

Gamini Dissanayake

List of Publications by Year in descending order

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229
papers

7,006
citations

172386

29
h-index

91828

69
g-index

235
all docs

235
docs citations

235
times ranked

5099
citing authors

#	ARTICLE	IF	CITATIONS
1	A solution to the simultaneous localization and map building (SLAM) problem. IEEE Transactions on Automation Science and Engineering, 2001, 17, 229-241.	2.4	2,005
2	Driver Drowsiness Classification Using Fuzzy Wavelet-Packet-Based Feature-Extraction Algorithm. IEEE Transactions on Biomedical Engineering, 2011, 58, 121-131.	2.5	407
3	The aiding of a low-cost strapdown inertial measurement unit using vehicle model constraints for land vehicle applications. IEEE Transactions on Automation Science and Engineering, 2001, 17, 731-747.	2.4	359
4	Convergence and Consistency Analysis for Extended Kalman Filter Based SLAM. , 2007, 23, 1036-1049.		301
5	Toward improved control of prosthetic fingers using surface electromyogram (EMG) signals. Expert Systems With Applications, 2012, 39, 10731-10738.	4.4	258
6	An experiment in autonomous navigation of an underground mining vehicle. IEEE Transactions on Automation Science and Engineering, 1999, 15, 85-95.	2.4	126
7	Convergence and Consistency Analysis for a 3-D Invariant-EKF SLAM. IEEE Robotics and Automation Letters, 2017, 2, 733-740.	3.3	109
8	Choice modeling and the brain: A study on the Electroencephalogram (EEG) of preferences. Expert Systems With Applications, 2012, 39, 12378-12388.	4.4	88
9	Towards terrain-aided navigation for underwater robotics. Advanced Robotics, 2001, 15, 533-549.	1.1	83
10	MIS-SLAM: Real-Time Large-Scale Dense Deformable SLAM System in Minimal Invasive Surgery Based on Heterogeneous Computing. IEEE Robotics and Automation Letters, 2018, 3, 4068-4075.	3.3	80
11	Active SLAM using Model Predictive Control and Attractor based Exploration. , 2006, , .		74
12	Sparse Local Submap Joining Filter for Building Large-Scale Maps. IEEE Transactions on Robotics, 2008, 24, 1121-1130.	7.3	74
13	A robust RGB-D SLAM algorithm. , 2012, , .		72
14	Gaussian processes autonomous mapping and exploration for range-sensing mobile robots. Autonomous Robots, 2018, 42, 273-290.	3.2	70
15	Map Management for Efficient Simultaneous Localization and Mapping (SLAM). Autonomous Robots, 2002, 12, 267-286.	3.2	65
16	-SIFT: SIFT feature extraction and matching for large images in large-scale aerial photogrammetry. ISPRS Journal of Photogrammetry and Remote Sensing, 2014, 91, 1-16.	4.9	60
17	A review of recent developments in Simultaneous Localization and Mapping. , 2011, , .		59
18	Active Pose SLAM. , 2012, , .		59

