

Kazuya Yoshida

List of Publications by Year in descending order

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236
papers

5,897
citations

172457

29
h-index

110387

64
g-index

243
all docs

243
docs citations

243
times ranked

3204
citing authors

#	ARTICLE	IF	CITATIONS
1	Bimodal mobility actuated by inertial forces with surface elastic bodies in microgravity. <i>Robotica</i> , 2022, 40, 294-315.	1.9	2
2	ClimbLab: MATLAB Simulation Platform for Legged Climbing Robotics. <i>Lecture Notes in Networks and Systems</i> , 2022, , 229-241.	0.7	2
3	Low-Reaction Trajectory Generation for a Legged Robot in Microgravity. , 2022, , .		3
4	Automated Image Processing Module for Images Captured by Earth Observation Microsatellite Diwata-1 as Support for Ground Station Operations. <i>Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan</i> , 2021, 19, 493-499.	0.2	0
5	Analysis of Motion Control for a Quadruped Ground-Gripping Robot for Minor Body Exploration on Uneven Terrain. <i>Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan</i> , 2021, 19, 794-801.	0.2	0
6	Terrain-Dependent Slip Risk Prediction for Planetary Exploration Rovers. <i>Robotica</i> , 2021, 39, 1883-1896.	1.9	8
7	In-Flight Target Pointing Calibration of the Diwata-2 Earth Observation Microsatellite. , 2021, , .		2
8	Analysis of soil flow and traction mechanics for lunar rovers over different types of soils using particle image velocimetry. <i>Journal of Terramechanics</i> , 2021, 95, 89-100.	3.1	1
9	SegVisRL: development of a robot's neural visuomotor and planning system for lunar exploration. <i>Advanced Robotics</i> , 2021, 35, 1359-1373.	1.8	2
10	DEM Analysis and Evaluation of Hopping Motion on a Sandy Surface in Microgravity. <i>Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan</i> , 2021, 19, 639-646.	0.2	0
11	HubRobo: A Lightweight Multi-Limbed Climbing Robot for Exploration in Challenging Terrain. , 2021, , .		12
12	Experimental Validation of Deterministic Radio Propagation Model developed for Communication-aware Path Planning. , 2021, , .		1
13	Maintaining Connectivity in Multi-Rover Networks for Lunar Exploration Missions. , 2021, , .		0
14	Shape effects of wheel grousers on traction performance on sandy terrain. <i>Journal of Terramechanics</i> , 2020, 90, 23-30.	3.1	11
15	Commercial Uncooled Microbolometer Camera Applied to 50-kg Class Satellite. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2020, 17, 332-336.	3.1	1
16	Soil flow analysis for grouser wheels based on a particle image velocimetry method. <i>Journal of Terramechanics</i> , 2020, 91, 233-241.	3.1	4
17	Analysis of Soil Deformation and Wheel Traction on Loose Terrain Using PIV. , 2020, , .		2
18	Orbit insertion strategy of Hayabusa2â€™s rover with large release uncertainty around the asteroid Ryugu. <i>Astrodynamics</i> , 2020, 4, 309-329.	2.4	12

