

Dominik Belter

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

46
papers

395
citations

12
h-index

17
g-index

51
ext. papers

495
ext. citations

1.7
avg, IF

4.1
L-index

#	Paper	IF	Citations
46	Stereo Plane R-CNN: Accurate Scene Geometry Reconstruction Using Planar Segments and Camera-Agnostic Representation. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 4345-4352	4.2	0
45	Convolutional Neural Network-Based Local Obstacle Avoidance for a Mobile Robot. <i>Advances in Intelligent Systems and Computing</i> , 2021 , 262-271	0.4	
44	3D Dense Mapping with the Graph of Keyframe-Based and View-Dependent Local Maps. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2021 , 103, 1	2.9	0
43	Keyframe-based Dense Mapping with the Graph of View-Dependent Local Maps 2020 ,		1
42	PUT-HandHybrid Industrial and Biomimetic Gripper for Elastic Object Manipulation. <i>Electronics (Switzerland)</i> , 2020 , 9, 1147	2.6	4
41	Efficient Modeling and Evaluation of Constraints in Path Planning for Multi-Legged Walking Robots. <i>IEEE Access</i> , 2019 , 7, 107845-107862	3.5	5
40	Single-shot Foothold Selection and Constraint Evaluation for Quadruped Locomotion 2019 ,		4
39	Learning better generative models for dexterous, single-view grasping of novel objects. <i>International Journal of Robotics Research</i> , 2019 , 38, 1246-1267	5.7	9
38	Optimization-based legged odometry and sensor fusion for legged robot continuous localization. <i>Robotics and Autonomous Systems</i> , 2019 , 111, 110-124	3.5	4
37	Employing Natural Terrain Semantics in Motion Planning for a Multi-Legged Robot. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2019 , 93, 723-743	2.9	16
36	Mechanical Design and Control of Compliant Leg for a Quadruped Robot. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 500-509	0.4	0
35	Keyframe-based Local Normal Distribution Transform Occupancy Maps for Environment Mapping 2018 ,		2
34	Modeling spatial uncertainty of point features in feature-based RGB-D SLAM. <i>Machine Vision and Applications</i> , 2018 , 29, 827-844	2.8	10
33	An experimental study on feature-based SLAM for multi-legged robots with RGB-D sensors. <i>Industrial Robot</i> , 2017 , 44, 428-441	1.4	13
32	Terrain-aware motion planning for a walking robot 2017 ,		7
31	Optimized and Reconfigurable Environment for Simulation of Legged Robots. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 290-299	0.4	1
30	Improving accuracy of feature-based RGB-D SLAM by modeling spatial uncertainty of point features 2016 ,		12

29	Accurate Map-Based RGB-D SLAM for Mobile Robots. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 533-545	0.4	5
28	Evaluating Map-Based RGB-D SLAM on an Autonomous Walking Robot. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 469-481	0.4	1
27	Some Remarks on the Optimization-Based Trajectory Reconstruction of an RGB-D Sensor. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 223-230	0.4	
26	REAL-TIME SLAM FROM RGB-D DATA ON A LEGGED ROBOT: AN EXPERIMENTAL STUDY 2016 , 320-328		2
25	Fast Self-collision Detection Method for Walking Robots. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 549-559	0.4	
24	Adaptive Motion Planning for Autonomous Rough Terrain Traversal with a Walking Robot. <i>Journal of Field Robotics</i> , 2016 , 33, 337-370	6.7	34
23	RGBD terrain perception and dense mapping for legged robots. <i>International Journal of Applied Mathematics and Computer Science</i> , 2016 , 26, 81-97	1.7	21
22	On the Performance of Pose-Based RGB-D Visual Navigation Systems. <i>Lecture Notes in Computer Science</i> , 2015 , 407-423	0.9	10
21	The importance of measurement uncertainty modelling in the feature-based RGB-D SLAM 2015 ,		3
20	Lightweight RGB-D SLAM System for Search and Rescue Robots. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 11-21	0.4	6
19	Affordable Multi-legged Robots for Research and STEM Education: A Case Study of Design and Technological Aspects. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 23-34	0.4	4
18	Kinematically optimised predictions of object motion 2014 ,		5
17	Boosting Support Vector Machines for RGB-D Based Terrain Classification. <i>Journal of Automation, Mobile Robotics and Intelligent Systems</i> , 2014 , 8, 28-34	1	4
16	A Compact Walking Robot Flexible Research and Development Platform. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 343-352	0.4	17
15	Precise self-localization of a walking robot on rough terrain using parallel tracking and mapping. <i>Industrial Robot</i> , 2013 , 40, 229-237	1.4	27
14	2013 ,		9
13	Optimization-based Approach for Motion Planning of a Robot Walking on Rough Terrain. <i>Journal of Automation, Mobile Robotics and Intelligent Systems</i> , 2013 , 7, 34-41	1	3
12	Posture optimization strategy for a statically stable robot traversing rough terrain 2012 ,		12

11	Estimating terrain elevation maps from sparse and uncertain multi-sensor data 2012 ,		13
10	GAIT MODIFICATION STRATEGY FOR A SIX-LEGGED ROBOT WALKING ON ROUGH TERRAIN 2012 , 367-374		2
9	Perception-Based Motion Planning for a Walking Robot in Rugged Terrain. <i>Lecture Notes in Control and Information Sciences</i> , 2012 , 127-136	0.5	2
8	Integrated Motion Planning for a Hexapod Robot Walking on Rough Terrain. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 6918-6923		16
7	Rough terrain mapping and classification for foothold selection in a walking robot. <i>Journal of Field Robotics</i> , 2011 , 28, 497-528	6.7	57
6	Supporting locomotive functions of a six-legged walking robot. <i>International Journal of Applied Mathematics and Computer Science</i> , 2011 , 21, 363-377	1.7	4
5	Rough terrain mapping and classification for foothold selection in a walking robot 2010 ,		5
4	A biologically inspired approach to feasible gait learning for a hexapod robot. <i>International Journal of Applied Mathematics and Computer Science</i> , 2010 , 20, 69-84	1.7	20
3	Map-based adaptive foothold planning for unstructured terrain walking 2010 ,		13
2	Population-based Methods for Identification and Optimization of a Walking Robot Model. <i>Lecture Notes in Control and Information Sciences</i> , 2009 , 185-195	0.5	5
1	Evolving Feasible Gaits for a Hexapod Robot by Reducing the Space of Possible Solutions 2008 ,		5