Genya Ishigami

List of Publications by Year
in descending order

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35	408	1040056	888059
papers	citations	9	17
		h-index	g-index

35	35	35	298
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Slope traversal controls for planetary exploration rover on sandy terrain. Journal of Field Robotics, 2009, 26, 264-286.	6.0	48
2	Path Following Control with Slip Compensation on Loose Soil for Exploration Rover. , 2006, , .		44
3	Stochastic mobility-based path planning in uncertain environments. , 2009, , .		40
4	Odometry Correction Using Visual Slip Angle Estimation for Planetary Exploration Rovers. Advanced Robotics, 2010, 24, 359-385.	1.8	40
5	Predictable mobility. IEEE Robotics and Automation Magazine, 2009, 16, 61-70.	2.0	30
6	Development of in-wheel sensor system for accurate measurement of wheel terrain interaction characteristics. Journal of Terramechanics, 2015, 62, 51-61.	3.1	25
7	Design, Development, and Mobility Evaluation of an Omnidirectional Mobile Robot for Rough Terrain. Journal of Field Robotics, 2015, 32, 880-896.	6.0	20
8	Development of a Visual Odometry System for a Wheeled Robot on Loose Soil using a Telecentric Camera. Advanced Robotics, 2010, 24, 1149-1167.	1.8	19
9	Rangeâ€dependent Terrain Mapping and Multipath Planning using Cylindrical Coordinates for a Planetary Exploration Rover. Journal of Field Robotics, 2013, 30, 536-551.	6.0	17
10	Statistical mobility prediction for planetary surface exploration rovers in uncertain terrain. , 2010, , .		15
11	Energy efficient slope traversability planning for mobile robot in loose soil. , 2017, , .		13
12	Wheel Slip Classification Method for Mobile Robot in Sandy Terrain Using In-Wheel Sensor. Journal of Robotics and Mechatronics, 2017, 29, 902-910.	1.0	13
13	Experimental study on wheel-soil interaction mechanics using in-wheel sensor and particle image velocimetry Part I: Analysis and modeling of normal stress of lightweight wheeled vehicles. Journal of Terramechanics, 2021, 93, 23-39.	3.1	11
14	Traversability-Based RRT*for Planetary Rover Path Planning in Rough Terrain with LIDAR Point Cloud Data. Journal of Robotics and Mechatronics, 2017, 29, 838-846.	1.0	11
15	Excavation model of soil sampling device based on particle image velocimetry. Journal of Terramechanics, 2015, 62, 19-29.	3.1	9
16	Energy-aware trajectory planning for planetary rovers. Advanced Robotics, 2021, 35, 1302-1316.	1.8	8
17	Terrain adaptive detector selection for visual odometry in natural scenes. Advanced Robotics, 2013, 27, 1465-1476.	1.8	7
18	Experimental study on wheel-soil interaction mechanics using in-wheel sensor and particle image velocimetry part II. Analysis and modeling of shear stress of lightweight wheeled vehicle. Journal of Terramechanics, 2020, 91, 243-256.	3.1	7

#	Article	IF	Citations
19	Vision-based measurement of spatio-temporal deformation of excavated soil for the estimation of bucket resistive force. Journal of Terramechanics, 2020, 90, 11-21.	3.1	5
20	Visualization and analysis of wheel camber angle effect for slope traversability using an in-wheel camera. Journal of Terramechanics, 2021, 93, 1-10.	3.1	4
21	Current Status of, and Challenges in Relation to, the Development of Planetary Exploration Rovers at JAXA. Journal of the Robotics Society of Japan, 2014, 32, 408-411.	0.1	4
22	Spatio-temporal prediction of soil deformation in bucket excavation using machine learning. Advanced Robotics, 0, , 1-14.	1.8	3
23	Computationally Efficient Mapping for a Mobile Robot with a Downsampling Method for the Iterative Closest Point. Journal of Robotics and Mechatronics, 2018, 30, 65-75.	1.0	3
24	Generalized Force-and-Energy Manipulability for design and control of redundant robotic arm. , 2015, , .		2
25	Gyro-based odometry associated with steering characteristics for wheeled mobile robot in rough terrain. Advanced Robotics, 2016, 30, 1495-1508.	1.8	2
26	Strategy Optimization for Energy Efficient Extraterrestrial Drilling Using Combined Power Map. IEEE Robotics and Automation Letters, 2017, 2, 1980-1987.	5.1	2
27	Routing Problem of Multiple Mobile Robots with Human Workers for Pickup and Dispatch Tasks in Warehouse. , 2019, , .		2
28	Automated Dust Devil Detection on Mars. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2016, 14, Pk_131-Pk_136.	0.2	1
29	Wide-range routing method for lunar exploration rovers using multi-objective optimization. Advanced Robotics, 2021, 35, 1317-1331.	1.8	1
30	Spatio-Temporal Prediction of Soil Deformation using Machine Learning. Journal of the Robotics Society of Japan, 2021, 39, 367-370.	0.1	1
31	CNN-Based Terrain Classification with Moisture Content Using RGB-IR Images. Journal of Robotics and Mechatronics, 2021, 33, 1294-1302.	1.0	1
32	A28 Wheel Parameter Evaluation using Uncertainty Analysis for High Traversability on Sandy Terrain. The Proceedings of the Symposium on the Motion and Vibration Control, 2013, 2013.13, _A28-1_-_A28-9_.	0.0	0
33	Design and Development of Built-in-Clutch Joint for Single-Drive and Multi-Degrees of Freedom Manipulator. The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2015, 2015.6, 257-258.	0.0	0
34	Development and Performance Evaluation of Planar Travel Distance Sensors for Mobile Robots in Sandy Terrain. Journal of Robotics and Mechatronics, 2017, 29, 887-894.	1.0	0
35	Special issue on Advanced Construction Robot System. Advanced Robotics, 2021, 35, 1375-1375.	1.8	0