#	ARTICLE	IF	CITATIONS
19	PPMC Training Algorithm: A Deep Learning Based Path Planner and Motion Controller. , 2020, , .		1
20	Adaptive Slope Locomotion with Deep Reinforcement Learning. , 2020, , .		3
21	Tumbling and Hopping Locomotion Control for a Minor Body Exploration Robot. , 2020, , .		4
22	Space Robotics. , 2020, , 1-5.		0
23	Attitude Maneuvering Sequence Design of High-Precision Ground Target Tracking Control for Multispectral Earth Observations. , 2019, , .		6
24	Stress distributions of a grouser wheel on loose soil. Journal of Terramechanics, 2019, 85, 15-26.	3.1	11
25	High-speed mobility on planetary surfaces: A technical review. Journal of Field Robotics, 2019, 36, 1436-1455.	6.0	17
26	Gait Planning for a Free-Climbing Robot Based on Tumble Stability. , 2019, , .		10
27	Development and Ground Evaluation of Ground-Target Tracking Control of Microsatellite RISESAT. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2019, 17, 120-126.	0.2	6
28	Characteristics Evaluation and Performance Improvement Method of Balloon-Borne Telescope Pointing Control System. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2019, 17, 51-56.	0.2	0
29	Towards Generating Simulated Walking Motion Using Position Based Deep Reinforcement Learning. Lecture Notes in Computer Science, 2019, , 467-470.	1.3	3
30	Passive Spine Gripper for Free-Climbing Robot in Extreme Terrain. IEEE Robotics and Automation Letters, 2018, 3, 1765-1770.	5.1	39
31	Development and Ground Evaluation of Fast Tracking Algorithm for Star Trackers. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2018, 16, 202-209.	0.2	6
32	Repeated Impact-Based Capture of a Spinning Object by a Dual-Arm Space Robot. Frontiers in Robotics and AI, 2018, 5, 115.	3.2	8
33	HPT: A High Spatial Resolution Multispectral Sensor for Microsatellite Remote Sensing. Sensors, 2018, 18, 619.	3.8	20
34	Initial Design Characteristics, Testing and Performance Optimisation for a Lunar Exploration Micro-Rover Prototype. Advances in Astronautics Science and Technology, 2018, 1, 111-117.	0.8	5
35	Qualification of a Time-of-Flight Camera as a Hazard Detection and Avoidance Sensor for a Moon Exploration Microrover. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2018, 16, 619-627.	0.2	3
36	Preliminary Radiation Test Result for Space-Ready Qualification of Lunar Micro Rover. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2018, 16, 613-618.	0.2	0

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37	Development and ground evaluation of optical ground station tracking control system of microsatellite RISESAT. , 2017, , .		8
38	Improvement and verification of satellite dynamics simulator based on flight data analysis. , 2017, , .		11
39	Sprites identification and their spatial distributions in JEM-GLIMS nadir observations. Terrestrial, Atmospheric and Oceanic Sciences, 2017, 28, 545-561.	0.6	2
40	Special Issue on AI, Robotics, and Automation in Space. Journal of Robotics and Mechatronics, 2017, 29, 791-791.	1.0	0
41	Analysis on Motion Control Based on Reaction Null Space for Ground Grip Robot on an Asteroid. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2016, 14, Pk_125-Pk_130.	0.2	5
42	Measurement of stress distributions of a wheel with grousers traveling on loose soil. , 2016, , .		4
43	Attitude determination and control system for nadir pointing using magnetorquer and magnetometer. , 2016, , .		11
44	An overview of VHF lightning observations by digital interferometry from ISS/JEM-GLIMS. Earth, Planets and Space, 2016, 68, .	2.5	4
45	Space Robotics. Springer Handbooks, 2016, , 1423-1462.	0.6	11
46	Development of fast tracking algorithm using nearest neighbor star search approach. , 2016, , .		2
47	Navigation system for a small size lunar exploration rover with a monocular omnidirectional camera. Proceedings of SPIE, 2016, , .	0.8	1
48	Design and Implementation of a Thermopile-Based Earth Sensor. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2016, 14, Pf_77-Pf_81.	0.2	2
49	Development and Flight Results of Microsatellite Bus System for RISING-2. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2016, 14, Pf_89-Pf_96.	0.2	16
50	FUJIN-2:Balloon Borne Telescope for Optical Observation of Planets. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2016, 14, Pk_95-Pk_102.	0.2	2
51	Development of Reaction Wheels for Cubesats Using a Solid Lubricant Bearing. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2016, 14, Pf_113-Pf_118.	0.2	2
52	Low-Cost Simulation and Verification Environment for Micro-Satellites. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2016, 14, Pf_83-Pf_88.	0.2	1
53	Improvement of Star Sensor in Generic Test Environment. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2016, 14, Pf_97-Pf_103.	0.2	1
54	Verification of gait control based on reaction null-space for ground-gripping robot in microgravity. , 2016, , .		3

