Rudolph Triebel

List of Publications by Year in descending order

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Version: 2024-02-01

1			566801	377514
	75	2,004	15	34
	papers	citations	h-index	g-index
ľ				
	77	77	77	1507
	all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Model for Multi-View Residual Covariances Based on Perspective Deformation. IEEE Robotics and Automation Letters, 2022, 7, 1960-1967.	3.3	2
2	Introspective Robot Perception Using Smoothed Predictions fromÂBayesian Neural Networks. Springer Proceedings in Advanced Robotics, 2022, , 660-675.	0.9	2
3	SRT3D: A Sparse Region-Based 3D Object Tracking Approach for the Real World. International Journal of Computer Vision, 2022, 130, 1008-1030.	10.9	19
4	Applying self-supervised learning for semantic cloud segmentation of all-sky images. Atmospheric Measurement Techniques, 2022, 15, 797-809.	1.2	19
5	Challenges of SLAM in Extremely Unstructured Environments: The DLR Planetary Stereo, Solid-State LiDAR, Inertial Dataset. IEEE Robotics and Automation Letters, 2022, 7, 8721-8728.	3.3	6
6	A Sparse Gaussian Approach to Region-Based 6DoF Object Tracking. Lecture Notes in Computer Science, 2021, , 666-682.	1.0	10
7	The MADMAX data set for visualâ€inertial rover navigation on Mars. Journal of Field Robotics, 2021, 38, 833-853.	3.2	18
8	The MMX Rover on Phobos: The Preliminary Design of the DLR Autonomous Navigation Experiment. , 2021, , .		5
9	From Evaluation to Verification: Towards Task-oriented Relevance Metrics for Pedestrian Detection in Safety-critical Domains., 2021,,.		16
10	"What's This?― Learning to Segment Unknown Objects from Manipulation Sequences. , 2021, , .		2
11	Learning to Localize in New Environments from Synthetic Training Data. , 2021, , .		6
12	Contact-GraspNet: Efficient 6-DoF Grasp Generation in Cluttered Scenes., 2021,,.		94
13	Exploration of Large Outdoor Environments Using Multi-Criteria Decision Making. , 2021, , .		2
14	Multi-Modal Loop Closing in Unstructured Planetary Environments with Visually Enriched Submaps. , 2021, , .		2
15	Unknown Object Segmentation from Stereo Images. , 2021, , .		17
16	Learning-Based Matching of 3D Submaps from Dense Stereo for Planetary-Like Environments. , 2021, , .		0
17	Augmented Autoencoders: Implicit 3D Orientation Learning for 6D Object Detection. International Journal of Computer Vision, 2020, 128, 714-729.	10.9	79
18	The ARCHES Space-Analogue Demonstration Mission: Towards Heterogeneous Teams of Autonomous Robots for Collaborative Scientific Sampling in Planetary Exploration. IEEE Robotics and Automation Letters, 2020, 5, 5315-5322.	3.3	46

#	Article	IF	CITATIONS
19	Information-Driven Direct RGB-D Odometry. , 2020, , .		15
20	Visual-Inertial Telepresence for Aerial Manipulation., 2020,,.		26
21	ARDEAâ€"An MAV with skills for future planetary missions. Journal of Field Robotics, 2020, 37, 515-551.	3.2	11
22	Relocalization With Submaps: Multi-Session Mapping for Planetary Rovers Equipped With Stereo Cameras. IEEE Robotics and Automation Letters, 2020, 5, 580-587.	3.3	15
23	Multi-Path Learning for Object Pose Estimation Across Domains. , 2020, , .		51
24	Gaussian Process Gradient Maps for Loop-Closure Detection in Unstructured Planetary Environments. , 2020, , .		6
25	3D Scene Reconstruction from a Single Viewport. Lecture Notes in Computer Science, 2020, , 51-67.	1.0	12
26	6DoF Pose Estimation for Industrial Manipulation Based on Synthetic Data. Springer Proceedings in Advanced Robotics, 2020, , 675-684.	0.9	2
27	Simultaneous Calibration and Mapping. Springer Proceedings in Advanced Robotics, 2020, , 791-800.	0.9	O
28	Robust MUSIC-Based Sound Source Localization in Reverberant and Echoic Environments. , 2020, , .		4
29	Visual Repetition Sampling for Robot Manipulation Planning. , 2019, , .		5
30	Incremental Semi-Supervised Learning from Streams for Object Classification. , 2018, , .		2
31	Appearance-Based Along-Route Localization for Planetary Missions. , 2018, , .		1
32	Persistent Anytime Learning of Objects from Unseen Classes. , 2018, , .		5
33	Semantic Labeling of Indoor Environments from 3D RGB Maps. , 2018, , .		16
34	Implicit 3D Orientation Learning for 6D Object Detection from RGB Images. Lecture Notes in Computer Science, 2018, , 712-729.	1.0	237
35	Experience-based optimization of robotic perception. , 2017, , .		5
36	Selecting CNN features for online learning of 3D objects. , 2017, , .		5

