

Dongjun Lee

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.

78
papers

1,980
citations

24
h-index

43
g-index

94
ext. papers

2,481
ext. citations

5.2
avg, IF

5.35
L-index

#	Paper	IF	Citations
78	Precision Motion Control of Robotized Industrial Hydraulic Excavators via Data-Driven Model Inversion. <i>IEEE Robotics and Automation Letters</i> , 2022 , 7, 1912-1919	4.2	0
77	. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 3655-3662	4.2	1
76	Past, Present, and Future of Aerial Robotic Manipulators. <i>IEEE Transactions on Robotics</i> , 2021 , 1-20	6.5	24
75	Wearable Haptic Device for Stiffness Rendering of Virtual Objects in Augmented Reality. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6932	2.6	5
74	Visual-inertial hand motion tracking with robustness against occlusion, interference, and contact. <i>Science Robotics</i> , 2021 , 6, eabe1315	18.6	3
73	Highly stretchable and oxidation-resistive Cu nanowire heater for replication of the feeling of heat in a virtual world. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8281-8291	13	30
72	Stretchable Skin-Like Cooling/Heating Device for Reconstruction of Artificial Thermal Sensation in Virtual Reality. <i>Advanced Functional Materials</i> , 2020 , 30, 1909171	15.6	31
71	Optimal Estimation and Feedforward Control of Strip-Longitudinal Hardness for Thickness Hunting Suppression of Tandem Cold Mill Process. <i>IFAC-PapersOnLine</i> , 2020 , 53, 11988-11995	0.7	
70	Expert-Emulating Excavation Trajectory Planning for Autonomous Robotic Industrial Excavator 2020 ,		5
69	Distributed Rotor-Based Vibration Suppression for Flexible Object Transport and Manipulation 2020 ,		3
68	Pose and Posture Estimation of Aerial Skeleton Systems for Outdoor Flying 2019 ,		8
67	Modeling and velocity-field control of autonomous excavator with main control valve. <i>Automatica</i> , 2019 , 104, 67-81	5.7	10
66	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019 , 24, 67-77	5.5	24
65	A Novel Robotic Platform for Aerial Manipulation Using Quadrotors as Rotating Thrust Generators. <i>IEEE Transactions on Robotics</i> , 2018 , 34, 353-369	6.5	44
64	Teleoperation of a platoon of distributed wheeled mobile robots with predictive display. <i>Autonomous Robots</i> , 2018 , 42, 1819-1836	3	5
63	Haptic tele-driving of wheeled mobile robot over the internet via PSPM approach: theory and experiment. <i>Advanced Robotics</i> , 2018 , 32, 683-696	1.7	1
62	LASDRA: Large-Size Aerial Skeleton System with Distributed Rotor Actuation 2018 ,		22

61	2018,		2
60	The Tele-MAGMaS: An Aerial-Ground Comanipulator System. <i>IEEE Robotics and Automation Magazine</i> , 2018 , 25, 66-75	3-4	7
59	Section focused on new horizons in telerobotics for real-life applications. <i>Advanced Robotics</i> , 2018 , 32, 681-682	1.7	2
58	User Interface Design for Semi-Autonomous Teleoperation of Manipulator-Stage System on Flexible Beam 2018,		1
57	ODAR: Aerial Manipulation Platform Enabling Omnidirectional Wrench Generation. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018 , 23, 1907-1918	5-5	54
56	Improving transparency of virtual coupling for haptic interaction with human force observer. <i>Robotica</i> , 2017 , 35, 354-369	2.1	5
55	First-person view semi-autonomous teleoperation of cooperative wheeled mobile robots with visuo-haptic feedback. <i>International Journal of Robotics Research</i> , 2017 , 36, 840-860	5-7	12
54	Multi-rotor drone tutorial: systems, mechanics, control and state estimation. <i>Intelligent Service Robotics</i> , 2017 , 10, 79-93	2.6	30
53	Passive Configuration Decomposition and Passivity-Based Control of Nonholonomic Mechanical Systems. <i>IEEE Transactions on Robotics</i> , 2017 , 33, 281-297	6.5	10
52	Haptic rendering and interactive simulation using passive midpoint integration. <i>International Journal of Robotics Research</i> , 2017 , 36, 1341-1362	5-7	6
51	Passivity-based control of manipulator-stage systems on vertical flexible beam 2017,		2
50	On the passivity of mechanical integrators in haptic rendering 2017,		2
49	Robust consensus of linear systems on directed graph with non-uniform delay. <i>IET Control Theory and Applications</i> , 2016 , 10, 2574-2579	2.5	3
48	Wearable 3-DOF cutaneous haptic device with integrated IMU-based finger tracking 2016,		3
47	2016,		56
46	Telerobotics 2016, 1085-1108		46
45	Mechanics, control and internal dynamics of quadrotor tool operation. <i>Automatica</i> , 2015 , 61, 289-301	5-7	37
44	2015,		21