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55	Horizontal distributions of sprites derived from the JEMâ€GLIMS nadir observations. Journal of Geophysical Research D: Atmospheres, 2016, 121, 3171-3194.	3.3	13
56	Update on the Qualification of the Hakuto Micro-rover for the Google Lunar X-Prize. Springer Tracts in Advanced Robotics, 2016, , 313-330.	0.4	4
57	Four-Wheel Rover Performance Analysis at Lunar Analog Test. Springer Tracts in Advanced Robotics, 2016, , 361-371.	0.4	0
58	Experimental evaluation of thermal simulation model for lunar exploration rover. , 2015, , .		0
59	Overview and early results of the Global Lightning and Sprite Measurements mission. Journal of Geophysical Research D: Atmospheres, 2015, 120, 3822-3851.	3.3	33
60	Study of How To Sense Slippage by Motor-Tractive-Currents for Odometry of Tracked Vehicles. Journal of the Robotics Society of Japan, 2015, 33, 433-440.	0.1	1
61	Experimental evaluation of gripping characteristics based on frictional theory for ground grip locomotive robot on an asteroid. , 2015, , .		2
62	Measurement and modeling for two-dimensional normal stress distribution of wheel on loose soil. Journal of Terramechanics, 2015, 62, 63-73.	3.1	17
63	Evaluation of Hovering Thrust Performance of Shrouded Rotors for Multi-rotor UAVs to Reduce Weight. , 2015, , .		2
64	Lunar Micro Rover Design for Exploration through Virtual Reality Tele-operation. Springer Tracts in Advanced Robotics, 2015, , 259-272.	0.4	13
65	Operation Results of Cubesat RAIKO Released from International Space Station. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2014, 12, Tf_7-Tf_12.	0.2	2
66	Establishment of the Ground Testing Environment for Verification and Integration of Micro-satellite. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2014, 12, Tf_33-Tf_38.	0.2	4
67	Improvement of slope traversability for a multi-DOF tracked vehicle with active reconfiguration of its joint forms. , 2014, , .		3
68	Simultaneous control for end-point motion and vibration suppression of a space robot based on simple dynamic model. , 2014, , .		6
69	Space Robotics. , 2014, , 541-573.		8
70	Development and field test of teleoperated mobile robots for active volcano observation. , 2014, , .		17
71	Measurement method for two-dimensional normal stress distribution of wheels on lateral loose soil slopes. , 2014, , .		1
72	Editorial-Special Issue on Field and Service Robotics. Journal of Field Robotics, 2014, 31, 729-730.	6.0	0

