Dongjun Lee

List of Publications by Citations

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	Rugged and breathable forms of stretchable electronics with adherent composite substrates for transcutaneous monitoring. *Nature Communications*, **2014**, 5, 4779	17.4	245
77	Stable Flocking of Multiple Inertial Agents on Balanced Graphs. *IEEE Transactions on Automatic Control*, **2007**, 52, 1469-1475	5.9	196
76	. *IEEE Transactions on Robotics*, **2010**, 26, 354-369	6.5	137
75	. *IEEE/ASME Transactions on Mechatronics*, **2013**, 18, 1334-1345	5.5	126
74	. *IEEE Transactions on Robotics*, **2010**, 26, 978-992	6.5	77
73	Passivity-based adaptive backstepping control of quadrotor-type UAVs. *Robotics and Autonomous Systems*, **2014**, 62, 1305-1315	3.5	66
72	**2014**,		61
71	Passive bilateral control and tool dynamics rendering for nonlinear mechanical teleoperators **2005**, 21, 936-951		61
70	Experimental Comparison Study of Control Architectures for Bilateral Teleoperators. *IEEE Transactions on Robotics*, **2009**, 25, 1304-1318	6.5	59
69	Passive bilateral feedforward control of linear dynamically similar teleoperated manipulators. *IEEE Transactions on Automation Science and Engineering*, **2003**, 19, 443-456		57
68	**2016**,		56
67	ODAR: Aerial Manipulation Platform Enabling Omnidirectional Wrench Generation. *IEEE/ASME Transactions on Mechatronics*, **2018**, 23, 1907-1918	5.5	54
66	Telerobotics **2016**, 1085-1108		46
65	A Novel Robotic Platform for Aerial Manipulation Using Quadrotors as Rotating Thrust Generators. *IEEE Transactions on Robotics*, **2018**, 34, 353-369	6.5	44
64	Distributed backstepping control of multiple thrust-propelled vehicles on a balanced graph. *Automatica*, **2012**, 48, 2971-2977	5.7	41
63	Mechanics, control and internal dynamics of quadrotor tool operation. *Automatica*, **2015**, 61, 289-301	5.7	37
62	**2011**,		35

61	Stretchable Skin-Like Cooling/Heating Device for Reconstruction of Artificial Thermal Sensation in Virtual Reality. *Advanced Functional Materials*, **2020**, 30, 1909171	15.6	31
60	Multi-rotor drone tutorial: systems, mechanics, control and state estimation. *Intelligent Service Robotics*, **2017**, 10, 79-93	2.6	30
59	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	13	30
58	Aerial tool operation system using quadrotors as Rotating Thrust Generators **2015**,		29
57	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	29
56	. *IEEE/ASME Transactions on Mechatronics*, **2019**, 24, 67-77	5.5	24
55	Past, Present, and Future of Aerial Robotic Manipulators. *IEEE Transactions on Robotics*, **2021**, 1-20	6.5	24
54	Feedback r-passivity of Lagrangian systems for mobile robot teleoperation **2011**,		22
53	LASDRA: Large-Size Aerial Skeleton System with Distributed Rotor Actuation **2018**,		22
52	. *IEEE Transactions on Robotics*, **2013**, 29, 417-431	6.5	21
51	**2015**,		21
50	Semi-Autonomous Teleoperation of Multiple Wheeled Mobile Robots Over the Internet **2008**,		21
49	Bilateral Teleoperation of Mobile Robot over Delayed Communication Network: Implementation. **2006**,		15
48	. *IEEE Transactions on Automatic Control*, **2013**, 58, 230-235	5.9	14
47	Hybrid force/motion control and internal dynamics of quadrotors for tool operation **2013**,		13
46	First-person view semi-autonomous teleoperation of cooperative wheeled mobile robots with visuo-haptic feedback. *International Journal of Robotics Research*, **2017**, 36, 840-860	5.7	12
45	**2014**,		12
44	Mechanics and Control of Quadrotors for Tool Operation **2012**,		12