#	ARTICLE	IF	CITATIONS
19	An invariant-EKF VINS algorithm for improving consistency. , 2017, , .		57
20	Muscle computer interfaces for driver distraction reduction. Computer Methods and Programs in Biomedicine, 2013, 110, 137-149.	2.6	54
21	Improved State Estimation in Quadrotor MAVs: A Novel Drift-Free Velocity Estimator. IEEE Robotics and Automation Magazine, 2013, 20, 32-39.	2.2	52
22	Planning under uncertainty using model predictive control for information gathering. Robotics and Autonomous Systems, 2006, 54, 898-910.	3.0	51
23	Optimisation for job scheduling at automated container terminals using genetic algorithm. Computers and Industrial Engineering, 2013, 64, 511-523.	3.4	51
24	Extending the Limits of Feature-Based SLAM With B-Splines. IEEE Transactions on Robotics, 2009, 25, 353-366.	7.3	50
25	Information-Driven Adaptive Sampling Strategy for Mobile Robotic Wireless Sensor Network. IEEE Transactions on Control Systems Technology, 2016, 24, 372-379.	3.2	50
26	A critique of current developments in simultaneous localization and mapping. International Journal of Advanced Robotic Systems, 2016, 13, 172988141666948.	1.3	47
27	Evolutionary computing based mobile robot localization. Engineering Applications of Artificial Intelligence, 2006, 19, 857-868.	4.3	45
28	Robust lane detection in urban environments. , 2007, , .		45
29	Dynamic Reconstruction of Deformable Soft-Tissue With Stereo Scope in Minimal Invasive Surgery. IEEE Robotics and Automation Letters, 2018, 3, 155-162.	3.3	45
30	Bearing-only SLAM Using a SPRT Based Gaussian Sum Filter. , 0, , .		44
31	Autonomous robot manipulator-based exploration and mapping system for bridge maintenance. Robotics and Autonomous Systems, 2011, 59, 543-554.	3.0	44
32	Multi-Step Look-Ahead Trajectory Planning in SLAM: Possibility and Necessity. , 0, , .		40
33	Capacitive sensor for object ranging and material type identification. Sensors and Actuators A: Physical, 2008, 148, 96-104.	2.0	37
34	Active SLAM in structured environments. , 2008, , .		37
35	POMDP-based long-term user intention prediction for wheelchair navigation. , 2008, , .		37
36	Sampling-based incremental information gathering with applications to robotic exploration and environmental monitoring. International Journal of Robotics Research, 2019, 38, 658-685.	5.8	37

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37	Autonomous underwater navigation and control. <i>Robotica</i> , 2001, 19, 481-496.	1.3	36
38	Optimal search for multiple targets in a built environment. , 2005, , .		36
39	ParallaxBA: bundle adjustment using parallax angle feature parametrization. <i>International Journal of Robotics Research</i> , 2015, 34, 493-516.	5.8	36
40	Active recognition and pose estimation of household objects in clutter. , 2015, , .		36
41	A POMDP framework for modelling human interaction with assistive robots. , 2011, , .		31
42	Nonverbal robot-group interaction using an imitated gaze cue. , 2011, , .		31
43	Line matching based on planar homography for stereo aerial images. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2015, 104, 1-17.	4.9	31
44	Reliable Graphs for SLAM. <i>International Journal of Robotics Research</i> , 2019, 38, 260-298.	5.8	31
45	Rescheduling policies for large-scale task allocation of autonomous straddle carriers under uncertainty at automated container terminals. <i>Robotics and Autonomous Systems</i> , 2014, 62, 506-514.	3.0	30
46	Probabilistic Search for a Moving Target in an Indoor Environment. , 2006, , .		29
47	Discounted MEAN bound for the optimal searcher path problem with non-uniform travel times. <i>European Journal of Operational Research</i> , 2008, 190, 383-397.	3.5	29
48	Uncorrelated fuzzy neighborhood preserving analysis based feature projection for driver drowsiness recognition. <i>Fuzzy Sets and Systems</i> , 2013, 221, 90-111.	1.6	29
49	Dense 3D Map Construction for Indoor Search and Rescue. <i>Journal of Field Robotics</i> , 2007, 24, 71-89.	3.2	28
50	Novel insights into the impact of graph structure on SLAM. , 2014, , .		28
51	Observability analysis of SLAM using fisher information matrix. , 2008, , .		27
52	D-SLAM: A Decoupled Solution to Simultaneous Localization and Mapping. <i>International Journal of Robotics Research</i> , 2007, 26, 187-204.	5.8	25
53	Laser range data based semantic labeling of places. , 2010, , .		25
54	Efficient neighbourhood-based information gain approach for exploration of complex 3D environments. , 2013, , .		25