43	Aerial tool operation system using quadrotors as Rotating Thrust Generators 2015 ,		29
42	2014 ,		61
41	Rugged and breathable forms of stretchable electronics with adherent composite substrates for transcutaneous monitoring. <i>Nature Communications</i> , 2014 , 5, 4779	17.4	245
40	2014 ,		12
39	Autonomous dynamic driving control of wheeled mobile robots 2014 ,		3
38	Passivity-based adaptive backstepping control of quadrotor-type UAVs. <i>Robotics and Autonomous Systems</i> , 2014 , 62, 1305-1315	3.5	66
37	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2013 , 18, 1334-1345	5.5	126
36	. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 230-235	5.9	14
35	. <i>IEEE Transactions on Robotics</i> , 2013 , 29, 417-431	6.5	21
34	Vision-based teleoperation of unmanned aerial and ground vehicles 2013 ,		5
33	Hybrid force/motion control and internal dynamics of quadrotors for tool operation 2013 ,		13
32	Toward Transparent Virtual Coupling for Haptic Interaction during Contact Tasks. <i>The Journal of Korea Robotics Society</i> , 2013 , 8, 186-196	0.3	3
31	Backstepping Control of Quadrotor-Type UAVs and Its Application to Teleoperation over the Internet. <i>Advances in Intelligent Systems and Computing</i> , 2013 , 217-225	0.4	10
30	Distributed backstepping control of multiple thrust-propelled vehicles on a balanced graph. <i>Automatica</i> , 2012 , 48, 2971-2977	5.7	41
29	Preliminary results on passive velocity field control of quadrotors 2012 ,		2
28	2012 ,		6
27	Mechanics and Control of Quadrotors for Tool Operation 2012 ,		12
26	Erratum to Passive Decomposition and Control of Nonholonomic Mechanical Systems \square <i>IEEE Transactions on Robotics</i> , 2011 , 27, 184-184	6.5	

25	Distributed Backstepping Control of Multiple Thrust-Propelled Vehicles on Balanced Graph*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 8872-8877		2
24	Hybrid PD-Based Control Framework for Passive Bilateral Teleoperation over the Internet. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 1064-1069		2
23	Feedback r-passivity of Lagrangian systems for mobile robot teleoperation 2011 ,		22
22	Measuring an operator's maneuverability performance in the haptic teleoperation of multiple robots 2011 ,		1
21	Hybrid virtual-proxy based control framework for passive bilateral teleoperation over the internet 2011 ,		6
20	2011 ,		35
19	Haptic tele-driving of a wheeled mobile robot over the Internet: A PSPM approach 2010 ,		11
18	Passive configuration decomposition and practical stabilization of nonholonomic mechanical systems with symmetry 2010 ,		7
17	2010 ,		4
16	. <i>IEEE Transactions on Robotics</i> , 2010 , 26, 354-369	6.5	137
15	. <i>IEEE Transactions on Robotics</i> , 2010 , 26, 978-992	6.5	77
14	Extension of colgate's passivity condition for variable-rate haptics 2009 ,		9
13	Experimental Comparison Study of Control Architectures for Bilateral Teleoperators. <i>IEEE Transactions on Robotics</i> , 2009 , 25, 1304-1318	6.5	59
12	Passive set-position modulation approach for haptics with slow, variable, and asynchronous update 2009 ,		6
11	2008 ,		11
10	Semi-Autonomous Teleoperation of Multiple Wheeled Mobile Robots Over the Internet 2008 ,		21
9	On Passive Non-Iterative Variable-Step Numerical Integration of Mechanical Systems for Haptic Rendering 2008 ,		7
8	Stable Flocking of Multiple Inertial Agents on Balanced Graphs. <i>IEEE Transactions on Automatic Control</i> , 2007 , 52, 1469-1475	5.9	196

7	Passive Decomposition Approach to Formation and Maneuver Control of Multiple Rigid Bodies. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2007</i> , 129, 662-677	1.6	29
6	Bilateral Teleoperation of Mobile Robot over Delayed Communication Network: Implementation. 2006 ,		15
5	An Experimental Comparison Study for Bilateral Internet-Based Teleoperation 2006 ,		5
4	Passive bilateral control and tool dynamics rendering for nonlinear mechanical teleoperators 2005 , 21, 936-951		61
3	PASSIVE BILATERAL CONTROL OF TELEOPERATORS UNDER CONSTANT TIME-DELAY. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005</i> , 38, 109-114		9
2	Passive decomposition of multiple mechanical systems under coordination requirements 2004 ,		3
1	Passive bilateral feedforward control of linear dynamically similar teleoperated manipulators. <i>IEEE Transactions on Automation Science and Engineering, 2003</i> , 19, 443-456		57