

Toshio Fukuda

List of Publications by Year in descending order

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497
papers

4,462
citations

136950

32
h-index

161849

54
g-index

499
all docs

499
docs citations

499
times ranked

3277
citing authors

#	ARTICLE	IF	CITATIONS
1	Holographic Display-Based Control for High-Accuracy Photolithography of Cellular Micro-Scaffold With Heterogeneous Architecture. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1117-1127.	5.8	3
2	Controllable Melting and Flow of Ag in Self-Formed Amorphous Carbonaceous Shell for Nanointerconnection. Micromachines, 2022, 13, 213.	2.9	1
3	Bio-inspired engineering of a perfusion culture platform for guided three-dimensional nerve cell growth and differentiation. Lab on A Chip, 2022, 22, 1006-1017.	6.0	13
4	Development of a Small-Sized Quadruped Robotic Rat Capable of Multimodal Motions. IEEE Transactions on Robotics, 2022, 38, 3027-3043.	10.3	28
5	Electrically Controlled Aquatic Soft Actuators with Desynchronized Actuation and Light-Mediated Reciprocal Locomotion. ACS Applied Materials & Interfaces, 2022, 14, 12936-12948.	8.0	13
6	Noncontact 3-D Orientation Control at Microscale: Hydrodynamic Out-of-Plane Rotation and In-Plane Rotation by Compacted Rotational Stage. IEEE/ASME Transactions on Mechatronics, 2022, 27, 4807-4818.	5.8	4
7	Accurate modulation of photoprinting under stiffness imaging feedback for engineering ECMs with high-fidelity mechanical properties. Microsystems and Nanoengineering, 2022, 8, .	7.0	3
8	Learning Rat-Like Behavior for a Small-Scale Biomimetic Robot. Engineering, 2022, 17, 232-243.	6.7	3
9	A Motion Generation Strategy of Robotic Rat Using Imitation Learning for Behavioral Interaction. IEEE Robotics and Automation Letters, 2022, 7, 7351-7358.	5.1	3
10	A Small-Scale, Rat-Inspired Whisker Sensor for the Perception of a Biomimetic Robot: Design, Fabrication, Modeling, and Experimental Characterization. IEEE Robotics and Automation Magazine, 2022, 29, 115-126.	2.0	2
11	Bioinspired, Multifunctional, Active Whisker Sensors for Tactile Sensing of Mobile Robots. IEEE Robotics and Automation Letters, 2022, 7, 9565-9572.	5.1	3
12	Fabrication of PEDOT:PSS based Soft Sensor for Feedback Control of Modular Bio-actuator. , 2022, , .		0
13	Research and development of the suction component for gripping various surfaces. Transactions of the JSME (in Japanese), 2021, 87, 20-00037-20-00037.	0.2	0
14	Ionic shape-morphing microrobotic end-effectors for environmentally adaptive targeting, releasing, and sampling. Nature Communications, 2021, 12, 411.	12.8	87
15	Texture Classification of a Miniature Whisker Sensor with Varied Contact Pose. Communications in Computer and Information Science, 2021, , 517-526.	0.5	0
16	A tetrahedral DNA nanorobot with conformational change in response to molecular trigger. Nanoscale, 2021, 13, 15552-15559.	5.6	15
17	Development of Cultured Muscles with Tendon Structures for Modular Bio-Actuators. Micromachines, 2021, 12, 379.	2.9	10
18	Guest Editorial Focused Section on Mechatronics in Unmanned Systems. IEEE/ASME Transactions on Mechatronics, 2021, 26, 595-599.	5.8	0