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55	Mutual information-based exploration on continuous occupancy maps. , 2015, , .		25
56	On the number of local minima to the point feature based SLAM problem. , 2012, , .		24
57	Human-robot environment interaction interface for robotic grit-blasting of complex steel bridges. Automation in Construction, 2012, 27, 11-23.	4.8	23
58	Ant Colony Optimization based Simultaneous Task Allocation and Path Planning of Autonomous Vehicles. , 2006, , .		22
59	Model-aided state estimation for quadrotor micro air vehicles amidst wind disturbances. , 2014, , .		22
60	Cram-Á Rao Bounds and Optimal Design Metrics for Pose-Graph SLAM. IEEE Transactions on Robotics, 2021, 37, 627-641.	7.3	22
61	Towards Vision Based Navigation in Large Indoor Environments. , 2006, , .		21
62	Information-Efficient 3-D Visual SLAM for Unstructured Domains. IEEE Transactions on Robotics, 2008, 24, 1078-1087.	7.3	21
63	A job grouping approach for planning container transfers at automated seaport container terminals. Advanced Engineering Informatics, 2011, 25, 413-426.	4.0	21
64	Linear SLAM: A linear solution to the feature-based and pose graph SLAM based on submap joining. , 2013, , .		21
65	Time-optimal coordinated control of the relative formation of multiple vehicles. , 0, , .		20
66	Convergence analysis for extended Kalman filter based SLAM. , 0, , .		20
67	Parallax angle parametrization for monocular SLAM. , 2011, , .		20
68	Iterated D-SLAM map joining: evaluating its performance in terms of consistency, accuracy and efficiency. Autonomous Robots, 2009, 27, 409-429.	3.2	19
69	An effective exploration approach to simultaneous mapping and surface material type identification of complex three-dimensional environments. Journal of Field Robotics, 2009, 26, 915-933.	3.2	19
70	Feature based SLAM using laser sensor data with maximized information usage. , 2011, , .		19
71	Multiobjective Optimization for Autonomous Straddle Carrier Scheduling at Automated Container Terminals. IEEE Transactions on Automation Science and Engineering, 2013, 10, 711-725.	3.4	19
72	Warped Gaussian Processes Occupancy Mapping With Uncertain Inputs. IEEE Robotics and Automation Letters, 2017, 2, 680-687.	3.3	19

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73	Natural landmark-based autonomous navigation using curvature scale space. , 0, , .		18
74	Optical flow based analyses to detect emotion from human facial image data. Expert Systems With Applications, 2010, 37, 8897-8902.	4.4	18
75	Visual-inertial fusion for quadrotor Micro Air Vehicles with improved scale observability. , 2013, , .		17
76	Motion Coordination of Multiple Autonomous Vehicles in Dynamic and Strictly Constrained Environments. , 2006, , .		16
77	C-LOG: A Chamfer distance based algorithm for localisation in occupancy grid-maps. CAAI Transactions on Intelligence Technology, 2016, 1, 272-284.	3.4	16
78	A convex optimization based approach for pose SLAM problems. , 2012, , .		15
79	Planning high-visibility stable paths for reconfigurable robots on uneven terrain. , 2012, , .		15
80	Fast, on-board, model-aided visual-inertial odometry system for quadrotor micro aerial vehicles. , 2016, , .		15
81	How far is SLAM from a linear least squares problem?. , 2010, , .		14
82	Robot path planning in a social context. , 2010, , .		14
83	Task oriented area partitioning and allocation for optimal operation of multiple industrial robots in unstructured environments. , 2014, , .		14
84	Learning object, grasping and manipulation activities using hierarchical HMMs. Autonomous Robots, 2014, 37, 317-331.	3.2	14
85	Adaptive Placement for Mobile Sensors in Spatial Prediction Under Locational Errors. IEEE Sensors Journal, 2017, 17, 794-802.	2.4	14
86	The nonlinearity structure of point feature SLAM problems with spherical covariance matrices. Automatica, 2013, 49, 3112-3119.	3.0	13
87	Dimensionality reduction for point feature SLAM problems with spherical covariance matrices. Automatica, 2015, 51, 149-157.	3.0	13
88	A Sparse Separable SLAM Back-End. IEEE Transactions on Robotics, 2016, 32, 1536-1549.	7.3	13
89	Large-scale monocular SLAM by local bundle adjustment and map joining. , 2010, , .		12
90	A statistical approach for uncertain stability analysis of mobile robots. , 2013, , .		12

