Hang Su

List of Publications by Year in descending order

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88 papers	3,123 citations	159585 30 h-index	168389 53 g-index
88 all docs	88 docs citations	88 times ranked	2266 citing authors

#	Article	IF	Citations
1	An Approach for Robotic Leaning Inspired by Biomimetic Adaptive Control. IEEE Transactions on Industrial Informatics, 2022, 18, 1479-1488.	11.3	23
2	Adaptive Finite-Time Trajectory Tracking Control of Autonomous Vehicles That Experience Disturbances and Actuator Saturation. IEEE Intelligent Transportation Systems Magazine, 2022, 14, 80-91.	3.8	2
3	Development and Continuous Control of an Intelligent Upper-Limb Neuroprosthesis for Reach and Grasp Motions Using Biological Signals. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 3431-3441.	9.3	7
4	Fuzzy-Torque Approximation-Enhanced Sliding Mode Control for Lateral Stability of Mobile Robot. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 2491-2500.	9.3	108
5	An Incremental Learning Framework for Human-Like Redundancy Optimization of Anthropomorphic Manipulators. IEEE Transactions on Industrial Informatics, 2022, 18, 1864-1872.	11.3	90
6	Automatic Parking Control of Unmanned Vehicle Based on Switching Control Algorithm and Backstepping. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1233-1243.	5.8	35
7	DCNN based human activity recognition framework with depth vision guiding. Neurocomputing, 2022, 486, 261-271.	5.9	28
8	Study on cutting force and induced thermal damage of carbon fiber reinforced polymer composites using microscopic simulation modeling. Polymer Composites, 2022, 43, 1626-1636.	4.6	6
9	A Small Opening Workspace Control Strategy for Redundant Manipulator Based on RCM Method. IEEE Transactions on Control Systems Technology, 2022, 30, 2717-2725.	5.2	15
10	A Cybertwin Based Multimodal Network for ECG Patterns Monitoring Using Deep Learning. IEEE Transactions on Industrial Informatics, 2022, 18, 6663-6670.	11.3	71
11	Fuzzy Approximation-Based Task-Space Control of Robot Manipulators With Remote Center of Motion Constraint. IEEE Transactions on Fuzzy Systems, 2022, 30, 1564-1573.	9.8	61
12	Neural network-enhanced optimal motion planning for robot manipulation under remote center of motion. , 2022, , 247-264.		0
13	Pneumatic Soft Robots: Challenges and Benefits. Actuators, 2022, 11, 92.	2.3	39
14	A human activity-aware shared control solution for medical humanâ€“robot interaction. Assembly Automation, 2022, 42, 388-394.	1.7	49
15	A study of surface integrity in carbon fiber-reinforced polymer composites cutting with the coupling effect of the multiple machining parameters. Journal of Composite Materials, 2022, 56, 2385-2397.	2.4	1
16	Teleoperation Control of an Underactuated Bionic Hand: Comparison between Wearable and Vision-Tracking-Based Methods. Robotics, 2022, 11, 61.	3.5	8
17	Theory, Applications, and Challenges of Cyber-Physical Systems 2021. Complexity, 2022, 2022, 1-3.	1.6	0
18	Human-Robot Shared Control for Surgical Robot Based on Context-Aware Sim-to-Real Adaptation. , 2022, , .		16

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19	The snake-inspired robots: a review. Assembly Automation, 2022, 42, 567-583.	1.7	7
20	Neural Approximation-based Model Predictive Tracking Control of Non-holonomic Wheel-legged Robots. International Journal of Control, Automation and Systems, 2021, 19, 372-381.	2.7	43
21	Experimental validation of manipulability optimization control of a 7â€DoF serial manipulator for robotâ€assisted surgery. International Journal of Medical Robotics and Computer Assisted Surgery, 2021, 17, 1-11.	2.3	7
22	Human-in-the-Loop Control Strategy of Unilateral Exoskeleton Robots for Gait Rehabilitation. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 57-66.	3.8	25
23	Deep Neural Network Approach in EMG-Based Force Estimation for Humanâ€“Robot Interaction. IEEE Transactions on Artificial Intelligence, 2021, 2, 404-412.	4.7	35
24	Adaptive sensor fusion labeling framework for hand pose recognition in robot teleoperation. Assembly Automation, 2021, 41, 393-400.	1.7	6
25	Design and evaluation of the target spray platform. International Journal of Advanced Robotic Systems, 2021, 18, 172988142199614.	2.1	6
26	A novel autonomous learning framework to enhance sEMG-based hand gesture recognition using depth information. Biomedical Signal Processing and Control, 2021, 66, 102444.	5.7	27
27	Toward Teaching by Demonstration for Robot-Assisted Minimally Invasive Surgery. IEEE Transactions on Automation Science and Engineering, 2021, 18, 484-494.	5.2	116
28	Trajectory prediction of cyclist based on dynamic Bayesian network and long short-term memory model at unsignalized intersections. Science China Information Sciences, 2021, 64, 1.	4.3	56
29	Cation Engineering for Effective Defect Passivation to Improve Efficiency and Stability of FA0.5MA0.5PbI3 Perovskite Solar Cells. ACS Applied Energy Materials, 2021, 4, 7654-7660.	5.1	3
30	Whole-body Spatial Teleoperation Control of a Hexapod Robot in Unstructured Environment. , 2021, , .		3
31	Guest Editorial: Integrating sensor fusion and perception for humanâ€“robot interaction. Cognitive Computation and Systems, 2021, 3, 183-186.	1.4	0
32	Pyrenesulfonic Acid Sodium Salt for Effective Bottomâ€Surface Passivation to Attain High Performance of Perovskite Solar Cells. Solar Rrl, 2021, 5, 2100416.	5.8	8
33	Visible Light-Driven Reforming of Lignocellulose into H₂ by Intrinsic Monolayer Carbon Nitride. ACS Applied Materials & Interfaces, 2021, 13, 44243-44253.	8.0	24
34	Nonlinear Model Predictive Control for Mobile Medical Robot Using Neural Optimization. IEEE Transactions on Industrial Electronics, 2021, 68, 12636-12645.	7.9	33
35	Novel Adaptive Sensor Fusion Methodology for Hand Pose Estimation With Multileap Motion. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-8.	4.7	20
36	Sensor Fusion-based Anthropomorphic Control of Under-Actuated Bionic Hand in Dynamic Environment. , 2021, , .		9