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73	Development of small optical transmitter for microsattellites. , 2014, , .		0
74	Teleoperation of mobile robots using hybrid communication system in unreliable radio communication environments. , 2014, , .		2
75	Field and Service Robotics. Springer Tracts in Advanced Robotics, 2014, , .	0.4	8
76	Modeling and analysis of tether-based mobile robot based on flight experiments. , 2014, , .		0
77	Control of a Group of Mobile Robots Based on Formation Abstraction and Decentralized Locational Optimization. IEEE Transactions on Robotics, 2014, 30, 550-565.	10.3	22
78	Development and field testing of UAV-based sampling devices for obtaining volcanic products. , 2014, , .		7
79	Collaborative Mapping of an Earthquake Damaged Building via Ground and Aerial Robots. Springer Tracts in Advanced Robotics, 2014, , 33-47.	0.4	60
80	Three-Dimensional Thermography Mapping for Mobile Rescue Robots. Springer Tracts in Advanced Robotics, 2014, , 49-63.	0.4	17
81	Design of underactuated hand for caging-based grasping of free-flying object. , 2013, , .		18
82	Volcanic ash observation in active volcano areas using teleoperated mobile robots - Introduction to our robotic-volcano-observation project and field experiments. , 2013, , .		15
83	Modeling and analysis of ciliary micro-hopping locomotion actuated by an eccentric motor in a microgravity. , 2013, , .		9
84	Vibration suppression control of a space robot with flexible appendage based on simple dynamic model. , 2013, , .		9
85	Path planning for mobile robot on rough terrain based on sparse transition cost propagation in extended elevation maps. , 2013, , .		6
86	Positioning device for outdoor mobile robots using optical sensors and lasers. Advanced Robotics, 2013, 27, 1147-1160.	1.8	6
87	Emergency response to the nuclear accident at the Fukushima Daiichi Nuclear Power Plants using mobile rescue robots. Journal of Field Robotics, 2013, 30, 44-63.	6.0	453
88	Design of wheels with grousers for planetary rovers traveling over loose soil. Journal of Terramechanics, 2013, 50, 345-353.	3.1	26
89	Modeling, Analysis, and Control of an Actively Reconfigurable Planetary Rover for Traversing Slopes Covered with Loose Soil. Journal of Field Robotics, 2013, 30, 875-896.	6.0	34
90	Development of multi-D.O.F. tracked vehicle to traverse weak slope and climb up rough slope. , 2013, , .		10

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91	Impacts of Space Plug-and-Play Technology on Micro- and Nano-satellites. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 289-294.	0.4	2
92	Model-based Environment for Verification and Integration of Micro-satellites. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 230-235.	0.4	3
93	Demands on Reliable and Robust Wireless Communications under Land-Sea-and-Air Extreme Environments. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2013, E96.A, 844-852.	0.3	1
94	Local Path Planner for Mobile Robot in Dynamic Environment based on Distance Time Transform Method. Advanced Robotics, 2012, 26, 1623-1647.	1.8	16
95	Lessons learned on structural design of 50kg micro-satellites based on three real-life micro-satellite projects. , 2012, , .		4
96	Slope traversability analysis of reconfigurable planetary rovers. , 2012, , .		11
97	Evaluation of influence of surface shape of locomotion mechanism on traveling performance of planetary rovers. , 2012, , .		5
98	Impedance-based contact control of a free-flying space robot with a compliant wrist for non-cooperative satellite capture. , 2012, , .		41
99	Evaluation of the reconfiguration effects of planetary rovers on their lateral traversing of sandy slopes. , 2012, , .		12
100	The pointing control method of balloon-borne telescope compensating the motion of flexible base. , 2012, , .		1
101	Collaborative mapping of an earthquake-damaged building via ground and aerial robots. Journal of Field Robotics, 2012, 29, 832-841.	6.0	294
102	Satellite-to-ground optical communication system on Low Earth Orbit micro-satellite RISESAT. , 2012, , .		3
103	Ground test of attitude control system for micro satellite RISING-2. , 2012, , .		8
104	Contact Dynamics Modeling for Snare Wire Type of End Effector in Capture Operation. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2012, 10, Pd_77-Pd_84.	0.2	1
105	The Evaluation Tests of the Attitude Control System of the 50-kg Micro Satellite RISING-2. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2012, 10, Td_11-Td_16.	0.2	1
106	System Integration of a Star Sensor for the Small Earth Observation Satellite RISING-2. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2012, 10, Td_1-Td_6.	0.2	3
107	Traveling performance evaluation of planetary rovers on loose soil. Journal of Field Robotics, 2012, 29, 648-662.	6.0	76
108	Lunar Robotics Challenge. Journal of Field Robotics, 2012, 29, 533-534.	6.0	0

