

Jaesung Oh

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.

101
papers

1,284
citations

16
h-index

32
g-index

111
ext. papers

1,657
ext. citations

2.9
avg, IF

4.85
L-index

#	Paper	IF	Citations
101	Dynamic Humanoid Locomotion Over Rough Terrain With Streamlined Perception-Control Pipeline 2021 ,		1
100	Design of a Compact Embedded Hydraulic Power Unit for Bipedal Robots. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 3631-3638	4.2	2
99	Force Control of a Hydraulic Actuator With a Neural Network Inverse Model. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 2814-2821	4.2	7
98	Dynamic Nonprehensile Manipulation of a Moving Object Using a Batting Primitive. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3920	2.6	1
97	Energy Efficient Control of Onboard Hydraulic Power Unit for Hydraulic Bipedal Robots. <i>The Journal of Korea Robotics Society</i> , 2021 , 16, 86-93	0.3	
96	Legged Robot State Estimation With Dynamic Contact Event Information. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 6733-6740	4.2	6
95	Design and control of the rapid legged platform GAZELLE. <i>Mechatronics</i> , 2020 , 66, 102319	3	3
94	Development of a Lightweight and High-efficiency Compact Cycloidal Reducer for Legged Robots. <i>International Journal of Precision Engineering and Manufacturing</i> , 2020 , 21, 415-425	1.7	9
93	Online Delayed Reference Generation for a Humanoid Imitating Human Walking Motion. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 1-1	5.5	2
92	A Robust Walking Controller Based on Online Optimization of Ankle, Hip, and Stepping Strategies. <i>IEEE Transactions on Robotics</i> , 2019 , 35, 1367-1386	6.5	20
91	Hysteresis Modeling for Torque Control of an Elastomer Series Elastic Actuator. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019 , 24, 1316-1324	5.5	9
90	Real-time humanoid whole-body remote control framework for imitating human motion based on kinematic mapping and motion constraints. <i>Advanced Robotics</i> , 2019 , 33, 293-305	1.7	5
89	Humanoid whole-body remote-control framework with delayed reference generator for imitating human motion. <i>Mechatronics</i> , 2019 , 62, 102253	3	2
88	A Robust Balance-Control Framework for the Terrain-Blind Bipedal Walking of a Humanoid Robot on Unknown and Uneven Terrain. <i>Sensors</i> , 2019 , 19,	3.8	16
87	Motion Generation Interface of ROS to PODO Software Framework for Wheeled Humanoid Robot 2019 ,		3
86	Avoiding Obstacles during Push Recovery Using Real-Time Vision Feedback 2019 ,		2
85	Real-time continuous ZMP pattern generation of a humanoid robot using an analytic method based on capture point. <i>Advanced Robotics</i> , 2019 , 33, 33-48	1.7	6

84	A robust walking controller optimizing step position and step time that exploit advantages of footed robot. <i>Robotics and Autonomous Systems</i> , 2019 , 113, 10-22	3.5	8
83	History of HUBO: Korean Humanoid Robot 2019 , 117-129		
82	Mechanism Design Outline of Hubo 2019 , 615-635		2
81	Development of the Humanoid Disaster Response Platform DRC-HUBO+. <i>IEEE Transactions on Robotics</i> , 2018 , 34, 1-17	6.5	60
80	Robots for the PyeongChang 2018 Winter Olympic Games. <i>Science Robotics</i> , 2018 , 3,	18.6	2
79	Balance recovery through model predictive control based on capture point dynamics for biped walking robot. <i>Robotics and Autonomous Systems</i> , 2018 , 105, 1-10	3.5	29
78	Collision Detection and Safe Reaction Algorithm for Non-backdrivable Manipulator with Single Force/Torque Sensor. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2018 , 91, 403-412	2.9	14
77	Biped robot state estimation using compliant inverted pendulum model. <i>Robotics and Autonomous Systems</i> , 2018 , 108, 38-50	3.5	9
76	Constrained Whole Body Motion Planning in Task Configuration and Time. <i>International Journal of Precision Engineering and Manufacturing</i> , 2018 , 19, 1651-1658	1.7	3
75	Implementing Full-body Torque Control in Humanoid Robot with High Gear Ratio Using Pulse Width Modulation Voltage 2018 ,		3
74	Humanoid Robot COM Kinematics Estimation based on Compliant Inverted Pendulum Model and Robust State Estimator 2018 ,		1
73	Position/torque hybrid control of a rigid, high-gear ratio quadruped robot. <i>Advanced Robotics</i> , 2018 , 32, 969-983	1.7	5
72	Development of a Tele-Operated Rescue Robot for a Disaster Response. <i>International Journal of Humanoid Robotics</i> , 2018 , 15, 1850008	1.2	6
71	Analytic Inverse Kinematics Considering the Joint Constraints and Self-Collision for Redundant 7DOF Manipulator 2017 ,		5
70	Humanoid state estimation using a moving horizon estimator. <i>Advanced Robotics</i> , 2017 , 31, 695-705	1.7	5
69	Novel state estimation framework for humanoid robot. <i>Robotics and Autonomous Systems</i> , 2017 , 98, 258-275	3.75	11
68	History of HUBO, Korean Humanoid Robot 2017 , 1-13		
67	Mechanism Design Outline of Hubo 2017 , 1-21		

