

# Abhijeet Ravankar

## List of Publications by Year in descending order

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47  
papers

713  
citations

758635

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580395

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g-index

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all docs

47  
docs citations

47  
times ranked

543  
citing authors

#	ARTICLE	IF	CITATIONS
1	Path Smoothing Techniques in Robot Navigation: State-of-the-Art, Current and Future Challenges. Sensors, 2018, 18, 3170.	2.1	181
2	A Single LiDAR-Based Feature Fusion Indoor Localization Algorithm. Sensors, 2018, 18, 1294.	2.1	58
3	HPPRM: Hybrid Potential Based Probabilistic Roadmap Algorithm for Improved Dynamic Path Planning of Mobile Robots. IEEE Access, 2020, 8, 221743-221766.	2.6	57
4	On a Hopping-Points SVD and Hough Transform-Based Line Detection Algorithm for Robot Localization and Mapping. International Journal of Advanced Robotic Systems, 2016, 13, 98.	1.3	42
5	Symbiotic Navigation in Multi-Robot Systems with Remote Obstacle Knowledge Sharing. Sensors, 2017, 17, 1581.	2.1	35
6	SHP: Smooth Hypocycloidal Paths with Collision-Free and Decoupled Multi-Robot Path Planning. International Journal of Advanced Robotic Systems, 2016, 13, 133.	1.3	31
7	Algorithms and a Framework for Indoor Robot Mapping in a Noisy Environment Using Clustering in Spatial and Hough Domains. International Journal of Advanced Robotic Systems, 2015, 12, 27.	1.3	30
8	On a bio-inspired hybrid pheromone signalling for efficient map exploration of multiple mobile service robots. Artificial Life and Robotics, 2016, 21, 221-231.	0.7	25
9	Autonomous VTOL-UAV Docking System for Heterogeneous Multirobot Team. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-18.	2.4	18
10	Hitchhiking Robots: A Collaborative Approach for Efficient Multi-Robot Navigation in Indoor Environments. Sensors, 2017, 17, 1878.	2.1	17
11	Autonomous and Safe Navigation of Mobile Robots in Vineyard with Smooth Collision Avoidance. Agriculture (Switzerland), 2021, 11, 954.	1.4	17
12	A hybrid topological mapping and navigation method for large area robot mapping. , 2017, , .		16
13	A Novel Approach for Lidar-Based Robot Localization in a Scale-Drifted Map Constructed Using Monocular SLAM. Sensors, 2019, 19, 2230.	2.1	15
14	Autonomous Mapping and Exploration with Unmanned Aerial Vehicles Using Low Cost Sensors. Proceedings (mdpi), 2018, 4, .	0.2	14
15	A connected component labeling algorithm for sparse Lidar data segmentation. , 2015, , .		10
16	Path smoothing extension for various robot path planners. , 2016, , .		10
17	Development of a Low-Cost Semantic Monitoring System for Vineyards Using Autonomous Robots. Agriculture (Switzerland), 2020, 10, 182.	1.4	10
18	Multi-robot path planning for smart access of distributed charging points in map. Artificial Life and Robotics, 2021, 26, 52-60.	0.7	10

#	ARTICLE	IF	CITATIONS
19	An intelligent docking station manager for multiple mobile service robots. , 2015, , .		9
20	Hitchhiking Based Symbiotic Multi-Robot Navigation in Sensor Networks. Robotics, 2018, 7, 37.	2.1	9
21	Virtual Obstacles for Safe Mobile Robot Navigation. , 2019, , .		8
22	A novel vision based adaptive transmission power control algorithm for energy efficiency in wireless sensor networks employing mobile robots. , 2015, , .		7
23	Avoiding blind leading the blind. International Journal of Advanced Robotic Systems, 2016, 13, 172988141666608.	1.3	7
24	Vision based autonomous docking of VTOL UAV using a mobile robot manipulator. , 2017, , .		7
25	On Sharing Spatial Data with Uncertainty Integration Amongst Multiple Robots Having Different Maps. Applied Sciences (Switzerland), 2019, 9, 2753.	1.3	7
26	ITC: Infused Tangential Curves for Smooth 2D and 3D Navigation of Mobile Robots. Sensors, 2019, 19, 4384.	2.1	7
27	UAV pose estimation using IR and RGB cameras. , 2017, , .		6
28	Line Segment Extraction and Polyline Mapping for Mobile Robots in Indoor Structured Environments Using Range Sensors. SICE Journal of Control Measurement and System Integration, 2020, 13, 138-147.	0.4	6
29	Can robots help each other to plan optimal paths in dynamic maps?. , 2017, , .		5
30	Towards Better Problem Finding and Creativity in Graduate School Education: A Case Study of Nitobe School Program. , 2018, , .		5
31	Task coordination for multiple mobile robots considering semantic and topological information. , 2018, , .		5
32	Safe mobile robot navigation in human-centered environments using a heat map-based path planner. Artificial Life and Robotics, 2020, 25, 264-272.	0.7	5
33	Intelligent Robot Guidance in Fixed External Camera Network for Navigation in Crowded and Narrow Passages. Proceedings (mdpi), 2016, 1, .	0.2	3
34	Real-time multi-robot path planning revisited as a caching problem. , 2018, , .		3
35	Optimal Robot Path Selection Using Fuzzy Analytical Hierarchical Process. Proceedings (mdpi), 2018, 2, 111.	0.2	3
36	Managing the Project: The Essential Need for Project Management Training and Education in Graduate Schools. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
37	An Efficient Algorithm for Cleaning Robots Using Vision Sensors. Proceedings (mdpi), 2019, 42, .	0.2	3
38	Robust Landmark Detection in Vineyards Using Laser Range Sensor. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2019, 2019, 1A1-E03.	0.0	3
39	Estimation of position and trajectory of a flying ball in 3-D space. , 2015, , .		1
40	Localization with Laser Range Finder in a Metrically Inconsistent Map from Monocular SLAM. , 2018, , .		1
41	A Bio-Inspired Algorithm for Autonomous Task Coordination of Multiple Mobile Robots. Proceedings (mdpi), 2018, 4, .	0.2	1
42	Multi-Robot Mapping and Navigation Using Topological Features. Proceedings (mdpi), 2019, 42, .	0.2	1
43	Monocular Visual-inertial Localization in a Point Cloud Map Using Feature-to-Distribution Registration. , 2021, , .		1
44	Real-Time Path Smoothing for Mobile Robots in 2D and 3D Environments. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2018, 2018, 1A1-J03.	0.0	1
45	A solution to estimate robot motion with large rotation by matching laser scans. , 2015, , .		0
46	2A1-S04 Real Time Parallel Implementation of Dynamic Feature Detection on Embedded Robot Platforms. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2015, 2015, _2A1-S04_1-_2A1-S04_3.	0.0	0
47	2A2-M06 Vision based Localization and Mapping for Indoor Robots using RGBD Sensor. The Proceedings of JSME Annual Conference on Robotics and Mechatronics (Robomec), 2015, 2015, _2A2-M06_1-_2A2-M06_3.	0.0	0