

Jinoh Lee

List of Publications by Year in descending order

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80
papers

2,361
citations

394390

19
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302107

39
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80
all docs

80
docs citations

80
times ranked

1808
citing authors

#	ARTICLE	IF	CITATIONS
1	Practical Nonsingular Terminal Sliding-Mode Control of Robot Manipulators for High-Accuracy Tracking Control. IEEE Transactions on Industrial Electronics, 2009, 56, 3593-3601.	7.9	333
2	Continuous Nonsingular Terminal Sliding-Mode Control of Shape Memory Alloy Actuators Using Time Delay Estimation. IEEE/ASME Transactions on Mechatronics, 2015, 20, 899-909.	5.8	191
3	WALKERMAN: A High-Performance Humanoid Platform for Realistic Environments. Journal of Field Robotics, 2017, 34, 1225-1259.	6.0	175
4	Model-Free Robust Adaptive Control of Humanoid Robots With Flexible Joints. IEEE Transactions on Industrial Electronics, 2017, 64, 1706-1715.	7.9	168
5	Relative Impedance Control for Dual-Arm Robots Performing Asymmetric Bimanual Tasks. IEEE Transactions on Industrial Electronics, 2014, 61, 3786-3796.	7.9	126
6	Robust Control of Robot Manipulators Using Inclusive and Enhanced Time Delay Control. IEEE/ASME Transactions on Mechatronics, 2017, 22, 2141-2152.	5.8	120
7	An experimental study on time delay control of actuation system of tilt rotor unmanned aerial vehicle. Mechatronics, 2012, 22, 184-194.	3.3	91
8	Adaptive-Robust Time-Delay Control for a Class of Uncertain Euler-Lagrange Systems. IEEE Transactions on Industrial Electronics, 2017, 64, 7109-7119.	7.9	88
9	Anticipatory Robot Assistance for the Prevention of Human Static Joint Overloading in Human-Robot Collaboration. IEEE Robotics and Automation Letters, 2018, 3, 68-75.	5.1	85
10	Precise tracking control of shape memory alloy actuator systems using hyperbolic tangential sliding mode control with time delay estimation. Mechatronics, 2013, 23, 310-317.	3.3	76
11	Overcoming the Underestimation and Overestimation Problems in Adaptive Sliding Mode Control. IEEE/ASME Transactions on Mechatronics, 2019, 24, 2031-2039.	5.8	60
12	Development and control of a series elastic actuator equipped with a semi active friction damper for human friendly robots. Robotics and Autonomous Systems, 2014, 62, 1827-1836.	5.1	58
13	A New Adaptive-Robust Design for Time Delay Control Under State-Dependent Stability Condition. IEEE Transactions on Control Systems Technology, 2021, 29, 420-427.	5.2	56
14	Towards a multi-legged mobile manipulator. , 2016, , .		44
15	Adaptive-Robust Control of a Class of EL Systems With Parametric Variations Using Artificially Delayed Input and Position Feedback. IEEE Transactions on Control Systems Technology, 2019, 27, 603-615.	5.2	36
16	Proxy-based position control of manipulators with passive compliant actuators: Stability analysis and experiments. Robotics and Autonomous Systems, 2016, 75, 398-408.	5.1	33
17	Inversion-free force tracking control of piezoelectric actuators using fast finite-time integral terminal sliding-mode. Mechatronics, 2019, 57, 39-50.	3.3	33
18	Toward Position-Only Time-Delayed Control for Uncertain Euler-Lagrange Systems: Experiments on Wheeled Mobile Robots. IEEE Robotics and Automation Letters, 2017, 2, 1925-1932.	5.1	32

