Dongjun Lee

List of Publications by Year
in descending order

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94	3,011	331642	289230
papers	citations	21 h-index	40 g-index

94	94	94	2641
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Rugged and breathable forms of stretchable electronics with adherent composite substrates for transcutaneous monitoring. Nature Communications, 2014, 5, 4779.	12.8	309
2	Stable Flocking of Multiple Inertial Agents on Balanced Graphs. IEEE Transactions on Automatic Control, 2007, 52, 1469-1475.	5.7	240
3	Passive-Set-Position-Modulation Framework for Interactive Robotic Systems. IEEE Transactions on Robotics, 2010, 26, 354-369.	10.3	175
4	Semiautonomous Haptic Teleoperation Control Architecture of Multiple Unmanned Aerial Vehicles. IEEE/ASME Transactions on Mechatronics, 2013, 18, 1334-1345.	5.8	154
5	Past, Present, and Future of Aerial Robotic Manipulators. IEEE Transactions on Robotics, 2022, 38, 626-645.	10.3	145
6	ODAR: Aerial Manipulation Platform Enabling Omnidirectional Wrench Generation. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1907-1918.	5.8	118
7	Passive Decomposition and Control of Nonholonomic Mechanical Systems. IEEE Transactions on Robotics, 2010, 26, 978-992.	10.3	113
8	Passivity-based adaptive backstepping control of quadrotor-type UAVs. Robotics and Autonomous Systems, 2014, 62, 1305-1315.	5.1	97
9	Passive bilateral control and tool dynamics rendering for nonlinear mechanical teleoperators. , 2005, 21, 936-951.		87
10	Experimental Comparison Study of Control Architectures for Bilateral Teleoperators. IEEE Transactions on Robotics, 2009, 25, 1304-1318.	10.3	84
11	Dynamics and control of quadrotor with robotic manipulator. , 2014, , .		82
12	Telerobotics. Springer Handbooks, 2016, , 1085-1108.	0.6	80
13	Passive bilateral feedforward control of linear dynamically similar teleoperated manipulators. IEEE Transactions on Automation Science and Engineering, 2003, 19, 443-456.	2.3	79
14	Design, modeling and control of omni-directional aerial robot. , 2016, , .		74
15	Stretchable Skinâ€Like Cooling/Heating Device for Reconstruction of Artificial Thermal Sensation in Virtual Reality. Advanced Functional Materials, 2020, 30, 1909171.	14.9	71
16	A Novel Robotic Platform for Aerial Manipulation Using Quadrotors as Rotating Thrust Generators. IEEE Transactions on Robotics, 2018, 34, 353-369.	10.3	70
17	Highly stretchable and oxidation-resistive Cu nanowire heater for replication of the feeling of heat in a virtual world. Journal of Materials Chemistry A, 2020, 8, 8281-8291.	10.3	55
18	Distributed backstepping control of multiple thrust-propelled vehicles on a balanced graph. Automatica, 2012, 48, 2971-2977.	5.0	54

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19	Haptic teleoperation of multiple unmanned aerial vehicles over the internet. , 2011, , .		50
20	Multi-rotor drone tutorial: systems, mechanics, control and state estimation. Intelligent Service Robotics, 2017, 10, 79-93.	2.6	47
21	Mechanics, control and internal dynamics of quadrotor tool operation. Automatica, 2015, 61, 289-301.	5.0	46
22	Wearable Finger Tracking and Cutaneous Haptic Interface with Soft Sensors for Multi-Fingered Virtual Manipulation. IEEE/ASME Transactions on Mechatronics, 2019, 24, 67-77.	5.8	40
23	Aerial tool operation system using quadrotors as Rotating Thrust Generators. , 2015, , .		39
24	Passive Decomposition Approach to Formation and Maneuver Control of Multiple Rigid Bodies. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2007, 129, 662-677.	1.6	37
25	LASDRA: Large-Size Aerial Skeleton System with Distributed Rotor Actuation. , 2018, , .		36
26	PASSIVE BILATERAL CONTROL OF TELEOPERATORS UNDER CONSTANT TIME-DELAY. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 109-114.	0.4	33
27	Hierarchical cooperative control framework of multiple quadrotor-manipulator systems. , 2015, , .		30
28	Consensus-Based Peer-to-Peer Control Architecture for Multiuser Haptic Interaction Over the Internet. IEEE Transactions on Robotics, 2013, 29, 417-431.	10.3	25
29	Feedback r-passivity of Lagrangian systems for mobile robot teleoperation. , 2011, , .		24
30	Semi-Autonomous Teleoperation of Multiple Wheeled Mobile Robots Over the Internet. , 2008, , .		23
31	Bilateral Teleoperation of Mobile Robot over Delayed Communication Network: Implementation.. , 2006, , .		22
32	Visual-inertial hand motion tracking with robustness against occlusion, interference, and contact. Science Robotics, 2021, 6, eabe1315.	17.6	22
33	Hybrid force/motion control and internal dynamics of quadrotors for tool operation. , 2013, , .		21
34	Passive Decomposition of Mechanical Systems With Coordination Requirement. IEEE Transactions on Automatic Control, 2013, 58, 230-235.	5.7	20
35	The Tele-MAGMaS: An Aerial-Ground Comanipulator System. IEEE Robotics and Automation Magazine, 2018, 25, 66-75.	2.0	20
36	On utilizing pseudo-haptics for cutaneous fingertip haptic device. , 2014, , .		18

