Daniel Asmar

List of Publications by Year
in descending order

84 papers	647 citations	1040018 9 h-index	752679 20 g-index
84 all docs	84 docs citations	84 times ranked	662 citing authors

#	Article	IF	Citations
1	Keyframe-based monocular SLAM: design, survey, and future directions. Robotics and Autonomous Systems, 2017, 98, 67-88.	5.1	116
2	Robotics in Nursing: A Scoping Review. Journal of Nursing Scholarship, 2018, 50, 590-600.	2.4	91
3	A Haptic Glove as a Tactile-Vision Sensory Substitution for Wayfinding. Journal of Visual Impairment and Blindness, 2003, 97, 621-632.	0.7	56
4	Virtual and augmented reality for rich interaction with cultural heritage sites: A case study from the Roman Theater at Byblos. Digital Applications in Archaeology and Cultural Heritage, 2017, 5, 1-9.	1.3	42
5	Three-dimensional trajectory tracking of a hybrid autonomous underwater vehicle in the presence of underwater current. Ocean Engineering, 2019, 185, 115-132.	4.3	22
6	A novel method for modeling skidding for systems with nonholonomic constraints. Nonlinear Dynamics, 2014, 76, 1517-1528.	5.2	21
7	Pose tracking for augmented reality applications in outdoor archaeological sites. Journal of Electronic Imaging, 2016, 26, 1.	0.9	18
8	Experimental evaluation of low-cost resistive soil moisture sensors. , 2016, , .		17
9	Infrastructureless approach for ubiquitous user location tracking in construction environments. Automation in Construction, 2015, 56, 47-66.	9.8	16
10	A hybrid ankle/hip preemptive falling scheme for humanoid robots. , 2011, , .		14
11	<i>In Situ</i> Measurement of Oil Slick Thickness. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2635-2647.	4.7	14
12	Ground segmentation and occupancy grid generation using probability fields. , 2015, , .		10
13	Ground segmentation and free space estimation in off-road terrain. Pattern Recognition Letters, 2018, 108, 1-7.	4.2	10
14	Dynamic modeling and path planning of a hybrid autonomous underwater vehicle. , 2014, , .		9
15	Enhanced teleoperation of UAVs with haptic feedback. , 2015, , .		9
16	FDMO: Feature Assisted Direct Monocular Odometry. , 2019, , .		9
17	Resources and End-to-End Neural Network Models for Arabic Image Captioning. , 2020, , .		8
18	A vison-based system for mapping the inside of a pipe. , 2011, , .		7

#	Article	IF	Citations
19	A-SLAM: Human in-the-loop Augmented SLAM. , 2019, , .		7
20	Event-based dynamic bandwidth management for teleoperation. , 2011, , .		6
21	Inertial-vision sensor fusion for pedestrian localization. , 2011, , .		6
22	Dynamic bandwidth management for teleoperation of collaborative robots. , 2012, , .		6
23	Humanoid push recovery using sensory reweighting. Robotics and Autonomous Systems, 2017, 94, 208-218.	5.1	6
24	Human-in-the-loop Augmented Mapping. , 2018, , .		6
25	Capacitive Sensing for Measuring Oil Thickness Under Fouling Conditions. , 2019, , .		6
26	A Unified Formulation for Visual Odometry. , 2019, , .		6
27	Filtering 3D Keypoints Using GIST For Accurate Image-Based Localization. , 2016, , .		6
28	A two phase RGB-D visual servoing controller. , 2014, , .		5
29	Process Design and Operation of a Wood Charcoal Retort. Waste and Biomass Valorization, 2018, 9, 2211-2220.	3.4	5
30	Collaborative Human Augmented SLAM. , 2019, , .		5
31	Enhanced Teleoperation Using Autocomplete. , 2020, , .		5
32	Deep Learning and Mixed Reality to Autocomplete Teleoperation. , 2021, , .		5
33	2D occupancy-grid SLAM of structured indoor environments using a single camera. International Journal of Mechatronics and Automation, 2012, 2, 112.	0.2	4
34	Non-iterative planar visual odometry using a monocular camera. , 2013, , .		4
35	Design and modeling of a novel single-actuator differentially driven robot. , 2014, , .		4
36	Identifying Good Training Data for Self-Supervised Free Space Estimation. , 2016, , .		4

