Nan Xiao

List of Publications by Year
in descending order

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62 papers	860 citations	759233 12 h-index	1058476 14 g-index
62 all docs	62 docs citations	62 times ranked	271 citing authors

#	Article	IF	Citations
1	Biologically Inspired and Rehabilitation Robotics 2020. Applied Bionics and Biomechanics, 2022, 2022, 1-2.	1.1	1
2	Automatic Intracranial Aneurysm Segmentation Based on Spatial Information Fusion Feature from 3D-RA using U-Net. , 2021, , .		2
3	A Teleoperation Control Method for Vascular Interventional Surgery Robot. , 2021, , .		1
4	Design of a Novel Balloon Catheter Delivery Mechanism for the Vascular Interventional Robotic System. , 2020, , .		1
5	Reciprocating Operation Method for Vascular Intervention Surgery Robot. , 2020, , .		1
6	A vascular interventional surgical robot based on surgeonâ€™s operating skills. Medical and Biological Engineering and Computing, 2019, 57, 1999-2010.	2.8	53
7	Biologically Inspired and Rehabilitation Robotics. Applied Bionics and Biomechanics, 2019, 2019, 1-2.	1.1	2
8	Real-Time Facial Expression Recognition Using Deep Convolutional Neural Network. , 2019, , .		3
9	A CNN-based prototype method of unstructured surgical state perception and navigation for an endovascular surgery robot. Medical and Biological Engineering and Computing, 2019, 57, 1875-1887.	2.8	60
10	A Novel Catheter Rotation Structure for Aseptic Environment of Interventional Surgery Robot. , 2019, , .		3
11	Design and evaluation of sensorized robot for minimally vascular interventional surgery. Microsystem Technologies, 2019, 25, 2759-2766.	2.0	39
12	Surgeonsâ€™ Operation Skill-Based Control Strategy and Preliminary Evaluation for a Vascular Interventional Surgical Robot. Journal of Medical and Biological Engineering, 2019, 39, 653-664.	1.8	18
13	A cooperation of catheters and guidewires-based novel remote-controlled vascular interventional robot. Biomedical Microdevices, 2018, 20, 20.	2.8	86
14	Operating force information on-line acquisition of a novel slave manipulator for vascular interventional surgery. Biomedical Microdevices, 2018, 20, 33.	2.8	64
15	Operation evaluation in-human of a novel remote-controlled vascular interventional robot. Biomedical Microdevices, 2018, 20, 34.	2.8	74
16	A Novel Suppression Algorithm of Isometric Tremor for the Vascular Interventional Surgical Robot*. , 2018, , .		3
17	Biologically Inspired Robotics 2016. Journal of Robotics, 2018, 2018, 1-2.	0.9	0
18	Transverse microvibrations-based guide wires drag reduction evaluation for endovascular interventional application. Biomedical Microdevices, 2018, 20, 69.	2.8	12

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19	Compensatory force measurement and multimodal force feedback for remote-controlled vascular interventional robot. Biomedical Microdevices, 2018, 20, 74.	2.8	68
20	Characteristics evaluation of a rehabilitation robot for upper limbs. , 2017, , .		1
21	Tensor-mass Model based real-time simulation of vessel deformation and force feedback for the interventional surgery training system. , 2017, , .		8
22	Toward cooperation of catheter and guidewire for remote-controlled vascular interventional robot. , 2017, , .		10
23	An improved threshold method based on histogram entropy for the blood vessel segmentation. , 2017, , .		1
24	Cable-driven interventional operation robot with Stribeck friction feedforward compensation. , 2017, , .		3
25	A novel sensing system of catheter/guidewire operation for vascular interventional surgery. , 2017, , .		3
26	A novel application of positioning method with force feedback for interventional surgery robot. , 2016, , .		3
27	Design and evaluation of a novel guidewire navigation robot. , 2016, , .		22
28	A fuzzy PID control algorithm for the interventional surgical robot with guide wire feedback force. , 2016, , .		2
29	A novel system for stereotactic surgery: Preliminary evaluation of targeting accuracy. , 2015, , .		0
30	Biologically Inspired Robotics. Journal of Robotics, 2015, 2015, 1-2.	0.9	27
31	Evaluating performance of a novel developed robotic catheter manipulating system. Journal of Micro-Bio Robotics, 2013, 8, 133-143.	2.1	25
32	A method of decreasing transmission time of visual feedback for the Internet-based surgical training system. , 2013, , .		5
33	Remote catheterization using a new robotic catheter manipulating system. , 2013, , .		0
34	Development of a doctor's finger motion measurement device for a remote catheter operating system. , 2013, , .		1
35	A force acquisition method in a catheter navigation system. , 2013, , .		4
36	Internet based remote control for a robotic catheter manipulating system. , 2012, , .		9

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37	Development of a 3D blood vessel model for the simulation of the minimally invasive surgery. , 2012, , .		2
38	A method of decreasing time delay for a tele-surgery system. , 2012, , .		8
39	Development of a novel robotic catheter manipulating system. , 2012, , .		3
40	Control of the wireless microrobot with multi-DOFs locomotion for medical applications. , 2012, , .		14
41	NARX model-based identification for the developed novel robotic catheter manipulating system. , 2012, , .		6
42	Development of force sensing systems for a novel robotic catheter system. , 2012, , .		8
43	A robotic catheter system with real-time force feedback and monitor. Australasian Physical and Engineering Sciences in Medicine, 2012, 35, 283-289.	1.3	73
44	Controller design for a robotic catheter teleoperation system. , 2012, , .		8
45	Construction of 3D vessel model of the VR Robotic Catheter System. , 2012, , .		3
46	Internet-based robotic catheter surgery systemâ€"System design and performance evaluation. , 2012, , .		4
47	Design and kinematic analysis of a workspace adjustable micro-manipulator. , 2011, , .		0
48	Development of a PID controller for a novel robotic catheter system. , 2011, , .		11
49	Characteristics evaluation of the novel robotic catheter system. , 2011, , .		11
50	Feasibility study for a novel robotic catheter system. , 2011, , .		10
51	Development of a novel robot-assisted catheter system with force feedback. , 2011, , .		10
52	Development of a kind of robotic catheter manipulation system. , 2011, , .		36
53	Design and simulation of a MRAC controller for a human-scale tele-operating system. , 2011, , .		4
54	A force display method for a novel catheter operating system. , 2010, , .		9

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55	Danger avoiding method based-a novel catheter operating system. , 2010, , .		6
56	Control modeling of a micro-manipulator for human scale tele-operation system. , 2010, , .		2
57	A novel type of catheter operating system with force monitoring. , 2010, , .		4
58	Development of a catheter operating system for medical applications. , 2010, , .		2
59	Path-planning of underwater microrobot in 3-D space using spiral particle pathway searching approach. , 2009, , .		3
60	Control and experimental results of a catheter operating system. , 2009, , .		7
61	Kinematic analysis of a 6-DOF parallel mechanism for human-scale teleoperation system. , 2009, , .		1
62	The simulation and the design of a 6-DOF parallel micromechanism. , 2008, , .		0