

Jaeheung Park

List of Publications by Year in descending order

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docs citations

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times ranked

1143
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward Reactive Walking: Control of Biped Robots Exploiting an Event-Based FSM. IEEE Transactions on Robotics, 2022, 38, 683-698.	10.3	7
2	Transferable Collision Detection Learning for Collaborative Manipulator Using Versatile Modularized Neural Network. IEEE Transactions on Robotics, 2022, 38, 2426-2445.	10.3	10
3	Advanced Compliant Anti-Gravity Robot System for Lumbar Stabilization Exercise Using Series Elastic Actuator. IEEE Journal of Translational Engineering in Health and Medicine, 2022, 10, 1-11.	3.7	1
4	Contact State Estimation for Peg-in-Hole Assembly Using Gaussian Mixture Model. IEEE Robotics and Automation Letters, 2022, 7, 3349-3356.	5.1	8
5	Optimization of Pelvic Rotation Walking Pattern Considering Future States Using Model Predictive Control to Increase the Step Length. IEEE Access, 2022, 10, 44471-44482.	4.2	0
6	Calibration of Mobile Robot with Single Wheel Powered Caster. The Journal of Korea Robotics Society, 2022, 17, 183-190.	0.4	0
7	Robotic furniture assembly: task abstraction, motion planning, and control. Intelligent Service Robotics, 2022, 15, 441-457.	2.6	4
8	Weighted hierarchical quadratic programming: assigning individual joint weights for each task priority. Intelligent Service Robotics, 2022, 15, 475-486.	2.6	1
9	Model Predictive Control Method for Autonomous Vehicles Using Time-Varying and Non-Uniformly Spaced Horizon. IEEE Access, 2021, 9, 86475-86487.	4.2	7
10	A Whole-Body Control Framework Based on the Operational Space Formulation Under Inequality Constraints via Task-Oriented Optimization. IEEE Access, 2021, 9, 39813-39826.	4.2	12
11	Accurate Path Tracking by Adjusting Look-Ahead Point in Pure Pursuit Method. International Journal of Automotive Technology, 2021, 22, 119-129.	1.4	36
12	The Operational Space Formulation on Humanoids Considering Joint Stiffness and Bandwidth Limit. IEEE Access, 2021, 9, 121883-121893.	4.2	4
13	Fast and Safe Contact Establishment Strategy for Biped Walking Robot. The Journal of Korea Robotics Society, 2021, 16, 147-154.	0.4	0
14	Design of JET Humanoid Robot with Compliant Modular Actuators for Industrial and Service Applications. Applied Sciences (Switzerland), 2021, 11, 6152.	2.5	6
15	Development of Harmonic Reducing Transmission for Legged Robots. , 2021, , .		1
16	Regularized Hierarchical Quadratic Program for Real-Time Whole-Body Motion Generation. IEEE/ASME Transactions on Mechatronics, 2021, 26, 2115-2126.	5.8	5
17	Search trajectory with twisting motion for dual peg-in-hole assembly. Intelligent Service Robotics, 2021, 14, 597.	2.6	3
18	A Comparative Analysis of Path Planning and Tracking Performance According to the Consideration of Vehicle's Constraints in Automated Parking Situations. The Journal of Korea Robotics Society, 2021, 16, 250-259.	0.4	1

#	ARTICLE	IF	CITATIONS
19	Reactive Self-Collision Avoidance for a Differentially Driven Mobile Manipulator. Sensors, 2021, 21, 890.	3.8	9
20	Whole-body walking pattern using pelvis-rotation for long stride and arm swing for yaw angular momentum compensation. , 2021, , .		5
21	Computationally Efficient HQP-based Whole-body Control Exploiting the Operational-space Formulation. , 2021, , .		6
22	Elastomeric Continuously Variable Transmission Combined With Twisted String Actuator. IEEE Robotics and Automation Letters, 2020, 5, 5477-5484.	5.1	11
23	Contact States Estimation Algorithm Using Fuzzy Logic in Peg-in-hole Assembly. , 2020, , .		5
24	Rigid Grasp Candidate Generation for Assembly Tasks. , 2020, , .		6
25	Compliant Peg-in-Hole Assembly Using Partial Spiral Force Trajectory With Tilted Peg Posture. IEEE Robotics and Automation Letters, 2020, 5, 4447-4454.	5.1	23
26	A New Lizard-Inspired Robot With S-Shaped Lateral Body Motions. IEEE/ASME Transactions on Mechatronics, 2020, 25, 130-141.	5.8	3
27	A Comparative Study of Parking Path Following Methods for Autonomous Parking System. The Journal of Korea Robotics Society, 2020, 15, 147-159.	0.4	5
28	Contact-Consistent Disturbance Observer for Floating-Base Robots. Springer Proceedings in Advanced Robotics, 2020, , 475-484.	1.3	1
29	Walking Pattern Generation using MPC with minimization of COM Velocity Fluctuation. , 2020, , .		3
30	Whole-body Control of Non-holonomic Mobile Manipulator Based on Hierarchical Quadratic Programming and Continuous Task Transition. , 2019, , .		9
31	Parking Line Based SLAM Approach Using AVM/LiDAR Sensor Fusion for Rapid and Accurate Loop Closing and Parking Space Detection. Sensors, 2019, 19, 4811.	3.8	12
32	Continuous Task Transition Approach for Robot Controller Based on Hierarchical Quadratic Programming. IEEE Robotics and Automation Letters, 2019, 4, 1603-1610.	5.1	28
33	Grasping Force Estimation by sEMG Signals and Arm Posture: Tensor Decomposition Approach. Journal of Bionic Engineering, 2019, 16, 455-467.	5.0	19
34	System Design of Humanoid Robot DYROS-JET. , 2019, , .		6
35	Three-Dimensional Visualization System with Spatial Information for Navigation of Tele-Operated Robots. Sensors, 2019, 19, 746.	3.8	3
36	Operational Space Control Framework for Torque Controlled Humanoid Robots with Joint Elasticity. , 2019, , .		5