#	ARTICLE	IF	CITATIONS
19	A manipulation framework for compliant humanoid COMAN: Application to a valve turning task. , 2014, , .		30
20	A New Continuous-Time Stability Perspective of Time-Delay Control: Introducing a State-Dependent Upper Bound Structure. , 2019, 3, 475-480.		30
21	Center-of-Mass-Based Grasp Pose Adaptation Using 3D Range and Force/Torque Sensing. International Journal of Humanoid Robotics, 2018, 15, 1850013.	1.1	26
22	Control Architecture Design for a Fire Searching Robot using Task Oriented Design Methodology. , 2006, , .		22
23	Kinematic analysis and design considerations for optimal base frame arrangement of humanoid shoulders. , 2015, , .		22
24	Upper-body impedance control with variable stiffness for a door opening task. , 2014, , .		20
25	Robust and adaptive dynamic controller for fully-actuated robots in operational space under uncertainties. Autonomous Robots, 2019, 43, 1023-1040.	4.8	20
26	A real-time and reduced-complexity approach to the detection and monitoring of static joint overloading in humans. , 2017, 2017, 828-834.		18
27	Residual-Based External Torque Estimation in Series Elastic Actuators Over a Wide Stiffness Range: Frequency Domain Approach. IEEE Robotics and Automation Letters, 2018, 3, 1442-1449.	5.1	17
28	Visual Grasp Affordance Localization in Point Clouds Using Curved Contact Patches. International Journal of Humanoid Robotics, 2017, 14, 1650028.	1.1	16
29	Passivity Controller Based on Load-Side Damping Assignment for High Stiffness Controlled Series Elastic Actuators. IEEE Transactions on Industrial Electronics, 2021, 68, 871-881.	7.9	16
30	Online Centroidal Angular Momentum Reference Generation and Motion Optimization for Humanoid Push Recovery. IEEE Robotics and Automation Letters, 2021, 6, 5689-5696.	5.1	16
31	Model-free force tracking control of piezoelectric actuators: Application to variable damping actuator. , 2014, , .		15
32	Microscale Precision Control of a Computer-Assisted Transoral Laser Microsurgery System. IEEE/ASME Transactions on Mechatronics, 2020, 25, 604-615.	5.8	15
33	Robust and adaptive whole-body controller for humanoids with multiple tasks under uncertain disturbances. , 2016, , .		14
34	Relative task prioritization for dual-arm with multiple, conflicting tasks: Derivation and experiments. , 2013, , .		13
35	An active compliant impact protection system for humanoids: Application to WALK-MAN hands. , 2016, , .		13
36	Design and Study of a Next-Generation Computer-Assisted System for Transoral Laser Microsurgery. OTO Open, 2018, 2, 2473974X1877332.	1.4	12

#	ARTICLE	IF	CITATIONS
37	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
38	Online impedance parameter tuning for compliant biped balancing. , 2015, , .		11
39	Robust and model-free link position tracking control for humanoid COMAN with multiple compliant joints. , 2013, , .		10
40	Relaxing the Conservatism of Passivity Condition for Impedance Controlled Series Elastic Actuators. , 2019, , .		10
41	Design of Non-Circular Pulleys for Torque Generation: A Convex Optimisation Approach. IEEE Robotics and Automation Letters, 2021, 6, 958-965.	5.1	10
42	Human inspired fall prediction method for humanoid robots. Robotics and Autonomous Systems, 2019, 121, 103257.	5.1	9
43	Design and Analysis of a Fully Actuated Cable-Driven Joint for Hyper-Redundant Robots With Optimal Cable Routing. Journal of Mechanisms and Robotics, 2022, 14, .	2.2	9
44	Inverse dynamics control of bimanual object manipulation using orthogonal decomposition: An analytic approach. , 2017, , .		8
45	Incremental Model Predictive Control Exploiting Time-Delay Estimation for a Robot Manipulator. IEEE Transactions on Control Systems Technology, 2022, 30, 2285-2300.	5.2	8
46	A cost function inspired by human arms movement for a bimanual robotic machining. , 2012, , .		7
47	Guaranteeing task prioritization for redundant robots given maximum number of tasks and singularities. , 2012, , .		7
48	Natural redundancy resolution in dual-arm manipulation using configuration dependent stiffness (CDS) control. , 2014, , .		7
49	Experimental Study on Linear State Feedback Control of Humanoid Robots with Flexible Joints. IFAC-PapersOnLine, 2015, 48, 130-135.	0.9	7
50	Redundancy resolution for dual-arm robots inspired by human asymmetric bimanual action: Formulation and experiments. , 2015, , .		7
51	Toward Reactive Walking: Control of Biped Robots Exploiting an Event-Based FSM. IEEE Transactions on Robotics, 2022, 38, 683-698.	10.3	7
52	Link position control of a compliant actuator with unknown transmission friction torque. , 2013, , .		6
53	Terminal sliding-mode based force tracking control of piezoelectric actuators for variable physical damping system. , 2014, , .		6
54	Real-time damping estimation for variable impedance actuators. , 2014, , .		6

