## Ioannis Kostavelis

List of Publications by Year in descending order

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471509 361022 1,371 64 17 35 citations h-index g-index papers 68 68 68 1149 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Semantic mapping for mobile robotics tasks: A survey. Robotics and Autonomous Systems, 2015, 66, 86-103.	5.1	270
2	Safety bounds in human robot interaction: A survey. Safety Science, 2020, 127, 104667.	4.9	153
3	Recent trends in social aware robot navigation: A survey. Robotics and Autonomous Systems, 2017, 93, 85-104.	5.1	115
4	Non-destructive quality control methods in additive manufacturing: a survey. Rapid Prototyping Journal, 2020, 26, 777-790.	3.2	67
5	Robot Guided Crowd Evacuation. IEEE Transactions on Automation Science and Engineering, 2015, 12, 739-751.	5.2	64
6	Learning spatially semantic representations for cognitive robot navigation. Robotics and Autonomous Systems, 2013, 61, 1460-1475.	5.1	57
7	Robot navigation via spatial and temporal coherent semantic maps. Engineering Applications of Artificial Intelligence, 2016, 48, 173-187.	8.1	54
8	Robot navigation in large-scale social maps: An action recognition approach. Expert Systems With Applications, 2016, 66, 261-273.	7.6	52
9	Impact of metal additive manufacturing parameters on the powder bed fusion and direct energy deposition processes: a comprehensive review. Progress in Additive Manufacturing, 2021, 6, 349-365.	4.8	48
10	Understanding of Human Behavior with a Robotic Agent Through Daily Activity Analysis. International Journal of Social Robotics, 2019, $11$ , $437-462$ .	4.6	30
11	Learning-based error modeling in FDM 3D printing process. Rapid Prototyping Journal, 2021, 27, 507-517.	3.2	28
12	SPARTAN: Developing a Vision System for Future Autonomous Space Exploration Robots. Journal of Field Robotics, 2014, 31, 107-140.	6.0	26
13	Thorough robot navigation based on SVM local planning. Robotics and Autonomous Systems, 2015, 70, 166-180.	5.1	26
14	Semantic maps from multiple visual cues. Expert Systems With Applications, 2017, 68, 45-57.	7.6	26
15	Experimental and Computational Investigation of Lattice Sandwich Structures Constructed by Additive Manufacturing Technologies. Journal of Manufacturing and Materials Processing, 2021, 5, 95.	2.2	22
16	Stereo-Based Visual Odometry for Autonomous Robot Navigation. International Journal of Advanced Robotic Systems, 2016, 13, 21.	2.1	21
17	Influence of Selective Laser Melting Additive Manufacturing Parameters in Inconel 718 Superalloy. Materials, 2022, 15, 1362.	2.9	21
18	Robot's Workspace Enhancement with Dynamic Human Presence for Socially-Aware Navigation. Lecture Notes in Computer Science, 2017, , 279-288.	1.3	19

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19	Stereovision-Based Algorithm for Obstacle Avoidance. Lecture Notes in Computer Science, 2009, , 195-204.	1.3	17
20	Collision risk assessment for autonomous robots by offline traversability learning. Robotics and Autonomous Systems, 2012, 60, 1367-1376.	5.1	17
21	On the optimization of Hierarchical Temporal Memory. Pattern Recognition Letters, 2012, 33, 670-676.	4.2	16
22	AVERT: An autonomous multi-robot system for vehicle extraction and transportation., 2015,,.		16
23	Robots in Crisis Management: A Survey. Lecture Notes in Business Information Processing, 2017, , 43-56.	1.0	16
24	RAMCIP: Towards a Robotic Assistant to Support Elderly with Mild Cognitive Impairments at Home. Communications in Computer and Information Science, 2016, , 186-195.	0.5	14
25	SPARTAN system: Towards a low-cost and high-performance vision architecture for space exploratory rovers. , $2011, \ldots$		13
26	Object recognition using saliency maps and HTM learning. , 2012, , .		11
27	Visual Odometry for autonomous robot navigation through efficient outlier rejection. , 2013, , .		11
28	Learning the terrain and planning a collision-free trajectory for indoor post-disaster environments. , 2012, , .		10
29	SPARTAN/SEXTANT/COMPASS: Advancing Space Rover Vision via Reconfigurable Platforms. Lecture Notes in Computer Science, 2015, , 475-486.	1.3	10
30	Autonomous Vehicle Navigation in Semi-structured Environments Based on Sparse Waypoints and LiDAR Road-tracking. , $2021, \ldots$		10
31	Path Tracing on Polar Depth Maps for Robot Navigation. Lecture Notes in Computer Science, 2012, , 395-404.	1.3	9
32	Sparse deep-learning algorithm for recognition and categorisation. Electronics Letters, 2012, 48, 1265.	1.0	8
33	Human Aware Robot Navigation in Semantically Annotated Domestic Environments. Lecture Notes in Computer Science, 2016, , 414-423.	1.3	7
34	A Hybrid Human-Robot Collaborative Environment for Recycling Electrical and Electronic Equipment. , 2019, , .		6
35	Road Tracking in Semi-structured Environments Using Spatial Distribution of Lidar Data. Lecture Notes in Computer Science, 2021, , 432-445.	1.3	6
36	Loop Closure Detection and SLAM in Vineyards with Deep Semantic Cues. , 2022, , .		6

