using seventh order B�zier curves. Journal of the Brazilian Computer Society, 2013, 19, 193-203.	1.3	18
56	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.	5.1	19
57	On the development of a robust, fast and lightweight keypoint descriptor. Neurocomputing, 2013, 120, 141-155.	5.9	18
58	Robotics and Automation Activities in Brazil [IAB]. IEEE Robotics and Automation Magazine, 2013, 20, 14-16.	2.0	1
59	Path planning with Multiple Rapidly-exploring Random Trees for teams of robots. , 2013, , .		2
60	Efficient target visiting path planning for multiple vehicles with bounded curvature. , 2013, , .		16
61	Fast pedestrian detection based on a partial least squares cascade. , 2013, , .		1
62	A Terrain-Based Path Planning for Mobile Robots with Bounded Curvature. , 2012, , .		0
63	BRAND: A robust appearance and depth descriptor for RGB-D images. , 2012, , .		28
64	Cooperative Robotic Exploration and Transport of Unknown Objects. , 2012, , .		3
65	Mobile Robot Localization in Indoor Environments Using Multiple Wireless Technologies. , 2012, , .		9
66	Sparse Spatial Coding: A novel approach for efficient and accurate object recognition. , 2012, , .		42
67	Efficient change detection in 3D environment for autonomous surveillance robots based on implicit volume. , 2012, , .		9
68	Data gathering tour optimization for Dubins' vehicles. , 2012, , .		16
69	STOP: Space-Time Occupancy Patterns for 3D Action Recognition from Depth Map Sequences. Lecture Notes in Computer Science, 2012, , 252-259.	1.3	181
70	Fingerprinting-based radio localization in indoor environments using multiple wireless technologies. , 2011, , .		27
71	Nonholonomic path planning optimization for Dubins' vehicles. , 2011, , .		31
72	On the Generation of Trajectories for Multiple UAVs in Environments with Obstacles. Journal of Intelligent and Robotic Systems: Theory and Applications, 2010, 57, 123-141.	3.4	39

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73	Feasible RRT-based path planning using seventh order Bézier curves. , 2010, , .		27
74	Inspection of bottles crates in the beer industry through computer vision. , 2010, , .		3
75	On the generation of feasible paths for aerial robots in environments with obstacles. , 2009, , .		5
76	A path planning algorithm for UAVs with limited climb angle. , 2009, , .		8
77	CoMutaR: A framework for multi-robot coordination and task allocation. , 2009, , .		29
78	Robot Navigation in Multi-terrain Outdoor Environments. International Journal of Robotics Research, 2009, 28, 685-700.	8.5	23
79	On the generation of feasible paths for aerial robots with limited climb angle. , 2009, , .		7
80	Stereo Based Structure Recovery of Underwater Scenes from Automatically Restored Images. , 2009, , .		29
81	Closed loop motion planning of cooperating mobile robots using graph connectivity. Robotics and Autonomous Systems, 2008, 56, 373-384.	5.1	29
82	Robot Navigation in Multi-terrain Outdoor Environments. Springer Tracts in Advanced Robotics, 2008, , 331-342.	0.4	3
83	Hybrid mobile robot navigational strategy for efficient data collection in sparsely deployed sensor networks. , 2007, , .		7
84	Robot navigation based on electrostatic field computation. IEEE Transactions on Magnetics, 2006, 42, 1459-1462.	2.1	24
85	Structural shape characterization via exploratory factor analysis. Artificial Intelligence in Medicine, 2004, 30, 97-118.	6.5	6
86	A Paradigm for Dynamic Coordination of Multiple Robots. Autonomous Robots, 2004, 17, 7-21.	4.8	54
87	Decentralized Algorithms for Multirobot Manipulation via Caging. Springer Tracts in Advanced Robotics, 2004, , 257-273.	0.4	15
88	Bayesian model for intensity mapping in magnetic resonance image registration. Journal of Electronic Imaging, 2003, 12, 31.	0.9	3
89	A robot for installation and removal of aircraft warning spheres on aerial power transmission lines. IEEE Transactions on Power Delivery, 2003, 18, 1581-1582.	4.3	16
90	Cooperative Transport of Planar Objects by Multiple Mobile Robots Using Object Closure. , 2003, , 287-296.		22

#	ARTICLE	IF	CITATIONS
91	Visual and haptic collaborative tele-presence. Computers and Graphics, 2001, 25, 789-798.	2.5	22
92	Method for Estimating the Intensity Mapping between MRI Images. Lecture Notes in Computer Science, 1999, , 496-501.	1.3	1