

# Krzysztof Walas

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

471  
citations

1040056

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h-index

940533

16  
g-index

37  
all docs

37  
docs citations

37  
times ranked

345  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Terrain Classification and Negotiation with a Walking Robot. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 78, 401-423.	3.4	72
3	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
4	Terrain classification and locomotion parameters adaptation for humanoid robots using force/torque sensing. , 2016, , .		24
5	What am I touching? Learning to classify terrain via haptic sensing. , 2019, , .		23
6	A Compact Walking Robot – Flexible Research and Development Platform. Advances in Intelligent Systems and Computing, 2014, , 343-352.	0.6	23
7	Terrain classification using Laser Range Finder. , 2014, , .		18
8	Robotic Touch: Classification of Materials for Manipulation and Walking. , 2019, , .		16
9	On Robustness of Multi-Modal Fusion – Robotics Perspective. Electronics (Switzerland), 2020, 9, 1152.	3.1	14
10	Lightweight RGB-D SLAM System for Search and Rescue Robots. Advances in Intelligent Systems and Computing, 2015, , 11-21.	0.6	13
11	PUT-Hand – Hybrid Industrial and Biomimetic Gripper for Elastic Object Manipulation. Electronics (Switzerland), 2020, 9, 1147.	3.1	12
12	Navigating by touch: haptic Monte Carlo localization via geometric sensing and terrain classification. Autonomous Robots, 2021, 45, 843-857.	4.8	12
13	Learning terrain types with the Pitman-Yor process mixtures of Gaussians for a legged robot. , 2015, , .		11
14	Gaining a Sense of Touch Object Stiffness Estimation Using a Soft Gripper and Neural Networks. Electronics (Switzerland), 2021, 10, 96.	3.1	11
15	Fast Haptic Terrain Classification for Legged Robots Using Transformer. , 2021, , .		9
16	Tell Me, What Do You See? – Interpretable Classification of Wiring Harness Branches with Deep Neural Networks. Sensors, 2021, 21, 4327.	3.8	8
17	Supporting locomotive functions of a six-legged walking robot. International Journal of Applied Mathematics and Computer Science, 2011, 21, 363-377.	1.5	6
18	Deep neural networks for terrain recognition task. , 2018, , .		6

#	ARTICLE	IF	CITATIONS
19	The Classification of the Terrain by a Hexapod Robot. Advances in Intelligent Systems and Computing, 2013, , 825-833.	0.6	6
20	Depth data fusion for simultaneous localization and mapping " RGB-DD SLAM. , 2016, , .		5
21	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
22	Distributed control system of DC servomotors for six legged walking robot. , 2008, , .		4
23	Discrete event controller for urban obstacles negotiation with walking robot. , 2012, , .		3
24	Measuring Bending Angle and Hallucinating Shape of Elongated Deformable Objects. , 2018, , .		3
25	Improving Accuracy of Local Maps with Active Haptic Sensing. Lecture Notes in Control and Information Sciences, 2012, , 137-146.	1.0	3
26	Autonomous stair climbing with multisensor feedback. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 8159-8164.	0.4	2
27	Hardware implementation of ground classification for a walking robot. , 2013, , .		2
28	Robotic Manipulation of Elongated and Elastic Objects. , 2019, , .		2
29	Review of 3D Objects Segmentation Methods. Advances in Intelligent Systems and Computing, 2017, , 595-604.	0.6	2
30	Unsupervised Learning of Terrain Representations for Haptic Monte Carlo Localization. , 2022, , .		2
31	A hierarchical approach for joint multi-view object pose estimation and categorization. , 2014, , .		1
32	Local descriptors robust to out-of-plane rotations. , 2017, , .		1
33	A Study of Cobot Practitioners Needs for Augmented Reality Interfaces in the Context of Current Technologies. , 2021, , .		1
34	Spatial Transformations in Deep Neural Networks. , 2018, , .		0
35	Static Equilibrium Condition for a Multi-leg, Stairs Climbing Walking Robot. Lecture Notes in Control and Information Sciences, 2009, , 197-206.	1.0	0
36	CIE-Hand towards Prosthetic Limb. Advances in Intelligent Systems and Computing, 2015, , 275-284.	0.6	0

#	ARTICLE	IF	CITATIONS
37	Simulated Local Deformation & Focal Length Optimisation For Improved Template-Based 3D Reconstruction of Non-Rigid Objects. , 2018, , .		0