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91	Planning Stable and Efficient Paths for Reconfigurable Robots On Uneven Terrain. Journal of Intelligent and Robotic Systems: Theory and Applications, 2017, 87, 291-312.	2.0	12
92	Linear SLAM: Linearising the SLAM problems using submap joining. Automatica, 2019, 100, 231-246.	3.0	12
93	A Variable Speed Force Field Method for Multi-Robot Collaboration. , 2006, , .		11
94	A new feature parametrization for monocular SLAM using line features. Robotica, 2015, 33, 513-536.	1.3	11
95	Tree-connectivity: Evaluating the graphical structure of SLAM. , 2016, , .		11
96	Designing a pulsed eddy current sensing set-up for cast iron thickness assessment. , 2017, , .		11
97	A Radio-Inertial Localization and Tracking System with BLE Beacons Prior Maps. , 2018, , .		11
98	Active Perception for Outdoor Localisation with an Omnidirectional Camera. , 2020, , .		11
99	Multi-robot simultaneous localization and mapping using D-SLAM framework. , 2007, , .		10
100	Surface Type Classification With a Laser Range Finder. IEEE Sensors Journal, 2009, 9, 1160-1168.	2.4	10
101	Multi-class classification for semantic labeling of places. , 2010, , .		10
102	Electromyogram (EMG) based fingers movement recognition using neighborhood preserving analysis with QR-decomposition. , 2011, , .		10
103	A Hierarchical Hidden Markov Model to support activities of daily living with an assistive robotic walker. , 2012, , .		10
104	Grid-based scan-to-map matching for accurate 2D map building. Advanced Robotics, 2016, 30, 431-448.	1.1	10
105	Mobile Robotic Sensors for Environmental Monitoring using Gaussian Markov Random Field. Robotica, 2021, 39, 862-884.	1.3	10
106	Exploiting the Separable Structure of SLAM. , 0, , .		10
107	A Force Field Method Based Multi-Robot Collaboration. , 2006, , .		9
108	Simultaneous Localisation and Mapping: A Stereo Vision Based Approach. , 2006, , .		9

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109	Wheelchair Driver Assistance and Intention Prediction using POMDPs. , 2007, , .		9
110	Evaluation of Pose Only SLAM. , 2010, , .		9
111	Electromyogram (EMG) based fingers movement recognition using Neighborhood Preserving Analysis with QR-decomposition. , 2011, , .		9
112	A neuroscientific approach to choice modeling: Electroencephalogram (EEG) and user preferences. , 2012, , .		9
113	Mobile robotic wireless sensor networks for efficient spatial prediction. , 2014, , .		9
114	Probabilistic stable motion planning with stability uncertainty for articulated vehicles on challenging terrains. Autonomous Robots, 2016, 40, 361-381.	3.2	9
115	Improved signal interpretation for cast iron thickness assessment based on pulsed eddy current sensing. , 2017, , .		9
116	Deep Samplable Observation Model for Global Localization and Kidnapping. IEEE Robotics and Automation Letters, 2021, 6, 2296-2303.	3.3	9
117	Intelligent driver drowsiness detection system using Uncorrelated Fuzzy Locality Preserving Analysis. , 2011, , .		8
118	Application of semi-supervised learning with Voronoi Graph for place classification. , 2012, , .		8
119	Estimation of a nonvisible field-of-view mobile target incorporating optical and acoustic sensors. Autonomous Robots, 2016, 40, 343-359.	3.2	8
120	Distance function based 6DOF localization for unmanned aerial vehicles in GPS denied environments. , 2017, , .		8
121	Trajectory planning for multiple robots in bearing-only target localisation. , 2005, , .		7
122	Modeling Errors in Small Baseline Stereo for SLAM. , 2006, , .		7
123	Identification of Inertial Parameters of an On-Road Vehicle. , 2007, , .		7
124	Trajectory optimisation for increased stability of mobile robots operating in uneven terrains. , 2009, , .		7
125	Robotic assistance with attitude: A mobility agent for motor function rehabilitation and ambulation support. , 2009, , .		7
126	Mathematical modelling of container transfers for a fleet of autonomous straddle carriers. , 2010, , .		7

