

Pyung Hun Chang

List of Publications by Year in descending order

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34
papers

1,353
citations

567281

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h-index

713466

21
g-index

34
all docs

34
docs citations

34
times ranked

1025
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | 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 |
| 2 | An Adaptive PID Control for Robot Manipulators Under Substantial Payload Variations. IEEE Access, 2020, 8, 162261-162270. | 4.2 | 28 |
| 3 | An Effective Adaptive Gain Dynamics for Time-Delay Control of Robot Manipulators. IEEE Access, 2020, 8, 192229-192238. | 4.2 | 5 |
| 4 | Improved Adaptive PID Control Using Time-Delay Estimation for Robot Manipulators. , 2019, , . | | 0 |
| 5 | Stable Gain Adaptation for Time-Delay Control of Robot Manipulators. IFAC-PapersOnLine, 2019, 52, 217-222. | 0.9 | 4 |
| 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 | 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 |
| 8 | Redundancy resolution for dual-arm robots inspired by human asymmetric bimanual action: Formulation and experiments. , 2015, , . | | 7 |
| 9 | Relative Impedance Control for Dual-Arm Robots Performing Asymmetric Bimanual Tasks. IEEE Transactions on Industrial Electronics, 2014, 61, 3786-3796. | 7.9 | 126 |
| 10 | 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 |
| 11 | A new chaotic attractor and its robust function projective synchronization. Nonlinear Dynamics, 2013, 73, 1883-1893. | 5.2 | 10 |
| 12 | Relative task prioritization for dual-arm with multiple, conflicting tasks: Derivation and experiments. , 2013, , . | | 13 |
| 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 | 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 |
| 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 | Simple and Robust Attainment of Transparency Based on Two-Channel Control Architectures Using Time-Delay Control. Journal of Intelligent and Robotic Systems: Theory and Applications, 2010, 58, 309-337. | 3.4 | 5 |
| 17 | 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 |
| 18 | Enhanced Operational Space Formulation for multiple tasks using Time Delay Estimation. , 2010, , . | | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Enhanced feedforward control of non-minimum phase systems for tracking predefined trajectory. International Journal of Control, 2010, 83, 2440-2452. | 1.9 | 8 |
| 20 | Modeless and Sensorless External Force Estimation using Time-Delay Estimation: Application to the Impedance Control. The Abstracts of the International Conference on Advanced Mechatronics Toward Evolutionary Fusion of IT and Mechatronics ICAM, 2010, 2010.5, 385-391. | 0.0 | 0 |
| 21 | Stochastic estimation of human arm impedance under nonlinear friction in robot joints: A model study. , 2009, , . | | 1 |
| 22 | 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 |
| 23 | 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 |
| 24 | A Solution to the Accuracy/Robustness Dilemma in Impedance Control. IEEE/ASME Transactions on Mechatronics, 2009, 14, 282-294. | 5.8 | 94 |
| 25 | 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 |
| 26 | Extended transparency as a quantitative performance measure in bilateral teleoperation. , 2007, , . | | 1 |
| 27 | An efficient framework for multiple tasks in human-like robots. , 2007, , . | | 1 |
| 28 | Transparent teleoperation using two-channel control architectures. , 2005, , . | | 9 |
| 29 | Development of a Robotic Arm for Handicapped People: A Task-Oriented Design Approach. Autonomous Robots, 2003, 15, 81-92. | 4.8 | 28 |
| 30 | Bang-bang impact control using hybrid impedance/time-delay control. IEEE/ASME Transactions on Mechatronics, 2003, 8, 272-277. | 5.8 | 51 |
| 31 | The enhanced compact QP method for redundant manipulators using practical inequality constraints. , 0, , . | | 13 |
| 32 | Time delay control with switching action using frequency-shaped integral sliding surface. , 0, , . | | 0 |
| 33 | Significance of Causality Analysis for Transparent Teleoperation. , 0, , . | | 5 |
| 34 | Development of a Robot Arm Assisting People with Disabilities at Working Place Using Task-Oriented Design. , 0, , . | | 5 |