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37	Bilateral Teleoperation Control of a Redundant Manipulator with an RCM Kinematic Constraint. , 2020, , .		20
38	Internet of Things (IoT)-based Collaborative Control of a Redundant Manipulator for Teleoperated Minimally Invasive Surgeries. , 2020, , .		32
39	Hierarchical Task Impedance Control of a Serial Manipulator for Minimally Invasive Surgery. , 2020, , .		1
40	Parallel structure of six wheel-legged robot trajectory tracking control with heavy payload under uncertain physical interaction. Assembly Automation, 2020, 40, 675-687.	1.7	58
41	Improved recurrent neural network-based manipulator control with remote center of motion constraints: Experimental results. Neural Networks, 2020, 131, 291-299.	5.9	166
42	Machine Learning Driven Human Skill Transferring for Control of Anthropomorphic Manipulators. , 2020, , .		2
43	Depth Vision Guided Human Activity Recognition in Surgical Procedure using Wearable Multisensor. , 2020, , .		4
44	Reinforcement Learning Based Manipulation Skill Transferring for Robot-assisted Minimally Invasive Surgery. , 2020, , .		10
45	Printable CsPbI₃ Perovskite Solar Cells with PCE of 19% via an Additive Strategy. Advanced Materials, 2020, 32, e2001243.	21.0	157
46	Locomotion Prediction for Lower Limb Prostheses in Complex Environments via sEMG and Inertial Sensors. Complexity, 2020, 2020, 1-12.	1.6	10
47	Neural fuzzy approximation enhanced autonomous tracking control of the wheel-legged robot under uncertain physical interaction. Neurocomputing, 2020, 410, 342-353.	5.9	114
48	A novel muscle-computer interface for hand gesture recognition using depth vision. Journal of Ambient Intelligence and Humanized Computing, 2020, 11, 5569-5580.	4.9	20
49	Deep Neural Network Approach in Robot Tool Dynamics Identification for Bilateral Teleoperation. IEEE Robotics and Automation Letters, 2020, 5, 2943-2949.	5.1	124
50	Deep C-LSTM Neural Network for Epileptic Seizure and Tumor Detection Using High-Dimension EEG Signals. IEEE Access, 2020, 8, 37495-37504.	4.2	43
51	Depth vision guided hand gesture recognition using electromyographic signals. Advanced Robotics, 2020, 34, 985-997.	1.8	49
52	Adaptive Robust Force Position Control for Flexible Active Prosthetic Knee Using Gait Trajectory. Applied Sciences (Switzerland), 2020, 10, 2755.	2.5	5
53	A Smartphone-Based Adaptive Recognition and Real-Time Monitoring System for Human Activities. IEEE Transactions on Human-Machine Systems, 2020, 50, 414-423.	3.5	112
54	Human Activity Recognition Enhanced Robot-Assisted Minimally Invasive Surgery. Mechanisms and Machine Science, 2020, , 121-129.	0.5	1