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37	Autonomous Vehicle Emergency Recovery Tool: A Cooperative Robotic System for Car Extraction. Journal of Field Robotics, 2016, 33, 1058-1086.	6.0	5
38	Towards Skills Evaluation of Elderly for Human-Robot Interaction. , 2018, , .		5
39	A POMDP Design Framework for Decision Making in Assistive Robots. Lecture Notes in Computer Science, 2017, , 467-479.	1.3	5
40	Ground Penetrating Radar Image Processing Towards Underground Utilities Detection for Robotic Applications. , 2018, , .		4
41	Towards life-long mapping of dynamic environments using temporal persistence modeling. , 2021, , .		4
42	Decision Making with STPA through Markov Decision Process, a Theoretic Framework for Safe Human-Robot Collaboration. Applied Sciences (Switzerland), 2021, 11, 5212.	2.5	4
43	Theta-Disparity: An Efficient Representation of the 3D Scene Structure. Advances in Intelligent Systems and Computing, 2016, , 795-806.	0.6	3
44	Surface/subsurface mapping with an integrated rover-GPR system: A simulation approach. , 2018, , .		3
45	RAMCIP Robot: A Personal Robotic Assistant; Demonstration of a Complete Framework. Lecture Notes in Computer Science, 2019, , 96-111.	1.3	3
46	Autonomous Robot Path Planning Techniques Using Cellular Automata. Emergence, Complexity and Computation, 2015, , 175-196.	0.3	2
47	Context-dependent social mapping. , 2016, , .		2
48	Surface Exploration with a Robot-Trailer System for Autonomous Subsurface Scanning. , 2019, , .		2
49	GPR Antenna localization based on A-Scans. , 2019, , .		2
50	A Characterization of 3D Printability. Computer-Aided Design and Applications, 2021, 18, 1279-1295.	0.6	2
51	Towards Developing Dependable Systems Suitable for Crisis Management Applications. Lecture Notes in Business Information Processing, 2017, , 77-84.	1.0	2
52	Robotic Assistance in Medication Intake: A Complete Pipeline. Applied Sciences (Switzerland), 2022, 12, 1379.	2.5	2
53	Place categorization through object classification. , 2014, , .		1
54	Body-part tracking from partial-view depth data. , 2017, , .		1

#	Article	IF	Citations
55	V-Disparity Based Obstacle Avoidance for Dynamic Path Planning of a Robot-Trailer. Lecture Notes in Computer Science, 2019, , 143-152.	1.3	1
56	Dependability Levels on Autonomous Systems. International Journal of Information Systems for Crisis Response and Management, 2017, 9, 1-12.	0.7	1
57	How Do You Help a Robot to Find a Place? A Supervised Learning Paradigm to Semantically Infer about Places. Lecture Notes in Computer Science, 2013, , 324-333.	1.3	1
58	Hybrid Geometric Similarity and Local Consistency Measure for GPR Hyperbola Detection. Lecture Notes in Computer Science, 2019, , 224-233.	1.3	1
59	Integrated Topological Planning and Scheduling for Orchestrating Large Human-Robot Collaborative Teams. Lecture Notes in Computer Science, 2020, , 23-35.	1.3	1
60	Automatic Subsurface Map Generation Based on GPR Data Processing. , 2019, , .		0
61	Spatially-Constrained Semantic Segmentation with Topological Maps and Visual Embeddings. Lecture Notes in Computer Science, 2021, , 117-129.	1.3	O
62	Intelligent Stereo Vision in Autonomous Robot Traversability Estimation., 2013,, 192-209.		0
63	Dependability Levels on Autonomous Systems. , 2020, , 1377-1390.		0
64	Intelligent Stereo Vision in Autonomous Robot Traversability Estimation. , 0, , 350-365.		O