

Yonghan 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.

77
papers

1,709
citations

22
h-index

40
g-index

101
ext. papers

2,176
ext. citations

5.1
avg, IF

5.32
L-index

#	Paper	IF	Citations
77	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
76	. <i>IEEE Robotics and Automation Letters</i> , 2021 , 6, 3655-3662	4.2	1
75	Past, Present, and Future of Aerial Robotic Manipulators. <i>IEEE Transactions on Robotics</i> , 2021 , 1-20	6.5	24
74	Wearable Haptic Device for Stiffness Rendering of Virtual Objects in Augmented Reality. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6932	2.6	5
73	Visual-inertial hand motion tracking with robustness against occlusion, interference, and contact. <i>Science Robotics</i> , 2021 , 6, eabe1315	18.6	3
72	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
71	Long-Term Evaluation and Calibration of Low-Cost Particulate Matter (PM) Sensor. <i>Sensors</i> , 2020 , 20,	3.8	10
70	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
69	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	
68	Expert-Emulating Excavation Trajectory Planning for Autonomous Robotic Industrial Excavator 2020 ,		5
67	Artificial Thermal Sensation: Stretchable Skin-Like Cooling/Heating Device for Reconstruction of Artificial Thermal Sensation in Virtual Reality (Adv. Funct. Mater. 29/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070196	15.6	1
66	Distributed Rotor-Based Vibration Suppression for Flexible Object Transport and Manipulation 2020 ,		3
65	Pose and Posture Estimation of Aerial Skeleton Systems for Outdoor Flying 2019 ,		8
64	Modeling and velocity-field control of autonomous excavator with main control valve. <i>Automatica</i> , 2019 , 104, 67-81	5.7	10
63	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019 , 24, 67-77	5.5	24
62	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
61	Teleoperation of a platoon of distributed wheeled mobile robots with predictive display. <i>Autonomous Robots</i> , 2018 , 42, 1819-1836	3	5

60	Modeling, Estimation, and Control of HCCI Engine With In-Cylinder Pressure Sensing. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2018 , 140,	1.6	3
59	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
58	LASDRA: Large-Size Aerial Skeleton System with Distributed Rotor Actuation 2018 ,		22
57	2018 ,		2
56	The Tele-MAGMaS: An Aerial-Ground Comanipulator System. <i>IEEE Robotics and Automation Magazine</i> , 2018 , 25, 66-75	3.4	7
55	Section focused on new horizons in telerobotics for real-life applications. <i>Advanced Robotics</i> , 2018 , 32, 681-682	1.7	2
54	User Interface Design for Semi-Autonomous Teleoperation of Manipulator-Stage System on Flexible Beam 2018 ,		1
53	ODAR: Aerial Manipulation Platform Enabling Omnidirectional Wrench Generation. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018 , 23, 1907-1918	5.5	54
52	Improving transparency of virtual coupling for haptic interaction with human force observer. <i>Robotica</i> , 2017 , 35, 354-369	2.1	5
51	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
50	Multi-rotor drone tutorial: systems, mechanics, control and state estimation. <i>Intelligent Service Robotics</i> , 2017 , 10, 79-93	2.6	30
49	Passive Configuration Decomposition and Passivity-Based Control of Nonholonomic Mechanical Systems. <i>IEEE Transactions on Robotics</i> , 2017 , 33, 281-297	6.5	10
48	Haptic rendering and interactive simulation using passive midpoint integration. <i>International Journal of Robotics Research</i> , 2017 , 36, 1341-1362	5.7	6
47	Positioning control of an underwater robot with tilting thrusters via decomposition of thrust vector. <i>International Journal of Control, Automation and Systems</i> , 2017 , 15, 2283-2291	2.9	6
46	Passivity-based control of manipulator-stage systems on vertical flexible beam 2017 ,		2
45	On the passivity of mechanical integrators in haptic rendering 2017 ,		2
44	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
43	Wearable 3-DOF cutaneous haptic device with integrated IMU-based finger tracking 2016 ,		3