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109	Experimental Verification of Vibration Control of a Flexible Arm for REX-J Robotic Demonstration on JEM. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2012, 10, Pd_27-Pd_32.	0.2	1
110	B4 Development Method of Command and Dat Handling System Based on Microsatellite RISING-2 and Cubesat RAIKO. The Proceedings of the Space Engineering Conference, 2012, 2011.20, _B4-1_-_B4-5_.	0.1	0
111	Static closed loop test system for attitude control system of micro satellite RISING-2. , 2011, , .		3
112	Satellite system integration based on Space Plug and Play Avionics. , 2011, , .		9
113	Traveling performance estimation for planetary rovers over slope. , 2011, , .		3
114	Development and evaluation of autonomous mobile manipulator for large scale outdoor environment. , 2011, , .		1
115	Impedance-based contact control of a free-flying space robot with respect to coefficient of restitution. , 2011, , .		21
116	Time-optimal detumbling maneuver along an arbitrary arm motion during the capture of a target satellite. , 2011, , .		0
117	Planetary roversâ€™ wheelâ€™soil interaction mechanics: new challenges and applications for wheeled mobile robots. Intelligent Service Robotics, 2011, 4, 17-38.	2.6	57
118	Editorial: special issue on space robotics. Intelligent Service Robotics, 2011, 4, 1-1.	2.6	1
119	Multirobot exploration for search and rescue missions: A report on map building in RoboCupRescue 2009. Journal of Field Robotics, 2011, 28, 373-387.	6.0	36
120	Development of legâ€™track hybrid locomotion to traverse loose slopes and irregular terrain. Journal of Field Robotics, 2011, 28, 950-960.	6.0	25
121	Shared autonomy system for tracked vehicles on rough terrain based on continuous threeâ€™dimensional terrain scanning. Journal of Field Robotics, 2011, 28, 875-893.	6.0	41
122	Experimental study and analysis on driving wheelsâ€™ performance for planetary exploration rovers moving in deformable soil. Journal of Terramechanics, 2011, 48, 27-45.	3.1	169
123	Gamma-ray irradiation test of electric components of rescue mobile robot Quince. , 2011, , .		46
124	Time-optimal detumbling maneuver along an arbitrary arm motion during the capture of a target satellite. , 2011, , .		14
125	Path planning and evaluation for planetary rovers based on dynamic mobility index. , 2011, , .		11
126	Path Planning and Evaluation for Planetary Rovers Based on Dynamic Mobility Index. , 2011, , .		20

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127	The Global Lightning and Sprite Measurement (GLIMS) Mission on International Space Station -Concept and Overview-. IEEJ Transactions on Fundamentals and Materials, 2011, 131, 971-976.	0.2	12
128	æœˆæf'æ~ŸæŽœŸ»ç'''çš»â••ãfãfœãffãf~ã@é-«ç™º. Journal of the Japan Society for Precision Engineering, 2011, 077, 12-15.		
129	Lightning and Sprite Observation from International Space Station. IEEJ Transactions on Fundamentals and Materials, 2011, 131, 16-20.	0.2	1
130	Analysis of Contact Dynamics for Free-Flying Target Capture Operation with Hybrid Simulation(Mechanical Systems). Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2010, 76, 2294-2299.	0.2	0
131	SPRITE-SAT: a Micro Satellite for Scientific Observation of Transient Luminous Events and Terrestrial Gamma-Ray Flashes. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2010, 8, Tm_7-Tm_12.	0.2	7
132	Collision avoidance method for mobile robot considering motion and personal spaces of evacuees. , 2010, , .		23
133	Time-Optimal Manipulator Control for Management of Angular Momentum Distribution during the Capture of a Tumbling Target. Advanced Robotics, 2010, 24, 441-466.	1.8	18
134	Noncontact position estimation device with optical sensor and laser sources for mobile robots traversing slippery terrains. , 2010, , .		16
135	The balloon-borne telescope system for optical observation of planets. , 2010, , .		4
136	Terramechanics-based high-fidelity dynamics simulation for wheeled mobile robot on deformable rough terrain. , 2010, , .		14
137	Odometry Correction Using Visual Slip Angle Estimation for Planetary Exploration Rovers. Advanced Robotics, 2010, 24, 359-385.	1.8	40
138	Adaptive Reaction Control for Space Robotic Applications with Dynamic Model Uncertainty. Advanced Robotics, 2010, 24, 1099-1126.	1.8	41
139	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
140	Development of leg-track hybrid locomotion to traverse loose slopes and irregular terrain. , 2010, , .		4
141	Virtual mass of impedance system for free-flying target capture. , 2010, , .		11
142	Shared autonomy system for tracked vehicles to traverse rough terrain based on continuous three-dimensional terrain scanning. , 2010, , .		11
143	Connected tracked robot with offset joint mechanism for multiple configurations. , 2010, , .		1
144	Dynamic Simulation-Based Action Planner for a Reconfigurable Hybrid Leg"Wheel Planetary Exploration Rover. Advanced Robotics, 2010, 24, 1219-1238.	1.8	35