43	Haptic tele-driving of a wheeled mobile robot over the Internet: A PSPM approach **2010**,		11
42	**2008**,		11
41	Passive Configuration Decomposition and Passivity-Based Control of Nonholonomic Mechanical Systems. *IEEE Transactions on Robotics*, **2017**, 33, 281-297	6.5	10
40	Modeling and velocity-field control of autonomous excavator with main control valve. *Automatica*, **2019**, 104, 67-81	5.7	10
39	Backstepping Control of Quadrotor-Type UAVs and Its Application to Teleoperation over the Internet. *Advances in Intelligent Systems and Computing*, **2013**, 217-225	0.4	10
38	Extension of colgate's passivity condition for variable-rate haptics **2009**,		9
37	PASSIVE BILATERAL CONTROL OF TELEOPERATORS UNDER CONSTANT TIME-DELAY. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2005**, 38, 109-114		9
36	Pose and Posture Estimation of Aerial Skeleton Systems for Outdoor Flying **2019**,		8
35	Passive configuration decomposition and practical stabilization of nonholonomic mechanical systems with symmetry **2010**,		7
34	On Passive Non-Iterative Variable-Step Numerical Integration of Mechanical Systems for Haptic Rendering **2008**,		7
33	The Tele-MAGMaS: An Aerial-Ground Comanipulator System. *IEEE Robotics and Automation Magazine*, **2018**, 25, 66-75	3.4	7
32	Haptic rendering and interactive simulation using passive midpoint integration. *International Journal of Robotics Research*, **2017**, 36, 1341-1362	5.7	6
31	Hybrid virtual-proxy based control framework for passive bilateral teleoperation over the internet **2011**,		6
30	**2012**,		6
29	Passive set-position modulation approach for haptics with slow, variable, and asynchronous update **2009**,		6
28	Improving transparency of virtual coupling for haptic interaction with human force observer. *Robotica*, **2017**, 35, 354-369	2.1	5
27	Teleoperation of a platoon of distributed wheeled mobile robots with predictive display. *Autonomous Robots*, **2018**, 42, 1819-1836	3	5
26	Vision-based teleoperation of unmanned aerial and ground vehicles **2013**,		5

25	An Experimental Comparison Study for Bilateral Internet-Based Teleoperation **2006**,		5
24	Expert-Emulating Excavation Trajectory Planning for Autonomous Robotic Industrial Excavator **2020**,		5
23	Wearable Haptic Device for Stiffness Rendering of Virtual Objects in Augmented Reality. *Applied Sciences (Switzerland)*, **2021**, 11, 6932	2.6	5
22	**2010**,		4
21	Robust consensus of linear systems on directed graph with non-uniform delay. *IET Control Theory and Applications*, **2016**, 10, 2574-2579	2.5	3
20	Autonomous dynamic driving control of wheeled mobile robots **2014**,		3
19	Passive decomposition of multiple mechanical systems under coordination requirements **2004**,		3
18	Toward Transparent Virtual Coupling for Haptic Interaction during Contact Tasks. *The Journal of Korea Robotics Society*, **2013**, 8, 186-196	0.3	3
17	Distributed Rotor-Based Vibration Suppression for Flexible Object Transport and Manipulation **2020**,		3
16	Wearable 3-DOF cutaneous haptic device with integrated IMU-based finger tracking **2016**,		3
15	Visual-inertial hand motion tracking with robustness against occlusion, interference, and contact. *Science Robotics*, **2021**, 6, eabe1315	18.6	3
14	Passivity-based control of manipulator-stage systems on vertical flexible beam **2017**,		2
13	On the passivity of mechanical integrators in haptic rendering **2017**,		2
12	Preliminary results on passive velocity field control of quadrotors **2012**,		2
11	Distributed Backstepping Control of Multiple Thrust-Propelled Vehicles on Balanced Graph*. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 8872-8877		2
10	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		2
9	**2018**,		2
8	Section focused on new horizons in telerobotics for real-life applications. *Advanced Robotics*, **2018**, 32, 681-682	1.7	2

7	Haptic tele-driving of wheeled mobile robot over the internet via PSPM approach: theory and experiment. *Advanced Robotics*, **2018**, 32, 683-696	1.7	1
6	Measuring an operator's maneuverability performance in the haptic teleoperation of multiple robots **2011**,		1
5	. *IEEE Robotics and Automation Letters*, **2021**, 6, 3655-3662	4.2	1
4	User Interface Design for Semi-Autonomous Teleoperation of Manipulator-Stage System on Flexible Beam **2018**,		1
3	Precision Motion Control of Robotized Industrial Hydraulic Excavators via Data-Driven Model Inversion. *IEEE Robotics and Automation Letters*, **2022**, 7, 1912-1919	4.2	0
2	Erratum to Passive Decomposition and Control of Nonholomic Mechanical Systems *IEEE Transactions on Robotics*, **2011**, 27, 184-184	6.5	
1	Optimal Estimation and Feedforward Control of Strip-Longitudinal Hardness for Thickness Hunting Suppression of Tandem Cold Mill Process. *IFAC-PapersOnLine*, **2020**, 53, 11988-11995	0.7	