66	Inverse kinematics with strict nonholonomic constraints on mobile manipulator 2017 ,		1
65	Camera-laser fusion sensor system and environmental recognition for humanoids in disaster scenarios. <i>Journal of Mechanical Science and Technology</i> , 2017 , 31, 2997-3003	1.6	5
64	Robot System of DRC-HUBO+ and Control Strategy of Team KAIST in DARPA Robotics Challenge Finals. <i>Journal of Field Robotics</i> , 2017 , 34, 802-829	6.7	58
63	Biped walking stabilization based on foot placement control using capture point feedback 2017 ,		7
62	BLDC motor current control using filtered single DC link current based on adaptive extended Kalman filter 2017 ,		2
61	A New State Estimation Framework for Humanoids based on a Moving Horizon Estimator. <i>IFAC-PapersOnLine</i> , 2017 , 50, 3793-3799	0.7	
60	Humanoid Posture Selection for Reaching Motion and a Cooperative Balancing Controller. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2016 , 81, 301-316	2.9	12
59	Study on optimal velocity selection using velocity obstacle (OVVO) in dynamic and crowded environment. <i>Autonomous Robots</i> , 2016 , 40, 1459-1470	3	14
58	Backward Ladder Climbing Locomotion of Humanoid Robot with Gain Overriding Method on Position Control. <i>Journal of Field Robotics</i> , 2016 , 33, 687-705	6.7	13
57	Low-cost indoor positioning system using BLE (bluetooth low energy) based sensor fusion with constrained extended Kalman Filter 2016 ,		5
56	Walking-wheeling dual mode strategy for humanoid robot, DRC-HUBO+ 2016 ,		5
55	Bipedal walking pattern generation based on an extrapolated center of mass 2016 ,		1
54	Development of an optimal velocity selection method with velocity obstacle. <i>Journal of Mechanical Science and Technology</i> , 2015 , 29, 3475-3487	1.6	1
53	Biped Walking Pattern Generation Using an Analytic Method for a Unit Step With a Stationary Time Interval Between Steps. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 1091-1100	8.9	17
52	Active Suspension for a Rapid Mobile Robot Using Cartesian Computed Torque Control. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2015 , 79, 221-235	2.9	6
51	Robotic software system for the disaster circumstances: System of team KAIST in the DARPA Robotics Challenge Finals 2015 ,		10
50	A modified perturbation/correlation method for force-guided assembly. <i>Journal of Mechanical Science and Technology</i> , 2015 , 29, 5437-5446	1.6	6
49	Collision detection system for the practical use of the humanoid robot 2015 ,		5

48	Hopping system control with an approximated dynamics model and upper-body motion. <i>Journal of Mechanical Science and Technology</i> , 2015 , 29, 4891-4900	1.6	2
47	Control strategies for a humanoid robot to drive and then egress a utility vehicle for remote approach 2015 ,		5
46	Dynamics based motion optimization and operational space control with an experimental rescue robot, HUBO T-100 2015 ,		2
45	Motion planning for a rapid mobile manipulator using model-based ZMP stabilization. <i>Robotica</i> , 2014 , 32,	2.1	2
44	Improvement Trend of a Humanoid Robot Platform HUBO2+. <i>Journal of Institute of Control, Robotics and Systems</i> , 2014 , 20, 356-363	1	9
43	Development of the Cartesian arm exoskeleton system (CAES) using a 3-axis force/torque sensor. <i>International Journal of Control, Automation and Systems</i> , 2013 , 11, 976-983	2.9	10
42	Posture Stabilization Strategy for a Trotting Point-foot Quadruped Robot. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2013 , 72, 325-341	2.9	10
41	Inverse Kinematic Control of Humanoids under Joint Constraints. <i>International Journal of Advanced Robotic Systems</i> , 2013 , 10, 74	1.4	20
40	Humanoid throwing: Design of collision-free trajectories with sparse reachable maps 2012 ,		11
39	DYNAMIC BALANCE OF A HOPPING HUMANOID ROBOT USING A LINEARIZATION METHOD. <i>International Journal of Humanoid Robotics</i> , 2012 , 09, 1250020	1.2	3
38	Development of a Rapid Mobile Robot with a Multi-Degree-of-Freedom Inverted Pendulum Using the Model-Based Zero-Moment Point Stabilization Method. <i>Advanced Robotics</i> , 2012 , 26, 515-535	1.7	12
37	Development of Humanoid Robots in HUBO Laboratory, KAIST. <i>Journal of the Robotics Society of Japan</i> , 2012 , 30, 367-371	0.1	3
36	Online Balance Controllers for a Hopping and Running Humanoid Robot. <i>Advanced Robotics</i> , 2011 , 25, 1209-1225	1.7	29
35	Adaptive walking pattern generation and balance control of the passenger-carrying biped robot, HUBO FX-1, for variable passenger weights. <i>Autonomous Robots</i> , 2011 , 30, 427-443	3	13
34	On the Design and Development of a Quadruped Robot Platform. <i>Advanced Robotics</i> , 2010 , 24, 277-298	1.7	9
33	Stabilization of a rapid four-wheeled mobile platform using the ZMP stabilization method 2010 ,		6
32	EXPERIMENTAL REALIZATION OF DYNAMIC STAIR CLIMBING AND DESCENDING OF BIPED HUMANOID ROBOT, HUBO. <i>International Journal of Humanoid Robotics</i> , 2009 , 06, 205-240	1.2	4
31	Realization of Dynamic Stair Climbing for Biped Humanoid Robot Using Force/Torque Sensors. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2009 , 56, 389-423	2.9	14