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145	Attitude control system of micro satellite RISING-2. , 2010, , .		9
146	Influence evaluation of wheel surface profile on traversability of planetary rovers. , 2010, , .		1
147	Mechanical design of the Wheel-Leg hybrid mobile robot to realize a large wheel diameter. , 2010, , .		52
148	A bio-inspired compliant claw for arboreal locomotion in microgravity environments. , 2010, , .		3
149	Safety path planning for mobile robot on rough terrain considering instability of attitude maneuver. , 2010, , .		5
150	Integrated experimental environment for orbital robotic systems, using ground-based and free-floating manipulators. , 2010, , .		5
151	SPRITE-SAT: A University Small Satellite for Observation of High-Altitude Luminous Events. , 2010, , 197-206.		15
152	Field Experiment on Multiple Mobile Robots Conducted in an Underground Mall. Springer Tracts in Advanced Robotics, 2010, , 365-375.	0.4	14
153	Highly Precise Pointing Control System on a Balloon-Borne Telescope for Optical Observations of Planets. Transactions of the Japan Society for Aeronautical and Space Sciences Aerospace Technology Japan, 2010, 8, Pm_15-Pm_20.	0.2	4
154	Projected-Based Hands-On Education in Tohoku University. Journal of Jsee, 2010, 58, 50-53.	0.0	0
155	Development of a Multi-Spectrum Imager for the S-520 Sounding Rocket. Transactions of the Japan Society for Aeronautical and Space Sciences Space Technology Japan, 2009, 7, Tn_7-Tn_12.	0.2	0
156	A Novel Teleoperated Hybrid Wheel-Limb Hexapod for Lunar Craters' Exploration. Transactions of the Japan Society for Aeronautical and Space Sciences Space Technology Japan, 2009, 7, Tk_71-Tk_76.	0.2	0
157	Tracked vehicle with circular cross-section to realize sideways motion. , 2009, , .		3
158	Slip ratio for lugged wheel of planetary rover in deformable soil: definition and estimation. , 2009, , .		37
159	Basic running test of the cylindrical tracked vehicle with sideways mobility. , 2009, , .		10
160	Teleoperation of all-terrain robot using continuous acquisition of three-dimensional environment under time-delayed narrow bandwidth communication. , 2009, , .		9
161	Motion control of multi-limbed robots for asteroid exploration missions. , 2009, , .		18
162	Semi-autonomous operation of tracked vehicles on rough terrain using autonomous control of active flippers. , 2009, , .		34