#	Article	IF	Citations
37	A method for hand-eye and camera-to-camera calibration for limited fields of view. , 2017, , .		1
38	Stream-based Active Learning for efficient and adaptive classification of 3D objects., 2016,,.		9
39	Introspective classification for robot perception. International Journal of Robotics Research, 2016, 35, 743-762.	5.8	25
40	SPENCER: A Socially Aware Service Robot for Passenger Guidance and Help in Busy Airports. Springer Tracts in Advanced Robotics, 2016, , 607-622.	0.3	157
41	Driven Learning for Driving: How Introspection Improves Semantic Mapping. Springer Tracts in Advanced Robotics, 2016, , 449-465.	0.3	13
42	Non-rigid 3D Shape Retrieval via Large Margin Nearest Neighbor Embedding. Lecture Notes in Computer Science, 2016, , 327-342.	1.0	10
43	Semi-supervised online learning for efficient classification of objects in 3D data streams. , 2015, , .		2
44	Active online confidence boosting for efficient object classification. , 2015, , .		4
45	Two different tools for three-dimensional mapping: DE-based scan matching and feature-based loop detection. Robotica, 2014, 32, 19-41.	1.3	23
46	Active Online Learning for Interactive Segmentation Using Sparse Gaussian Processes. Lecture Notes in Computer Science, 2014, , 641-652.	1.0	4
47	Optimal Intrinsic Descriptors for Non-Rigid Shape Analysis. , 2014, , .		21
48	A Bayesian Approach to Learning 3D Representations of Dynamic Environments. Springer Tracts in Advanced Robotics, 2014, , 461-475.	0.3	3
49	Environment-Adaptive Learning: How Clustering Helps to Obtain Good Training Data. Lecture Notes in Computer Science, 2014, , 68-79.	1.0	1
50	Toward automated driving in cities using close-to-market sensors: An overview of the V-Charge Project. , 2013, , .		85
51	Knowing when we don't know: Introspective classification for mission-critical decision making. , 2013, , .		24
52	Semantic categorization of outdoor scenes with uncertainty estimates using multi-class gaussian process classification. , 2012 , , .		14
53	Awareness of Road Scene Participants for Autonomous Driving. , 2012, , 1383-1432.		24
54	Bayesian on-line learning of driving behaviors. , 2011, , .		13

#	Article	IF	CITATIONS
55	Multiclass Multimodal Detection and Tracking in Urban Environments. International Journal of Robotics Research, 2010, 29, 1498-1515.	5.8	28
56	Unsupervised discovery of repetitive objects., 2010,,.		8
57	Inferring the semantics of direction signs in public places. , 2010, , .		3
58	Key technologies for intelligent and safer cars - From motion estimation to predictive collision avoidance. , $2010, \ldots$		3
59	Multiclass Multimodal Detection and Tracking in Urban Environments â∢†. Springer Tracts in Advanced Robotics, 2010, , 125-135.	0.3	8
60	Exploiting Repetitive Object Patterns for Model Compression and Completion. Lecture Notes in Computer Science, 2010, , 296-309.	1.0	10
61	Detecting pedestrians at very small scales. , 2009, , .		2
62	Monte Carlo localization in outdoor terrains using multilevel surface maps. Journal of Field Robotics, 2008, 25, 346-359.	3.2	67
63	Multimodal detection and tracking of pedestrians in urban environments with explicit ground plane extraction. , 2008, , .		20
64	Recovering the Shape of Objects in 3D Point Clouds with Partial Occlusions. Springer Tracts in Advanced Robotics, 2008, , 13-22.	0.3	2
65	Monte Carlo Localization in Outdoor Terrains Using Multi-Level Surface Maps. Springer Tracts in Advanced Robotics, 2008, , 213-222.	0.3	6
66	Collective Classification for Labeling of Places and Objects in 2D and 3D Range Data. Studies in Classification, Data Analysis, and Knowledge Organization, 2008, , 293-300.	0.1	2
67	Towards Mapping of Cities. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	28
68	An Efficient Extension to Elevation Maps for Outdoor Terrain Mapping and Loop Closing. International Journal of Robotics Research, 2007, 26, 217-230.	5.8	127
69	Supervised semantic labeling of places using information extracted from sensor data. Robotics and Autonomous Systems, 2007, 55, 391-402.	3.0	132
70	Non-Iterative Vision-Based Interpolation of 3D Laser Scans. Studies in Computational Intelligence, 2007, , 83-90.	0.7	14
71	Active Monte Carlo Localization in Outdoor Terrains Using Multi-level Surface Maps. Informatik Aktuell, 2007, , 29-35.	0.4	7
72	Multi-Level Surface Maps for Outdoor Terrain Mapping and Loop Closing. , 2006, , .		246

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#	Article	IF	CITATIONS
73	Improving plane extraction from 3D data by fusing laser data and vision. , 2005, , .		17
74	Using Hierarchical EM to Extract Planes from 3D Range Scans. , 0, , .		30
75	Robust 3D scan point classification using associative Markov networks. , 0, , .		46