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127	A new state vector for range-only SLAM. , 2011, , .		7
128	Simulated annealing based approach for near-optimal sensor selection in Gaussian Processes. , 2012, , .		7
129	Locational optimization based sensor placement for monitoring Gaussian processes modeled spatial phenomena. , 2013, , .		7
130	RISAS: A novel rotation, illumination, scale invariant appearance and shape feature. , 2017, , .		7
131	Linear SFM: A hierarchical approach to solving structure-from-motion problems by decoupling the linear and nonlinear components. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 141, 275-289.	4.9	7
132	Optimality principles in variable stiffness control: The VSA hammer. , 2011, , .		7
133	Mutual Information based Sensor Registration and Calibration. , 2006, , .		6
134	Mapping large scale environments using relative position information among landmarks. , 0, , .		6
135	Simultaneous dynamic scheduling and collision-free path planning for multiple autonomous vehicles. , 2009, , .		6
136	3D I-SLSJF: A consistent sparse local submap joining algorithm for building large-scale 3D Map. , 2009, , .		6
137	A kyno-dynamic metric to plan stable paths over uneven terrain. , 2010, , .		6
138	C-LOG: A Chamfer Distance based method for localisation in occupancy grid-maps. , 2013, , .		6
139	A probabilistic approach to learn activities of daily living of a mobility aid device user. , 2014, , .		6
140	Linear MonoSLAM: A linear approach to large-scale monocular SLAM problems. , 2014, , .		6
141	A Monocular Indoor Localiser Based on an Extended Kalman Filter and Edge Images from a Convolutional Neural Network. , 2018, , .		6
142	A solution to the inverse pulsed eddy current problem enabling 3D profiling. , 2018, , .		6
143	Near minimum time path planning for bearing-only localisation and mapping. , 2005, , .		5
144	Sensor Registration and Calibration using Moving Targets. , 2006, , .		5

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145	Robotic formation: initialisation, trajectory planning and decentralised control. International Journal of Automation and Control, 2008, 2, 22.	0.3	5
146	An adaptive manoeuvring strategy for mobile robots in cluttered dynamic environments. International Journal of Automation and Control, 2008, 2, 178.	0.3	5
147	Activity recognition from the interactions between an assistive robotic walker and human users. , 2011, , .		5
148	Fast global scan matching for high-speed vehicle navigation. , 2015, , .		5
149	Robust Global Structure From Motion Pipeline With Parallax on Manifold Bundle Adjustment and Initialization. IEEE Robotics and Automation Letters, 2019, 4, 2164-2171.	3.3	5
150	Parameter identification of autonomous vehicles using multi-objective optimization. Engineering Optimization, 2002, 34, 369-395.	1.5	4
151	Stochastic simulation in surface reconstruction and application to 3D mapping. , 0, , .		4
152	Decoupling localization and mapping in SLAM using compact relative maps. , 2005, , .		4
153	Optimal Control for Simultaneous Localisation and Mapping Problems in Indoor Environments with Stereo Vision. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	4
154	Exact state and covariance sub-matrix recovery for submap based sparse EIF SLAM algorithm. , 2008, , .		4
155	A two-tier map representation for compact-stereo-vision-based SLAM. Robotica, 2012, 30, 245-256.	1.3	4
156	Iterative coarse to fine approach for interpretation of defect profiles using MFL measurements. , 2015, , .		4
157	An extended Kalman filter for localisation in occupancy grid maps. , 2015, , .		4
158	From the skin-depth equation to the inverse RFEC sensor model. , 2016, , .		4
159	Localization system for carers to track elderly people in visits to a crowded shopping mall. , 2017, , .		4
160	Design of a lock-in amplifier integrated with a coil system for eddy-current non-destructive inspection. , 2017, , .		4
161	Comparison of two different objective functions in 2D point feature SLAM. Automatica, 2018, 97, 172-181.	3.0	4
162	A Novel Collaboratively Designed Robot to Assist Carers. Lecture Notes in Computer Science, 2014, , 105-114.	1.0	4