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55	Improving Motion Planning for Surgical Robot with Active Constraints. , 2020, , .		4
56	Hierarchical optimization Control of Redundant Manipulator for Robot-assisted Minimally Invasive Surgery. , 2020, , .		5
57	Coâ€“Mn spinel supported self-catalysis induced N-doped carbon nanotubes with high efficiency electron transport channels for zincâ€“air batteries. Journal of Materials Chemistry A, 2019, 7, 22307-22313.	10.3	92
58	Novel Design and Lateral Stability Tracking Control of a Four-Wheeled Rollator. Applied Sciences (Switzerland), 2019, 9, 2327.	2.5	17
59	Nonlinear Model Predictive Control for Mobile Robot Using Varying-Parameter Convergent Differential Neural Network. Robotics, 2019, 8, 64.	3.5	22
60	Manipulability Optimization Control of a Serial Redundant Robot for Robot-assisted Minimally Invasive Surgery. , 2019, , .		31
61	A Fast and Robust Deep Convolutional Neural Networks for Complex Human Activity Recognition Using Smartphone. Sensors, 2019, 19, 3731.	3.8	79
62	Towards Model-Free Tool Dynamic Identification and Calibration Using Multi-Layer Neural Network. Sensors, 2019, 19, 3636.	3.8	32
63	Neural Network Enhanced Robot Tool Identification and Calibration for Bilateral Teleoperation. IEEE Access, 2019, 7, 122041-122051.	4.2	37
64	Deep Neural Network Approach in Human-Like Redundancy Optimization for Anthropomorphic Manipulators. IEEE Access, 2019, 7, 124207-124216.	4.2	55
65	A Robot Learning Method with Physiological Interface for Teleoperation Systems. Applied Sciences (Switzerland), 2019, 9, 2099.	2.5	19
66	Observer-Based Adaptive Fuzzy Fault-Tolerant Control for Nonlinear Systems Using Small-Gain Approach. International Journal of Fuzzy Systems, 2019, 21, 685-699.	4.0	6
67	Improved Humanâ€“Robot Collaborative Control of Redundant Robot for Teleoperated Minimally Invasive Surgery. IEEE Robotics and Automation Letters, 2019, 4, 1447-1453.	5.1	169
68	Neuromorphic Visual Odometry System For Intelligent Vehicle Application With Bio-inspired Vision Sensor. , 2019, , .		9
69	Adaptive fuzzy control of MIMO nonstrict-feedback nonlinear systems with fuzzy dead zones and time delays. Nonlinear Dynamics, 2019, 95, 1565-1583.	5.2	14
70	Online human-like redundancy optimization for tele-operated anthropomorphic manipulators. International Journal of Advanced Robotic Systems, 2018, 15, 172988141881469.	2.1	40
71	Safety-Enhanced Human-Robot Interaction Control of Redundant Robot for Teleoperated Minimally Invasive Surgery. , 2018, , .		35
72	Safety-enhanced Collaborative Framework for Tele-operated Minimally Invasive Surgery Using a 7-DoF Torque-controlled Robot. International Journal of Control, Automation and Systems, 2018, 16, 2915-2923.	2.7	53

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73	Adaptive fuzzy FTC design of nonlinear stochastic systems with actuator faults and unmodeled dynamics. International Journal of Adaptive Control and Signal Processing, 2018, 32, 1081-1101.	4.1	12
74	Fuzzy adaptive control of nonlinear MIMO systems with unknown dead zone outputs. Journal of the Franklin Institute, 2018, 355, 5690-5720.	3.4	23
75	CuCo₂S₄ Nanosheets Coupled With Carbon Nanotube Heterostructures for Highly Efficient Capacitive Energy Storage. ChemElectroChem, 2018, 5, 2496-2502.	3.4	21
76	Fuzzy adaptive control for SISO nonlinear uncertain systems based on backstepping and small-gain approach. Neurocomputing, 2017, 238, 212-226.	5.9	18
77	Novel adefovir mono L-amino acid ester, mono bile acid ester derivatives: Design, synthesis, biological evaluation, and molecular docking study. Medicinal Chemistry Research, 2017, 26, 1812-1821.	2.4	1
78	Supermarket commodity identification using convolutional neural networks. , 2016, , .		0
79	A mode mixing elimination method of HHT in fault detection. , 2016, , .		1
80	Time-frequency analysis based on Compressive Sensing. , 2016, , .		2
81	Adaptive control with a fuzzy tuner for cable-based rehabilitation robot. International Journal of Control, Automation and Systems, 2016, 14, 865-875.	2.7	49
82	Constrained Multilegged Robot System Modeling and Fuzzy Control With Uncertain Kinematics and Dynamics Incorporating Foot Force Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 1-15.	9.3	135
83	Application ofN-substituted (aminomethyl)benzoate Strategy in Design of Scutellarein Derivatives with Improved Caco-2 Cell Permeability andIn VitroAntioxidative Activity. Bulletin of the Korean Chemical Society, 2015, 36, 1959-1965.	1.9	1
84	Fuzzy Approximation-Based Adaptive Backstepping Control of an Exoskeleton for Human Upper Limbs. IEEE Transactions on Fuzzy Systems, 2015, 23, 555-566.	9.8	206
85	Development of multi-fingered dexterous hand for grasping manipulation. Science China Information Sciences, 2014, 57, 1-10.	4.3	13
86	Barrier Lyapunov Based Control of dual-arm exoskeleton robots performing asymmetric bimanual tasks. , 2014, , .		1
87	Multimodal data fusion framework enhanced robot-assisted minimally invasive surgery. Transactions of the Institute of Measurement and Control, 0, , 014233122098435.	1.7	3
88	Incorporating model predictive control with fuzzy approximation for robot manipulation under remote center of motion constraint. Complex & Intelligent Systems, 0, , 1.	6.5	3