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37	Effect of Heel Area on Utilized Coefficient of Friction During High-Heeled Walking. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 703-709.	0.6	1
38	The Hierarchical Operational Space Formulation: Stability Analysis for the Regulation Case. <i>IEEE Robotics and Automation Letters</i> , 2018, 3, 1120-1127.	5.1	33
39	Dance motion generation by recombination of body parts from motion source. <i>Intelligent Service Robotics</i> , 2018, 11, 139-148.	2.6	2
40	Reactive Bipedal Walking Method for Torque Controlled Robot. , 2018, , .		5
41	Low stiffness design and hysteresis compensation torque control of SEA for active exercise rehabilitation robots. <i>Autonomous Robots</i> , 2017, 41, 1221-1242.	4.8	19
42	Compliance-Based Robotic Peg-in-Hole Assembly Strategy Without Force Feedback. <i>IEEE Transactions on Industrial Electronics</i> , 2017, 64, 6299-6309.	7.9	122
43	Terrain edge detection for biped walking robots using active sensing with vCoP-position hybrid control. <i>Robotics and Autonomous Systems</i> , 2017, 96, 41-57.	5.1	9
44	Team SNU's Control Strategies for Enhancing a Robot's Capability: Lessons from the 2015 DARPA Robotics Challenge Finals. <i>Journal of Field Robotics</i> , 2017, 34, 359-380.	6.0	16
45	A rehabilitation exercise robot for treating low back pain. , 2017, , .		4
46	Analysis of position tracking in torque control of humanoid robots considering joint elasticity and time delay. , 2017, , .		9
47	Desired orientation RRT (DO-RRT) for autonomous vehicle in narrow cluttered spaces. , 2016, , .		13
48	Balancing of humanoid robot using contact force/moment control by task-oriented whole body control framework. <i>Autonomous Robots</i> , 2016, 40, 457-472.	4.8	49
49	Explicit formulation of multibody dynamics based on principle of dynamical balance and its parallelization. <i>Multibody System Dynamics</i> , 2016, 37, 175-193.	2.7	1
50	Mobility and Manipulation. <i>Springer Handbooks</i> , 2016, , 1007-1036.	0.6	8
51	Robot Hand Synergy Mapping Using Multi-factor Model and EMG Signal. <i>Springer Tracts in Advanced Robotics</i> , 2016, , 671-683.	0.4	12
52	Real-Time Force Control of Biped Robot to Generate High-Speed Horizontal Motion of Center of Mass. <i>The Journal of Korea Robotics Society</i> , 2016, 11, 183-192.	0.4	1
53	Aesthetic design and development of humanoid legged robot. , 2014, , .		11
54	An active sensing strategy for contact location without tactile sensors using robot geometry and kinematics. <i>Autonomous Robots</i> , 2014, 36, 109-121.	4.8	11

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55	Music similarity-based approach to generating dance motion sequence. Multimedia Tools and Applications, 2013, 62, 895-912.	3.9	34
56	Compliant Joint Actuator With Dual Spiral Springs. IEEE/ASME Transactions on Mechatronics, 2013, 18, 1839-1844.	5.8	27
57	Intuitive peg-in-hole assembly strategy with a compliant manipulator. , 2013, , .		19
58	Robot Control near Singularity and Joint Limit Using a Continuous Task Transition Algorithm. International Journal of Advanced Robotic Systems, 2013, 10, 346.	2.1	34
59	Intermediate Desired Value Approach for Task Transition of Robots in Kinematic Control. IEEE Transactions on Robotics, 2012, 28, 1260-1277.	10.3	69
60	The relationship between controlled joint torque and end-effector force in underactuated robotic systems. Robotica, 2011, 29, 581-584.	1.9	11
61	Compliant Control of Multicontact and Center-of-Mass Behaviors in Humanoid Robots. IEEE Transactions on Robotics, 2010, 26, 483-501.	10.3	280
62	Synthesis of natural arm swing motion in human bipedal walking. Journal of Biomechanics, 2008, 41, 1417-1426.	2.1	98
63	Torque-position transformer for task control of position controlled robots. , 2008, , .		23
64	Robot multiple contact control. Robotica, 2008, 26, 667-677.	1.9	41
65	Probabilistic Estimation of Whole Body Contacts for Multi-Contact Robot Control. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .	0.0	26
66	Multi-Link Multi-Contact Force Control for Manipulators. , 0, , .		13
67	Contact consistent control framework for humanoid robots. , 0, , .		41