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37	Motion analysis of two-link nonholonomic swimmers. Nonlinear Dynamics, 2017, 89, 2739-2751.	5.2	4
38	The benefits of synthetic data for action categorization. , 2020, , .		4
39	Hierarchical fall avoidance strategy for small-scale humanoid robots. , 2012, , .		3
40	Novel modeling of skidding effects on the nonholonomic motion of a vertical rolling disk. , 2013, , .		3
41	Motion Planning for an Underactuated Planar Robot in a Viscous Environment. Journal of Computational and Nonlinear Dynamics, 2015, 10, .	1.2	3
42	Model-free human-like humanoid push recovery. , 2015, , .		3
43	Energy minimization in humanoid gait. , 2016, , .		3
44	LED-based Spectrometer for In Situ Oil Slick Thickness Measurement. , 2018, , .		3
45	Robot localization using a complementary laser/camera filter. , 2014, , .		2
46	A novel method to generate three-dimensional paths for vehicles with bounded pitch and yaw. , 2015, , .		2
47	Humanoid fall avoidance from randomly directed disturbances. , 2016, , .		2
48	Modeling of a variable diameter wheeled robot for traversing rough terrain. , 2016, , .		2
49	Environment-motivated real-time bandwidth allocation for collaborative robots teleoperation. , 2016, , .		2
50	Relaxing Nonholonomic Constraints to Eliminate Chattering From Time-Optimal Control Solutions. IEEE Robotics and Automation Letters, 2017, 2, 1817-1824.	5.1	2
51	Personalized teleoperation via intention recognition. Advanced Robotics, 2018, 32, 697-716.	1.8	2
52	Model Reference Adaptive Control of a Two-Wheeled Mobile Robot. , 2019, , .		2
53	An Opportunistic Approach for Mitigating Fouling in the Measurement of Oil Thickness. , 2019, , .		2
54	A Novel Method For Map Alignment Assessment Using Synthetic Displacement Fields. , 2021, , .		2

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55	Personalized Autocomplete Teleoperation: Real-Time User Adaptation using Transfer Learning with Partial Feedback. , 2021, , .		2
56	Kinematic analysis of an active angular swivel steering mechanism for robotic mobile bases. , 2012, , .		1
57	Motion planning for a two-link planar robot in a viscous environment. , 2012, , .		1
58	Humanoid fall avoidance from random disturbances predicted via a decision volume. , 2014, , .		1
59	Adaptive gain tuning for teleoperation of quadrotors. , 2016, , .		1
60	Energy-based control applied to humanoid robots. , 2017, , .		1
61	Balancing a Two-Wheeled Mobile Robot using Adaptive Control. , 2018, , .		1
62	Change Your Singer: A Transfer Learning Generative Adversarial Framework for Song to Song Conversion. , 2020, , .		1
63	Biomimetic Energy-Based Humanoid Gait Design. Journal of Intelligent and Robotic Systems: Theory and Applications, 2020, 100, 203-221.	3.4	1
64	Object Oriented Structure from Motion: Can a Scribble Help?. , 2018, , .		1
65	3D Aware Correction and Completion of Depth Maps in Piecewise Planar Scenes. Lecture Notes in Computer Science, 2015, , 226-241.	1.3	1
66	Real-time Detection of Oil Viscosity Using Coplanar Capacitive Sensors. , 2020, , .		1
67	Automated building and evaluation of 2D as-built floor plans. Machine Vision and Applications, 2022, 33, 1.	2.7	1
68	Real-Time Measurement of Viscosity Using Coplanar Capacitive Sensor. , 2022, , .		1
69	Incremental Learning for Enhanced Personalization of Autocomplete Teleoperation. , 2022, , .		1
70	3D reconstruction of indoor scenes by casting visual rays in an occupancy grid. , 2010, , .		0
71	Computer vision geo-location, awareness & detail. , 2010, , .		0
72	Dynamic analysis of an angular swivel steering mechanism with applications to step climbing. , 2014, , .		0

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73	Augmenting analytic SFM filters with frame-to-frame features. Computer Vision and Image Understanding, 2014, 129, 1-14.	4.7	0
74	Relaxing nonholonomic constraints: Towards continuous-curvature Dubins paths. , 2015, , .		0
75	Imitating humans: Humanoid gait design based on energy exchange. , 2017, , .		0
76	Ask the OWL: Object detection constrained by a probabilistic ontological model. , 2017, , .		0
77	Camera Calibration Simulation using a Randomly Generated Spherical Point Distribution. , 2018, , .		0
78	Self-supervised free space estimation in outdoor terrain. Robotica, 2018, 36, 1278-1300.	1.9	0
79	Towards Richer 3D Reference Maps in Urban Scenes. , 2020, , .		0
80	Robustifying Direct VO to Large Baseline Motions. Communications in Computer and Information Science, 2020, , 477-496.	0.5	0
81	Pose Tracking in Augmented Reality of Cultural Heritage. , 0, , 794-803.		0
82	Resolving Empty Patches in Vision-based Scene Reconstructions. , 2020, , .		0
83	Human-Robot Interaction via a Joint-Initiative Supervised Autonomy (JISA) Framework. Journal of Intelligent and Robotic Systems: Theory and Applications, 2022, 104, 1.	3.4	0
84	Robot Grasping through a Joint-Initiative Supervised Autonomy Framework. , 2022, , .		0