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37	Passive Position Feedback over Packet-Switching Communication Network with Varying-Delay and Packet-Loss. , 2008, , .		17
38	Backstepping Control of Quadrotor-Type UAVs and Its Application to Teleoperation over the Internet. Advances in Intelligent Systems and Computing, 2013, , 217-225.	0.6	16
39	Extension of colgate's passivity condition for variable-rate haptics. , 2009, , .		15
40	First-person view semi-autonomous teleoperation of cooperative wheeled mobile robots with visuo-haptic feedback. International Journal of Robotics Research, 2017, 36, 840-860.	8.5	15
41	Haptic rendering and interactive simulation using passive midpoint integration. International Journal of Robotics Research, 2017, 36, 1341-1362.	8.5	15
42	Pose and Posture Estimation of Aerial Skeleton Systems for Outdoor Flying. , 2019, , .		15
43	On Passive Non-Iterative Variable-Step Numerical Integration of Mechanical Systems for Haptic Rendering. , 2008, , .		15
44	Passive Configuration Decomposition and Passivity-Based Control of Nonholonomic Mechanical Systems. IEEE Transactions on Robotics, 2017, 33, 281-297.	10.3	14
45	Modeling and velocity-field control of autonomous excavator with main control valve. Automatica, 2019, 104, 67-81.	5.0	14
46	Passive decomposition of multiple mechanical systems under coordination requirements. , 2004, , .		13
47	Mechanics and Control of Quadrotors for Tool Operation. , 2012, , .		13
48	Haptic tele-driving of a wheeled mobile robot over the Internet: A PSPM approach. , 2010, , .		12
49	Precision Motion Control of Robotized Industrial Hydraulic Excavators via Data-Driven Model Inversion. IEEE Robotics and Automation Letters, 2022, 7, 1912-1919.	5.1	12
50	Improving transparency of virtual coupling for haptic interaction with human force observer. Robotica, 2017, 35, 354-369.	1.9	11
51	Teleoperation of a platoon of distributed wheeled mobile robots with predictive display. Autonomous Robots, 2018, 42, 1819-1836.	4.8	11
52	Wearable Haptic Device for Stiffness Rendering of Virtual Objects in Augmented Reality. Applied Sciences (Switzerland), 2021, 11, 6932.	2.5	11
53	Expert-Emulating Excavation Trajectory Planning for Autonomous Robotic Industrial Excavator. , 2020, , .		11
54	Passive haptic rendering and control of Lagrangian virtual proxy. , 2012, , .		10

