Chao Liu

List of Publications by Year
in descending order

33 papers	757 citations	623574 14 h-index	794469 19 g-index
33 all docs	33 docs citations	33 times ranked	695 citing authors

#	Article	IF	Citations
1	On decentralized adaptive full-order sliding mode control of multiple UAVs. ISA Transactions, 2017, 71, 196-205.	3.1	120
2	Haptics Electromyography Perception and Learning Enhanced Intelligence for Teleoperated Robot. IEEE Transactions on Automation Science and Engineering, 2019, 16, 1512-1521.	3.4	81
3	Synchronized path following control of multiple homogenous underactuated AUVs. Journal of Systems Science and Complexity, 2012, 25, 71-89.	1.6	71
4	Three-dimensional Motion Tracking for Beating Heart Surgery Using a Thin-plate Spline Deformable Model. International Journal of Robotics Research, 2010, 29, 218-230.	5.8	67
5	Viscoelastic model based force control for soft tissue interaction and its application in physiological motion compensation. Computer Methods and Programs in Biomedicine, 2014, 116, 52-67.	2.6	50
6	Motion prediction via online instantaneous frequency estimation for vision-based beating heart tracking. Information Fusion, 2017, 35, 58-67.	11.7	44
7	A Scaled Bilateral Teleoperation System for Robotic-Assisted Surgery with Time Delay. Journal of Intelligent and Robotic Systems: Theory and Applications, 2019, 95, 165-192.	2.0	37
8	Reconstructing a 3D heart surface with stereo-endoscope by learning eigen-shapes. Biomedical Optics Express, 2018, 9, 6222.	1.5	33
9	A triangular radial cubic spline deformation model for efficient 3D beating heart tracking. Signal, Image and Video Processing, 2017, 11, 1329-1336.	1.7	31
10	A Quasi-Spherical Triangle-Based Approach for Efficient 3-D Soft-Tissue Motion Tracking. IEEE/ASME Transactions on Mechatronics, 2013, 18, 1472-1484.	3.7	26
11	3D soft-tissue tracking using spatial-color joint probability distribution and thin-plate spline model. Pattern Recognition, 2014, 47, 2962-2973.	5.1	22
12	A Novel Robotic Guidance System With Eye-Gaze Tracking Control for Needle-Based Interventions. IEEE Transactions on Cognitive and Developmental Systems, 2021, 13, 179-188.	2.6	21
13	A Robot Learning Method with Physiological Interface for Teleoperation Systems. Applied Sciences (Switzerland), 2019, 9, 2099.	1.3	19
14	Motion Prediction of Beating Heart Using Spatio-Temporal LSTM. IEEE Signal Processing Letters, 2022, 29, 787-791.	2.1	17
15	Task-space position control of concentric-tube robot with inaccurate kinematics using approximate Jacobian. , 2014, , .		14
16	Nonlinear Model-Mediated Teleoperation for Surgical Applications under Time Variant Communication Delay. IFAC-PapersOnLine, 2018, 51, 493-499.	0.5	14
17	Optimal Feature Selection for EMG-Based Finger Force Estimation Using LightGBM Model. , 2019, , .		13
18	Robot Teleoperation System Based on Mixed Reality. , 2019, , .		12

#	Article	IF	Citations
19	3D force control for robotic-assisted beating heart surgery based on viscoelastic tissue model. , 2011, 2011, 7054-8.		10
20	A method of motion recognition based on electromyographic signals. Advanced Robotics, 2020, 34, 976-984.	1.1	9
21	Stable and enhanced position-force tracking for bilateral teleoperation with time delay. , 2015, , .		8
22	Stability and performance analysis of three-channel teleoperation control architectures for medical applications. , 2013, , .		7
23	Viscoelastic model based force tracking control for robotic-assisted surgery. , 2012, , .		6
24	A Wave Variable Approach With Multiple Channel Architecture for Teleoperated System. IEEE Access, 2019, 7, 143912-143920.	2.6	6
25	SP-ID regulation of rigid-link electrically-driven robots with uncertain kinematics. , 2010, , .		5
26	Robust 3<scp>D</scp> Motion Tracking for Visionâ€Based Control in Robotic Heart Surgery. Asian Journal of Control, 2014, 16, 632-645.	1.9	4
27	PCA-based 3D pose modeling for beating heart tracking. , 2017, , .		4
28	The Design of Compact Robotic-Assisted Needle Position System with MPC-Based Remote Control. Complexity, 2020, 2020, 1-13.	0.9	3
29	Online Adaptive Identification and Switching of Soft Contact Model Based on ART-II Method. , 2022, , .		2
30	A Framework of Human Impedance recognition. , 2019, , .		1
31	Finite-time adaptive force control for rheonomically constrained manipulators. , 2014, , .		0
32	Motion prediction using dual Kalman filter for robust beating heart tracking. , 2015, 2015, 4875-8.		0
33	Wrist Motion Recognition by Using Electromyographic Signals. , 2019, , .		0