

Pyung Hun Chang

List of Publications by Year in descending order

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34
papers

1,353
citations

567281

15
h-index

713466

21
g-index

34
all docs

34
docs citations

34
times ranked

1025
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	Robust Compliant Motion Control of Robot With Nonlinear Friction Using Time-Delay Estimation. IEEE Transactions on Industrial Electronics, 2008, 55, 258-269.	7.9	190
3	Relative Impedance Control for Dual-Arm Robots Performing Asymmetric Bimanual Tasks. IEEE Transactions on Industrial Electronics, 2014, 61, 3786-3796.	7.9	126
4	Robust Control of Robot Manipulators Using Inclusive and Enhanced Time Delay Control. IEEE/ASME Transactions on Mechatronics, 2017, 22, 2141-2152.	5.8	120
5	A Solution to the Accuracy/Robustness Dilemma in Impedance Control. IEEE/ASME Transactions on Mechatronics, 2009, 14, 282-294.	5.8	94
6	Robust Tracking Under Nonlinear Friction Using Time-Delay Control With Internal Model. IEEE Transactions on Control Systems Technology, 2009, 17, 1406-1414.	5.2	73
7	Variable PID Gain Tuning Method Using Backstepping Control With Time-Delay Estimation and Nonlinear Damping. IEEE Transactions on Industrial Electronics, 2014, 61, 6975-6985.	7.9	69
8	Bang-bang impact control using hybrid impedance/time-delay control. IEEE/ASME Transactions on Mechatronics, 2003, 8, 272-277.	5.8	51
9	An Adaptive Gain Dynamics for Time Delay Control Improves Accuracy and Robustness to Significant Payload Changes for Robots. IEEE Transactions on Industrial Electronics, 2020, 67, 3076-3085.	7.9	43
10	Stability Guaranteed Time Delay Control of Manipulators Using Nonlinear Damping and Terminal Sliding Mode. IEEE Transactions on Industrial Electronics, 2012, , 1-1.	7.9	37
11	Development of a Robotic Arm for Handicapped People: A Task-Oriented Design Approach. Autonomous Robots, 2003, 15, 81-92.	4.8	28
12	An Adaptive PID Control for Robot Manipulators Under Substantial Payload Variations. IEEE Access, 2020, 8, 162261-162270.	4.2	28
13	Enhanced Operational Space Formulation for Multiple Tasks by Using Time-Delay Estimation. IEEE Transactions on Robotics, 2012, 28, 773-786.	10.3	21
14	Stochastic estimation of human arm impedance under nonlinear friction in robot joints: A model study. Journal of Neuroscience Methods, 2010, 189, 97-112.	2.5	17
15	Sensorless and modeless estimation of external force using time delay estimation: application to impedance control. Journal of Mechanical Science and Technology, 2011, 25, 2051-2059.	1.5	17
16	The Optimal Speed for Cortical Activation of Passive Wrist Movements Performed by a Rehabilitation Robot: A Functional NIRS Study. Frontiers in Human Neuroscience, 2017, 11, 194.	2.0	15
17	The enhanced compact QP method for redundant manipulators using practical inequality constraints. , 0, , .		13
18	Relative task prioritization for dual-arm with multiple, conflicting tasks: Derivation and experiments. , 2013, , .		13

#	ARTICLE	IF	CITATIONS
19	A new chaotic attractor and its robust function projective synchronization. <i>Nonlinear Dynamics</i> , 2013, 73, 1883-1893.	5.2	10
20	Transparent teleoperation using two-channel control architectures. , 2005, , .		9
21	Enhanced feedforward control of non-minimum phase systems for tracking predefined trajectory. <i>International Journal of Control</i> , 2010, 83, 2440-2452.	1.9	8
22	Redundancy resolution for dual-arm robots inspired by human asymmetric bimanual action: Formulation and experiments. , 2015, , .		7
23	Significance of Causality Analysis for Transparent Teleoperation. , 0, , .		5
24	Development of a Robot Arm Assisting People with Disabilities at Working Place Using Task-Oriented Design. , 0, , .		5
25	Simple and Robust Attainment of Transparency Based on Two-Channel Control Architectures Using Time-Delay Control. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2010, 58, 309-337.	3.4	5
26	An Effective Adaptive Gain Dynamics for Time-Delay Control of Robot Manipulators. <i>IEEE Access</i> , 2020, 8, 192229-192238.	4.2	5
27	Enhanced Operational Space Formulation for multiple tasks using Time Delay Estimation. , 2010, , .		4
28	Stable Gain Adaptation for Time-Delay Control of Robot Manipulators. <i>IFAC-PapersOnLine</i> , 2019, 52, 217-222.	0.9	4
29	Extended transparency as a quantitative performance measure in bilateral teleoperation. , 2007, , .		1
30	An efficient framework for multiple tasks in human-like robots. , 2007, , .		1
31	Stochastic estimation of human arm impedance under nonlinear friction in robot joints: A model study. , 2009, , .		1
32	Time delay control with switching action using frequency-shaped integral sliding surface. , 0, , .		0
33	Improved Adaptive PID Control Using Time-Delay Estimation for Robot Manipulators. , 2019, , .		0
34	Modeless and Sensorless External Force Estimation using Time-Delay Estimation: Application to the Impedance Control. <i>The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM</i> , 2010, 2010.5, 385-391.	0.0	0