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163	Dynamic Bayesian Networks for Learning Interactions between Assistive Robotic Walker and Human Users. Lecture Notes in Computer Science, 2010, , 333-340.	1.0	4
164	Non-Field-of-View Acoustic Target Estimation in Complex Indoor Environment. Springer Tracts in Advanced Robotics, 2016, , 577-592.	0.3	4
165	Sensor Registration for Robotic Applications. Springer Tracts in Advanced Robotics, 2008, , 233-242.	0.3	4
166	Robotic Formation Control using Variable Structure Systems Approach. , 0, , .		3
167	Information Efficient 3D Visual SLAM in Unstructured Domains. , 2007, , .		3
168	New framework for Simultaneous Localization and Mapping: Multi map SLAM. , 2008, , .		3
169	Information-driven 6D SLAM based on ranging vision. , 2008, , .		3
170	Models for pushing objects with a mobile robot using single point contact. , 2010, , .		3
171	Towards a consistent SLAM algorithm using B-Splines to represent environments. , 2010, , .		3
172	A new state vector and a map joining algorithm for range-only SLAM. , 2012, , .		3
173	Application of CRF and SVM based semi-supervised learning for semantic labeling of environments. , 2012, , .		3
174	Development of a novel evidence-based automated powered mobility device competency assessment. , 2013, 2013, 6650452.		3
175	Socially aware path planning for mobile robots. Robotica, 2016, 34, 513-526.	1.3	3
176	Environment representation for mobile robot localisation. , 2017, , .		3
177	Eliminating Scale Drift in Monocular SLAM Using Depth From Defocus. IEEE Robotics and Automation Letters, 2018, 3, 581-587.	3.3	3
178	Leveraging Deep Learning Based Object Detection for Localising Autonomous Personal Mobility Devices in Sparse Maps. , 2019, , .		3
179	Anchor Selection for SLAM Based on Graph Topology and Submodular Optimization. IEEE Transactions on Robotics, 2022, 38, 329-350.	7.3	3
180	Implementation Issues and Experimental Evaluation of D-SLAM. , 2006, , 155-166.		3

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181	Multi-agent search with interim positive information. , 2007, , .		2
182	Map-aided 6-DOF relative pose estimation for monocular SLAM using sparse information filters. , 2010, , .		2
183	Models of motion patterns for mobile robotic systems. , 2010, , .		2
184	Optimisation model and exact algorithm for autonomous straddle carrier scheduling at automated container terminals. , 2011, , .		2
185	Skin Colour Detection Using the Statistical Decision Theory. Advanced Materials Research, 2013, 694-697, 1891-1895.	0.3	2
186	Spatially-distributed prediction with mobile robotic wireless sensor networks. , 2014, , .		2
187	Spatial prediction of hydrogen sulfide in sewers with a modified Gaussian process combined mutual information. , 2014, , .		2
188	Map-Based Navigation of an Autonomous Car Using Grid-Based Scan-to-Map Matching. , 2015, , .		2
189	Non-field-of-view sound source localization using diffraction and reflection signals. , 2016, , .		2
190	Multi-stage Bayesian target estimation by UAV using fisheye lens camera and pan/tilt camera. , 2017, , .		2
191	Multistage bayesian autonomy for high-precision operation in a large field. Journal of Field Robotics, 2019, 36, 183-203.	3.2	2
192	Robotics for Urban Search and Rescue. , 2006, , .		2
193	MINIMUM-TIME TRAJECTORIES FOR REDUCING LOAD SWAY IN QUAY-CRANES. Engineering Optimization, 2001, 33, 643-662.	1.5	1
194	Dynamic modelling and motion planning for a hybrid legged-wheeled mobile vehicle. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2001, 215, 7-25.	1.1	1
195	Cross-modal localization through mutual information. , 2009, , .		1
196	Automatic fine motor control behaviours for autonomous mobile agents operating on uneven terrains. , 2010, , .		1
197	Semi-autonomous competency assessment of powered mobility device users. , 2011, 2011, 5975364.		1
198	Convergence comparison of least squares based bearing-only SLAM algorithms using different landmark parametrizations. , 2012, , .		1

