

Pengcheng Liu

List of Publications by Year in descending order

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33
papers

675
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687363

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times ranked

444
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptive neural network tracking control for underactuated systems with matched and mismatched disturbances. <i>Nonlinear Dynamics</i> , 2019, 98, 1447-1464.	5.2	95
2	A Novel Weakly-Supervised Approach for RGB-D-Based Nuclear Waste Object Detection. <i>IEEE Sensors Journal</i> , 2019, 19, 3487-3500.	4.7	91
3	Optimized adaptive tracking control for an underactuated vibro-driven capsule system. <i>Nonlinear Dynamics</i> , 2018, 94, 1803-1817.	5.2	50
4	Classification of EEG-based single-trial motor imagery tasks using a B-CSP method for BCI. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2019, 20, 1087-1098.	2.6	48
5	A survey on underactuated robotic systems: Bio-inspiration, trajectory planning and control. <i>Mechatronics</i> , 2020, 72, 102443.	3.3	42
6	Single-Trial Classification of Different Movements on One Arm Based on ERD/ERS and Corticomuscular Coherence. <i>IEEE Access</i> , 2019, 7, 128185-128197.	4.2	38
7	Modelling and analysis of dynamic frictional interactions of vibro-driven capsule systems with viscoelastic property. <i>European Journal of Mechanics, A/Solids</i> , 2019, 74, 16-25.	3.7	24
8	Robot-assisted smart firefighting and interdisciplinary perspectives. , 2016, , .		22
9	Geometric analysis-based trajectory planning and control for underactuated capsule systems with viscoelastic property. <i>Transactions of the Institute of Measurement and Control</i> , 2018, 40, 2416-2427.	1.7	22
10	Modelling and Motion Analysis of a Pill-Sized Hybrid Capsule Robot. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2020, 100, 753-764.	3.4	22
11	Improving Local Trajectory Optimisation using Probabilistic Movement Primitives. , 2019, , .		21
12	Trajectory Synthesis and Optimization of an Underactuated Microbotic System with Dynamic Constraints and Couplings. <i>International Journal of Control, Automation and Systems</i> , 2018, 16, 2373-2383.	2.7	20
13	On the dynamics of a vibro-driven capsule system. <i>Archive of Applied Mechanics</i> , 2018, 88, 2199-2219.	2.2	19
14	A self-propelled robotic system with a visco-elastic joint: dynamics and motion analysis. <i>Engineering With Computers</i> , 2020, 36, 655-669.	6.1	19
15	Design and Implementation of Novel Fractional-Order Controllers for Stabilized Platforms. <i>IEEE Access</i> , 2020, 8, 93133-93144.	4.2	14
16	Energy-Efficient Design and Control of a Vibro-Driven Robot. , 2018, , .		13
17	Modelling and dynamic analysis of underactuated capsule systems with friction-induced hysteresis. , 2016, , .		12
18	A Novel CSI Feedback Approach for Massive MIMO Using LSTM-Attention CNN. <i>IEEE Access</i> , 2020, 8, 7295-7302.	4.2	12

#	ARTICLE	IF	CITATIONS
19	Benchmarking and optimization of robot motion planning with motion planning pipeline. International Journal of Advanced Manufacturing Technology, 2022, 118, 949-961.	3.0	12
20	Lightweight and efficient neural network with SPSA attention for wheat ear detection. PeerJ Computer Science, 2022, 8, e931.	4.5	11
21	On periodically pendulum-driven systems for underactuated locomotion: A viscoelastic jointed model. , 2015, , .		10
22	Modelling and control of an elastically joint-actuated cart-pole underactuated system. , 2014, , .		8
23	Block-Sparsity Log-Sum-Induced Adaptive Filter for Cluster Sparse System Identification. IEEE Access, 2020, 8, 175265-175276.	4.2	8
24	Control and benchmarking of a 7-DOF robotic arm using Gazebo and ROS. PeerJ Computer Science, 2021, 7, e383.	4.5	8
25	A Review of Motion Planning Algorithms for Robotic Arm Systems. Lecture Notes in Mechanical Engineering, 2021, , 56-66.	0.4	7
26	Channel Estimation for MmWave Massive MIMO With Hybrid Precoding Based on Log-Sum Sparse Constraints. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1882-1886.	3.0	6
27	Reweighted l_p constraint LMS-based adaptive sparse channel estimation for cooperative communication system. IET Communications, 2020, 14, 1384-1391.	2.2	5
28	Active triggering control of pneumatic rehabilitation gloves based on surface electromyography sensors. PeerJ Computer Science, 2021, 7, e448.	4.5	4
29	Service humanoid robotics: a novel interactive system based on bionic-companionship framework. PeerJ Computer Science, 2021, 7, e674.	4.5	4
30	Effect of shoulder angle variation on sEMG-based elbow joint angle estimation. International Journal of Industrial Ergonomics, 2018, 68, 280-289.	2.6	3
31	Model-Based and Model-Free Robot Control: A Review. Lecture Notes in Mechanical Engineering, 2021, , 45-55.	0.4	3
32	Service Humanoid Robotics: Review and Design of a Novel Bionic-Companionship Framework. Lecture Notes in Mechanical Engineering, 2021, , 185-194.	0.4	1
33	Development and Evaluation of a Novel Robotic System for Search and Rescue. Lecture Notes in Computer Science, 2019, , 370-382.	1.3	0