#	ARTICLE	IF	CITATIONS
55	Computationally Efficient HQP-based Whole-body Control Exploiting the Operational-space Formulation. , 2021, , .		6
56	Corrections for "Discretisation method and stability criteria for non-linear systems under discrete-time time delay control" IET Control Theory and Applications, 2016, 10, 1751-1754.	2.1	5
57	Online Joint Stiffness Transfer from Human Arm to Anthropomorphic Arm. , 2018, , .		5
58	Online Falling-Over Control of Humanoids Exploiting Energy Shaping and Distribution Methods. , 2018, , .		5
59	Self-Tuning Control for Articulated Robots Using the Plestan's Method. International Journal of Precision Engineering and Manufacturing, 2021, 22, 557-566.	2.2	5
60	Online Learning of Centroidal Angular Momentum towards Enhancing DCM-based Locomotion. , 2022, , .		5
61	Enhanced Operational Space Formulation for multiple tasks using Time Delay Estimation. , 2010, , .		4
62	Multi-sensor based fall prediction method for humanoid robots. , 2016, , .		4
63	Robust control of a system with a pneumatic spring. Journal of the Franklin Institute, 2021, 358, 555-574.	3.4	4
64	Study on operational space control of a redundant robot with un-actuated joints: experiments under actuation failure scenarios. Nonlinear Dynamics, 2021, 105, 331-344.	5.2	4
65	A two-staged residual for resilient external torque estimation with series elastic actuators. , 2017, , .		3
66	WALK-MAN Humanoid Platform. Springer Tracts in Advanced Robotics, 2018, , 495-548.	0.4	3
67	The CALM System: New Generation Computer-Assisted Laser Microsurgery. , 2019, , .		3
68	Agile Standing-up Control of Humanoids: Energy-based Reactive Contact Wrench Optimization with Strict Dynamic Consistency. , 2019, , .		3
69	Modeling Cable-Driven Joint Dynamics and Friction: a Bond-Graph Approach. , 2020, , .		3
70	Adaptive Artificial Time Delay Control for Bipedal Walking with Robustification to State-dependent Constraint Forces. , 2021, , .		3
71	RRT-based motion planning with sampling in Redundancy space for robots with anthropomorphic arms. , 2017, , .		2
72	Stability analysis for time delay control of nonlinear systems in discrete-time domain with a standard discretisation method. Control Theory and Technology, 2020, 18, 92-106.	1.6	2

#	ARTICLE	IF	CITATIONS
73	A Generalized Index for Fault-Tolerant Control in Operational Space Under Free-Swinging Actuation Failure. IEEE Robotics and Automation Letters, 2022, 7, 1486-1493.	5.1	2
74	Online Rolling Motion Generation for Humanoid Falls Based on Active Energy Control Concepts. , 2018, , .		1
75	Robust Link Position Tracking Control for Robot Manipulators with Series Elastic Actuators Using Time-delay Estimation. , 2019, , .		1
76	Preliminary Study on the Crawler Unit of a Novel Self-Reconfigurable Hybrid Platform for Inspection. , 2021, , .		1
77	Double loop control strategy with different time steps based on human characteristics. , 2012, 2012, 1925-8.		0
78	Intelligent, Adaptive Humanoids for Human Assistance. , 2020, , 221-234.		0
79	An Analysis on the Modeling Accuracy of Industrial Manipulators with Inherent Joint Elasticity. , 2021, , .		0
80	Analysis of task decoupling characteristics of null space projector with uncertainty from modelling error. , 2022, , .		0