30	Online Walking Pattern Generation and Its Application to a Biped Humanoid Robot [KHR-3 (HUBO)]. <i>Advanced Robotics</i> , 2008 , 22, 159-190	1.7	38
29	Adjustment of Home Posture of Biped Humanoid Robot Using Sensory Feedback Control. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2008 , 51, 421-438	2.9	7
28	Control hardware integration of a biped humanoid robot with an android head. <i>Robotics and Autonomous Systems</i> , 2008 , 56, 95-103	3.5	19
27	Walking Control Algorithm of Biped Humanoid Robot on Uneven and Inclined Floor. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2007 , 48, 457-484	2.9	140
26	Stretch-legged walking in sagittal plane 2007 ,		1
25	Mechanical design of the humanoid robot platform, HUBO. <i>Advanced Robotics</i> , 2007 , 21, 1305-1322	1.7	108
24	Experimental realization of dynamic walking of the biped humanoid robot KHR-2 using zero moment point feedback and inertial measurement. <i>Advanced Robotics</i> , 2006 , 20, 707-736	1.7	82
23	Design of Android type Humanoid Robot Albert HUBO 2006 ,		96
22	Online Biped Walking Pattern Generation for Humanoid Robot KHR-3(KAIST Humanoid Robot - 3: HUBO) 2006 ,		15
21	DEVELOPMENT OF HUMANOID ROBOT PLATFORM KHR-2 (KAIST HUMANOID ROBOT 2). <i>International Journal of Humanoid Robotics</i> , 2005 , 02, 519-536	1.2	30
20	Realization of dynamic walking for the humanoid robot platform KHR-1. <i>Advanced Robotics</i> , 2004 , 18, 749-768	1.7	36
19	Walking control of the humanoid platform KHR-1 based on torque feedback control 2004 ,		5
18	Design of a stable gain scheduling controller for optical disc players. <i>IEEE Transactions on Consumer Electronics</i> , 2004 , 50, 188-191	4.8	1
17	Globally asymptotically stable tracking control for a trailer system. <i>Journal of Field Robotics</i> , 2002 , 19, 199-205		8
16	Design and Analysis of Rotary MR Damper Using Permanent Magnet. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002 , 35, 823-827		3
15	Walking and Control of Autonomous Biped Robot. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2001 , 34, 173-177		
14	Nonlinear tracking control of trailer systems using the Lyapunov direct method. <i>Journal of Field Robotics</i> , 1999 , 16, 1-8		8
13	Discrete-time quasi-sliding mode tracking control of uncertain systems with long sampling interval. <i>International Journal of Systems Science</i> , 1998 , 29, 899-906	2.3	5

12	Hybrid Learning of Mapping and its Jacobian in Multilayer Neural Networks. <i>Neural Computation</i> , 1997 , 9, 937-958	2.9	12
11	An aperiodic Z type spinning gait planning method for a quadruped walking robot. <i>Autonomous Robots</i> , 1995 , 2, 163-173	3	1
10	An aperiodic straight motion planning method for a quadruped walking robot. <i>Autonomous Robots</i> , 1995 , 2, 29-41	3	1
9	Development of a multi-agent system for robot soccer game		3
8	Globally asymptotically stable tracking control of mobile robots		3
7	System Design and Dynamic Walking of Humanoid Robot KHR-2		7
6	Mechanical design of humanoid robot platform KHR-3 (KAIST humanoid robot - 3: HUBO)		52
5	Development of humanoid robot platform KHR-2 (KAIST humanoid robot-2)		3
4	Experiments of vision guided walking of humanoid robot, KHR-2		1
3	Development of an above knee prosthesis using MR damper and leg simulator		6
2	Disturbance estimation using sliding mode for discrete Kalman filter		1
1	Experiments of backward tracking control for trailer system		3