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55	Passive configuration decomposition and practical stabilization of nonholonomic mechanical systems with symmetry. , 2010, , .		8
56	Hybrid virtual-proxy based control framework for passive bilateral teleoperation over the internet. , 2011, , .		8
57	Passive set-position modulation approach for haptics with slow, variable, and asynchronous update. , 2009, , .		7
58	Vision-based teleoperation of unmanned aerial and ground vehicles. , 2013, , .		7
59	Hybrid PD-Based Control Framework for Passive Bilateral Teleoperation over the Internet. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1064-1069.	0.4	6
60	Autonomous dynamic driving control of wheeled mobile robots. , 2014, , .		6
61	Passivity-based control of manipulator-stage systems on vertical flexible beam. , 2017, , .		6
62	An Experimental Comparison Study for Bilateral Internet-Based Teleoperation. , 2006, , .		6
63	Sim-to-Real Transfer of Bolting Tasks with Tight Tolerance. , 2020, , .		6
64	On the passivity of mechanical integrators in haptic rendering. , 2017, , .		5
65	Distributed Rotor-Based Vibration Suppression for Flexible Object Transport and Manipulation. , 2020, , .		5
66	A Distributed Two-Layer Framework for Teleoperated Platooning of Fixed-Wing UAVs via Decomposition and Backstepping. IEEE Robotics and Automation Letters, 2021, 6, 3655-3662.	5.1	5
67	Nonholonomic passive decomposition: Weak decomposability, controllability and control design. , 2010, , .		4
68	Cooperative grasping control of multiple mobile manipulators with obstacle avoidance. , 2013, , .		4
69	Robust consensus of linear systems on directed graph with nonâ€uniform delay. IET Control Theory and Applications, 2016, 10, 2574-2579.	2.1	4
70	Modeling and Control of Multiple Aerial-Ground Manipulator System (MAGMaS) with Load Flexibility. , 2018, , .		4
71	Toward Transparent Virtual Coupling for Haptic Interaction during Contact Tasks. The Journal of Korea Robotics Society, 2013, 8, 186-196.	0.4	4
72	Distributed Backstepping Control of Multiple Thrust-Propelled Vehicles on Balanced Graph*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 8872-8877.	0.4	3

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73	Measuring an operator's maneuverability performance in the haptic teleoperation of multiple robots. , 2011, , .		3
74	Preliminary results on passive velocity field control of quadrotors. , 2012, , .		3
75	Whole-body multi-modal semi-autonomous teleoperation of mobile manipulator systems. , 2015, , .		3
76	Wearable 3-DOF cutaneous haptic device with integrated IMU-based finger tracking. , 2016, , .		3
77	Camera-GPS-IMU sensor fusion for autonomous flying. , 2016, , .		3
78	A Parallelized Iterative Algorithm for Real-Time Simulation of Long Flexible Cable Manipulation. , 2021, , .		3
79	An evaluation of haptic cues on the tele-operator's perceptual awareness of multiple UAVs' environments. , 2011, , .		2
80	Preliminary control design on spherically-connected multiple-quadrotor manipulator system. , 2015, , .		2
81	Haptic tele-driving of wheeled mobile robot over the internet via PSPM approach: theory and experiment. Advanced Robotics, 2018, 32, 683-696.	1.8	2
82	Section focused on new horizons in telerobotics for real-life applications. Advanced Robotics, 2018, 32, 681-682.	1.8	2
83	Passive Model Reduction and Switching for Fast Soft Object Simulation with Intermittent Contacts. , 2019, , .		2
84	Semi-autonomous haptic teleoperation of multiple omni-directional mobile robots. , 2013, , .		1
85	Experimental evaluation of passivity-based control of manipulator-stage system on flexible beam. , 2017, , .		1
86	User Interface Design for Semi-Autonomous Teleoperation of Manipulator-Stage System on Flexible Beam. , 2018, , .		1
87	Development of Downsized LASDRA with 2-DoF Joint Locking Device. , 2021, , .		1
88	Real-Time Physically-Accurate Simulation of Robotic Snap Connection Process. , 2021, , .		1
89	Erratum to â€œPassive Decomposition and Control of Nonholomic Mechanical Systemsâ€• IEEE Transactions on Robotics, 2011, 27, 184-184.	10.3	0
90	Teleoperation control of formation among multiple under-actuated quadrotor UAVs. , 2013, , .		0

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91	Coordinated rotation control of multiple rigid bodies in SO(3). , 2013, , .		0
92	Preliminary results on quadrotor manipulation control. , 2013, , .		0
93	Optimal Estimation and Feedforward Control of Strip-Longitudinal Hardness for Thickness Hunting Suppression of Tandem Cold Mill Process. IFAC-PapersOnLine, 2020, 53, 11988-11995.	0.9	0
94	Robust Motion Control of Robotic Systems with Environmental Interaction via Data-Driven Inversion of CPG. , 2020, , .		0