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199	Path planning with stability uncertainty for articulated mobile vehicles in challenging environments. , 2014, , .		1
200	A fast pipeline for textured object recognition in clutter using an RGB-D sensor. , 2014, , .		1
201	INFRASTRUCTURE ROBOTICS: OPPORTUNITIES AND CHALLENGES. , 2015, , .		1
202	A neural network based place recognition technique for a crowded indoor environment. , 2017, , .		1
203	Planar scan matching using incident angle. , 2017, , .		1
204	Calibration of a Rotating Laser Range Finder using Intensity Features. , 2018, , .		1
205	Sensing for Autonomous Navigation Inside Steel Bridges. , 2018, , .		1
206	Robot Localisation in 3D Environments Using Sparse Range Measurements. , 2019, , .		1
207	Parallax Bundle Adjustment on Manifold with Improved Global Initialization. Springer Proceedings in Advanced Robotics, 2020, , 621-638.	0.9	1
208	Designing Sparse Reliable Pose-Graph SLAM: A Graph-Theoretic Approach. Springer Proceedings in Advanced Robotics, 2020, , 17-32.	0.9	1
209	Tradeoffs in SLAM with Sparse Information Filters. Springer Tracts in Advanced Robotics, 2008, , 339-348.	0.3	1
210	Inertially aided navigation system for an LHD. , 0, , .		0
211	Towards improving driver situation awareness at intersections. , 2007, , .		0
212	Classification of Bidens in Wheat Farms. , 2008, , .		0
213	Mutual information based data association. , 2009, , .		0
214	Efficient Monocular SLAM using sparse information filters. , 2010, , .		0
215	Using common motion patterns to improve a robot's operation in populated environments. , 2010, , .		0
216	Parallel grid-based method and belief fusion — Real-time cooperative non-Gaussian estimation. , 2011, , .		0

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217	A strategy for efficient observation pruning in multi-objective 3D SLAM. , 2011, , .		0
218	Exploiting vehicle motion information in monocular SLAM. , 2012, , .		0
219	Mutual information based data selection in Gaussian Processes for 2D laser range finder based people tracking. , 2013, , .		0
220	Grid-Based Scan-to-Map Matching for Accurate Simultaneous Localization and Mapping: Theory and Preliminary Numerical Study. , 2013, , .		0
221	Constrained sampling of 2.5D probabilistic maps for augmented inference. , 2016, , .		0
222	Monocular 3D metric scale reconstruction using depth from defocus and image velocity. , 2017, , .		0
223	A Bayesian Framework for Simultaneous Robot Localization and Target Detection and Engagement. , 2018, , .		0
224	Representation of Uncertain Occupancy Maps with High Level Feature Vectors. , 2019, , .		0
225	APPLICATION OF MULTI-OBJECTIVE EVOLUTIONARY ALGORITHMS IN AUTONOMOUS VEHICLES NAVIGATION. Advances in Natural Computation, 2004, , 125-153.	0.1	0
226	Towards Adapting Autonomous Vehicle Technology for the Improvement of Personal Mobility Devices. , 2020, , .		0
227	Intelligent driver drowsiness detection system using Uncorrelated Fuzzy Locality Preserving Analysis. , 2011, , .		0
228	A strategy for efficient observation pruning in multi-objective 3D SLAM. , 2011, , .		0
229	Implementation Issues and Experimental Evaluation of D-SLAM. , 2006, , 155-166.		0