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181	Action planner of hybrid leg-wheel robots for lunar and planetary exploration. , 2008, , .		12
182	Trafficability analysis for lunar/planetary exploration rover using Thrust-Cornering Characteristic Diagram. , 2008, , .		2
183	Crawler vehicle with circular cross-section unit to realize sideways motion. , 2008, , .		22
184	Time-optimal manipulator control of a free-floating space robot with constraint on reaction torque. , 2008, , .		13
185	Continuous Acquisition of Three-Dimensional Environment Information for Tracked Vehicles on Uneven Terrain. , 2008, , .		29
186	Mechanical design of cylindrical track for sideways motion. , 2008, , .		8
187	Development of a Networked Robotic System for Disaster Mitigation. Springer Tracts in Advanced Robotics, 2008, , 453-462.	0.4	6
188	Path Planning for Planetary Exploration Rovers and Its Evaluation based on Wheel Slip Dynamics. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	62
189	Improvement of the Odometry Accuracy of a Crawler Vehicle with Consideration of Slippage. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	33
190	Whole-body motion control for capturing a tumbling target by a free-floating space robot. , 2007, , .		24
191	Adaptive Kalman Filtering for GPS-based Mobile Robot Localization. , 2007, , .		48
192	Path following control for tracked vehicles based on slip-compensating odometry. , 2007, , .		46
193	Development and Control Method of Six-Wheel Robot with Rocker Structure. , 2007, , .		12
194	Assisted Teleoperated Navigation System Based on 3D Mapping. , 2007, , .		0
195	Terramechanics-based model for steering maneuver of planetary exploration rovers on loose soil. Journal of Field Robotics, 2007, 24, 233-250.	6.0	250
196	Development of a Transformable Mobile Robot with a Variable Wheel Diameter. Journal of Robotics and Mechatronics, 2007, 19, 252-257.	1.0	23
197	Touchdown of the Hayabusa Spacecraft at the Muses Sea on Itokawa. Science, 2006, 312, 1350-1353.	12.6	349
198	Path Following Control with Slip Compensation on Loose Soil for Exploration Rover. , 2006, , .		44

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199	Development of a Networked Robotic System for Disaster Mitigation, -Navigation System based on 3D Geometry Acquisition. , 2006, , .		11
200	On the Capture of Tumbling Satellite by a Space Robot. , 2006, , .		65
201	Impedance Control for Free-flying Space Robots -Basic Equations and Applications-. , 2006, , .		35
202	A Novel Distributed Telerobotic System for Construction Machines Based on Modules Synchronization. , 2006, , .		4
203	Stability and Adaptability Analysis for Legged Robots Intended for Asteroid Exploration. , 2006, , .		7
204	Utilization of Holonomic Distribution Control for Reactionless Path Planning. , 2006, , .		14
205	Impedance Control of Free-Flying Space Robot for Orbital Servicing. Journal of Robotics and Mechatronics, 2006, 18, 608-617.	1.0	8
206	Development of a Networked Robotic System for Disaster Mitigation “ Test Bed Experiments for Remote Operation over Rough Terrain and High Resolution 3D Geometry Acquisition. , 2006, , 415-425.		1
207	Development of a Networked Robotic System for Disaster Mitigation “ Test Bed Experiments for Remote Operation over Rough Terrain and High Resolution 3D Geometry Acquisition. , 2006, , 415-425.		0
208	Steering characteristics of an exploration rover on loose soil based on all-wheel dynamics model. , 2005, , .		16
209	An adaptive control of a space manipulator for vibration suppression. , 2005, , .		12
210	Dynamics, control and impedance matching for robotic capture of a non-cooperative satellite. Advanced Robotics, 2004, 18, 175-198.	1.8	120
211	Slip-based Traction Control of a Planetary Rover. , 2003, , 644-653.		16
212	Inertia Parameter Identification of a Free-Flying Space Robot.. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2002, 68, 2388-2394.	0.2	6
213	<title>Motion dynamics and control of a planetary rover with slip-based traction model</title>. , 2002, , .		26
214	Inertia Parameter Identification for a Free-Flying Space Robot. , 2002, , .		39
215	ETS-VII Flight Experiments For Space Robot Dynamics and Control. , 2001, , 209-218.		19
216	Control of a space manipulator for autonomous target capture - ETS-VII flight experiments and analysis. , 2000, , .		12

#	ARTICLE	IF	CITATIONS
217	Space Robot Dynamics and Control: To Orbit, From Orbit, and Future. , 2000, , 449-456.		22
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