42	2016,			56
41	Mechanics, control and internal dynamics of quadrotor tool operation. <i>Automatica</i> , 2015 , 61, 289-301	5-7		37
40	2-D cooperative localization with omni-directional mobile robots 2015,			1
39	2015,			21
38	Aerial tool operation system using quadrotors as Rotating Thrust Generators 2015,			29
37	2014,			61
36	2014,			12
35	Preliminary experiments of kinesthetic exploration in a 6 DOF teleoperation system 2014,			1
34	Autonomous dynamic driving control of wheeled mobile robots 2014,			3
33	Design and control of a low cost 6 DOF master controller 2014,			4
32	Passivity-based adaptive backstepping control of quadrotor-type UAVs. <i>Robotics and Autonomous Systems</i> , 2014 , 62, 1305-1315	3-5		66
31	. <i>IEEE/ASME Transactions on Mechatronics</i> , 2013 , 18, 1334-1345	5-5		126
30	. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 230-235	5-9		14
29	. <i>IEEE Transactions on Robotics</i> , 2013 , 29, 417-431	6-5		21
28	Vision-based teleoperation of unmanned aerial and ground vehicles 2013,			5
27	Hybrid force/motion control and internal dynamics of quadrotors for tool operation 2013,			13
26	Distributed backstepping control of multiple thrust-propelled vehicles on a balanced graph. <i>Automatica</i> , 2012 , 48, 2971-2977	5-7		41
25	Preliminary results on passive velocity field control of quadrotors 2012,			2

24	Mechanics and Control of Quadrotors for Tool Operation 2012 ,		12
23	Erratum to Passive Decomposition and Control of Nonholonomic Mechanical Systems <i>IEEE Transactions on Robotics</i> , 2011 , 27, 184-184	6.5	
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	Haptic tele-driving of a wheeled mobile robot over the Internet: A PSPM approach 2010 ,		11
19	Passive configuration decomposition and practical stabilization of nonholonomic mechanical systems with symmetry 2010 ,		7
18	. <i>IEEE Transactions on Robotics</i> , 2010 , 26, 354-369	6.5	137
17	. <i>IEEE Transactions on Robotics</i> , 2010 , 26, 978-992	6.5	77
16	Passivity-based position consensus of multiple mechanical integrators with communication delay 2010 ,		1
15	Extension of colgate's passivity condition for variable-rate haptics 2009 ,		9
14	Experimental Comparison Study of Control Architectures for Bilateral Teleoperators. <i>IEEE Transactions on Robotics</i> , 2009 , 25, 1304-1318	6.5	59
13	Passive set-position modulation approach for haptics with slow, variable, and asynchronous update 2009 ,		6
12	Semi-Autonomous Teleoperation of Multiple Wheeled Mobile Robots Over the Internet 2008 ,		21
11	Using Time-Sequential Sampling to Stabilize the Color and Tone Reproduction Functions of a Xerographic Printing Process. <i>IEEE Transactions on Control Systems Technology</i> , 2007 , 15, 349-357	4.8	4
10	Stable Flocking of Multiple Inertial Agents on Balanced Graphs. <i>IEEE Transactions on Automatic Control</i> , 2007 , 52, 1469-1475	5.9	196
9	Passivity-Based Control of Bipedal Locomotion. <i>IEEE Robotics and Automation Magazine</i> , 2007 , 14, 30-40	3.4	103
8	Passive Decomposition Approach to Formation and Maneuver Control of Multiple Rigid Bodies. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2007 , 129, 662-677	1.6	29
7	Bilateral Teleoperation of Mobile Robot over Delayed Communication Network: Implementation. 2006 ,		15

6	Passive bilateral control and tool dynamics rendering for nonlinear mechanical teleoperators 2005 , 21, 936-951	61
5	Passive decomposition of multiple mechanical systems under coordination requirements 2004 ,	3
4	Time-sequential sampling and reconstruction of tone and color reproduction functions for xerographic printing 2004 ,	2
3	Passive bilateral feedforward control of linear dynamically similar teleoperated manipulators. <i>IEEE Transactions on Automation Science and Engineering</i> , 2003 , 19, 443-456	57
2	Passive coordination control of nonlinear bilateral teleoperated manipulators	1
1	Measuring an operator's maneuverability performance in the haptic teleoperation of multiple robots	1