

Krzysztof Walas

List of Publications by Year in descending order

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37
papers

471
citations

1040056

9
h-index

940533

16
g-index

37
all docs

37
docs citations

37
times ranked

345
citing authors

#	ARTICLE	IF	CITATIONS
1	Unsupervised Learning of Terrain Representations for Haptic Monte Carlo Localization. , 2022, , .		2
2	Autonomous, Onboard Vision-Based Trash and Litter Detection in Low Altitude Aerial Images Collected by an Unmanned Aerial Vehicle. Remote Sensing, 2021, 13, 965.	4.0	44
3	Tell Me, What Do You See?â€”Interpretable Classification of Wiring Harness Branches with Deep Neural Networks. Sensors, 2021, 21, 4327.	3.8	8
4	A Study of Cobot Practitioners Needs for Augmented Reality Interfaces in the Context of Current Technologies. , 2021, , .		1
5	Navigating by touch: haptic Monte Carlo localization via geometric sensing and terrain classification. Autonomous Robots, 2021, 45, 843-857.	4.8	12
6	Gaining a Sense of Touch Object Stiffness Estimation Using a Soft Gripper and Neural Networks. Electronics (Switzerland), 2021, 10, 96.	3.1	11
7	Fast Haptic Terrain Classification for Legged Robots Using Transformer. , 2021, , .		9
8	On Robustness of Multi-Modal Fusionâ€”Robotics Perspective. Electronics (Switzerland), 2020, 9, 1152.	3.1	14
9	PUT-Handâ€”Hybrid Industrial and Biomimetic Gripper for Elastic Object Manipulation. Electronics (Switzerland), 2020, 9, 1147.	3.1	12
10	What am I touching? Learning to classify terrain via haptic sensing. , 2019, , .		23
11	Robotic Touch: Classification of Materials for Manipulation and Walking. , 2019, , .		16
12	Where Should I Walk? Predicting Terrain Properties From Images Via Self-Supervised Learning. IEEE Robotics and Automation Letters, 2019, 4, 1509-1516.	5.1	107
13	Robotic Manipulation of Elongated and Elastic Objects. , 2019, , .		2
14	Spatial Transformations in Deep Neural Networks. , 2018, , .		0
15	Measuring Bending Angle and Hallucinating Shape of Elongated Deformable Objects. , 2018, , .		3
16	Deep neural networks for terrain recognition task. , 2018, , .		6
17	Simulated Local Deformation & Focal Length Optimisation For Improved Template-Based 3D Reconstruction of Non-Rigid Objects. , 2018, , .		0
18	Local descriptors robust to out-of-plane rotations. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
19	Review of 3D Objects Segmentation Methods. Advances in Intelligent Systems and Computing, 2017, , 595-604.	0.6	2
20	Depth data fusion for simultaneous localization and mapping " RGB-DD SLAM. , 2016, , .		5
21	Terrain classification and locomotion parameters adaptation for humanoid robots using force/torque sensing. , 2016, , .		24
22	Learning terrain types with the Pitman-Yor process mixtures of Gaussians for a legged robot. , 2015, , .		11
23	Terrain Classification and Negotiation with a Walking Robot. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 78, 401-423.	3.4	72
24	Lightweight RGB-D SLAM System for Search and Rescue Robots. Advances in Intelligent Systems and Computing, 2015, , 11-21.	0.6	13
25	Affordable Multi-legged Robots for Research and STEM Education: A Case Study of Design and Technological Aspects. Advances in Intelligent Systems and Computing, 2015, , 23-34.	0.6	5
26	CIE-Hand towards Prosthetic Limb. Advances in Intelligent Systems and Computing, 2015, , 275-284.	0.6	0
27	A hierarchical approach for joint multi-view object pose estimation and categorization. , 2014, , .		1
28	Terrain classification using Laser Range Finder. , 2014, , .		18
29	A Compact Walking Robot " Flexible Research and Development Platform. Advances in Intelligent Systems and Computing, 2014, , 343-352.	0.6	23
30	Hardware implementation of ground classification for a walking robot. , 2013, , .		2
31	The Classification of the Terrain by a Hexapod Robot. Advances in Intelligent Systems and Computing, 2013, , 825-833.	0.6	6
32	Discrete event controller for urban obstacles negotiation with walking robot. , 2012, , .		3
33	Improving Accuracy of Local Maps with Active Haptic Sensing. Lecture Notes in Control and Information Sciences, 2012, , 137-146.	1.0	3
34	Autonomous stair climbing with multisensor feedback. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 8159-8164.	0.4	2
35	Supporting locomotive functions of a six-legged walking robot. International Journal of Applied Mathematics and Computer Science, 2011, 21, 363-377.	1.5	6
36	Static Equilibrium Condition for a Multi-leg, Stairs Climbing Walking Robot. Lecture Notes in Control and Information Sciences, 2009, , 197-206.	1.0	0

#	ARTICLE	IF	CITATIONS
37	Distributed control system of DC servomotors for six legged walking robot. , 2008, , .		4