#	ARTICLE	IF	CITATIONS
19	Implementing Rat-Like Motion for a Small-Sized Biomimetic Robot Based on Extraction of Key Movement Joints. IEEE Transactions on Robotics, 2021, 37, 747-762.	10.3	24
20	Large-scale Surface Shape Sensing with Learning-Based Computational Mechanics. Advanced Intelligent Systems, 2021, 3, 2100089.	6.1	6
21	Development of Adaptive Fuzzy-Neuro Generalized Learning-Vector Quantization Using PI Membership Function (AFNGLVQ-PI). IEEE Access, 2021, 9, 47452-47480.	4.2	2
22	Micro Robotic Manipulation System for the Force Stimulation of Muscle Fiber-like Cell Structure. , 2021, , .		1
23	Biped Walking of Magnetic Microrobot in Oscillating Field for Indirect Manipulation of Non-Magnetic Objects. IEEE Nanotechnology Magazine, 2020, 19, 21-24.	2.0	12
24	Permeable hollow 3D tissue-like constructs engineered by on-chip hydrodynamic-driven assembly of multicellular hierarchical micromodules. Acta Biomaterialia, 2020, 113, 328-338.	8.3	12
25	On-Chip Fabrication of Cell-Attached Microstructures using Photo-Cross-Linkable Biodegradable Hydrogel. Journal of Functional Biomaterials, 2020, 11, 18.	4.4	6
26	Magnetically Actuated Pick-and-place Operations of Cellular Micro-rings for High-speed Assembly of Micro-scale Biological Tube. , 2020, , .		0
27	Stable camera position control of unmanned aerial vehicle with three-degree-of-freedom manipulator for visual test of bridge inspection. Journal of Field Robotics, 2019, 36, 1212-1221.	6.0	17
28	Guest Editorial Neuro-Robotics Systems: Sensing, Cognition, Learning, and Control. IEEE Transactions on Cognitive and Developmental Systems, 2019, 11, 145-147.	3.8	8
29	Design and Characterization of a 16-DOFs Nanorobotic Manipulation System for Repetitive and Pre-Programmable Tasks. IEEE Nanotechnology Magazine, 2019, 18, 1208-1212.	2.0	3
30	Contact Annealing for Self-Soldering: In Situ Investigation into Interfaces between PVP-Coated Silver Nanoelectrodes and Carbon Nanotubes. ACS Applied Materials & Interfaces, 2019, 11, 36035-36043.	8.0	2
31	Magnetic Micromachine Using Nickel Nanoparticles for Propelling and Releasing in Indirect Assembly of Cell-Laden Micromodules. Micromachines, 2019, 10, 370.	2.9	11
32	3D Construction of Shape-Controllable Tissues through Self-Bonding of Multicellular Microcapsules. ACS Applied Materials & Interfaces, 2019, 11, 22950-22961.	8.0	18
33	Multicellular Co-Culture in Three-Dimensional Gelatin Methacryloyl Hydrogels for Liver Tissue Engineering. Molecules, 2019, 24, 1762.	3.8	34
34	Identification of Rat Ultrasonic Vocalizations from Mix Sounds of a Robotic Rat in a Noisy Environment. , 2019, , .		0
35	Motion control of nanomanipulation platform based on feedforward compensation inside SEM. , 2019, , .		1
36	Nanorobot assisted self-soldering investigation between PVP-coated silver electrodes and carbon nanotubes. , 2019, , .		0

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37	Automated Sorting of Rare Cells Based on Autofocusing Visual Feedback in Fluorescence Microscopy. , 2019, , .		4
38	Development of an MEMS based biomimetic whisker sensor for tactile sensing. , 2019, , .		5
39	Cooperative Carbon Nanotube Nanomanipulation For Field Effect Transistor. , 2019, , .		0
40	Untethered Micromachines Using Magnetic Nanoparticles for Wireless Assembly of Cell-laden Heterogeneous Micromodules*. , 2019, , .		0
41	On-Chip Construction of Multilayered Hydrogel Microtubes for Engineered Vascular-Like Microstructures. <i>Micromachines</i> , 2019, 10, 840.	2.9	10
42	Notice of Removal: A Disturbance Observer Based Sliding Mode Control for a Class of Underactuated Robotic System With Mismatched Uncertainties. <i>IEEE Transactions on Automatic Control</i> , 2019, 64, 2480-2487.	5.7	162
43	Multifunctional Noncontact Micromanipulation Using Whirling Flow Generated by Vibrating a Single Piezo Actuator. <i>Small</i> , 2019, 15, e1804421.	10.0	34
44	An overview of biomimetic robots with animal behaviors. <i>Neurocomputing</i> , 2019, 332, 339-350.	5.9	72
45	Development of a Highly Compact Microgripper Capable of Online Calibration for Multisized Microobject Manipulation. <i>IEEE Nanotechnology Magazine</i> , 2018, 17, 657-661.	2.0	22
46	Construction of Multilayer Porous Scaffold Based on Magnetically Guided Assembly of Microfiber. <i>Journal of Systems Science and Complexity</i> , 2018, 31, 581-595.	2.8	1
47	Vortex-Driven Rotation for Three-Dimensional Imaging Under Microscopy. <i>IEEE Nanotechnology Magazine</i> , 2018, 17, 688-691.	2.0	10
48	Magnetic alginate microfibers as scaffolding elements for the fabrication of microvascular-like structures. <i>Acta Biomaterialia</i> , 2018, 66, 272-281.	8.3	45
49	Construction of 3D Micro-Tissue Based on Electrodeposition and Robotic Manipulation. , 2018, , .		1
50	Patterned Direct-nanowriting of Metal Nanowires by Using Electron Beam Automatically. , 2018, , .		0
51	Cooperation Method of Symmetrically Distributed Multi-Nanorobotic Manipulators Inside SEM for Nanodevice Constructing. , 2018, , .		3
52	A Miniature Stereo Vision System for a Biomimetic Robotic Rat. , 2018, , .		2
53	3-D Visual Feedback for Automated Sorting of Cells with ultra-low Proportion under Dark Field. , 2018, , .		0
54	Design of Crawling Motion for a Biped Walking Humanoid with 3-DoF Rigid-Flexible Waist. , 2018, , .		5

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55	UAV with Manipulator for Bridge Inspection. Journal of the Robotics Society of Japan, 2018, 36, 57-65.	0.1	6
56	Detection and Compensation of Motion Error for Nanomanipulation Platform in Scanning Electron Microscope. , 2018, , .		0
57	Construction of Hepatic Lobule-Like Vascular Network by Using Magnetic Fields. , 2018, , .		3
58	Stable impact and contact force control by UAV for inspection of floor slab of bridge. Advanced Robotics, 2018, 32, 1061-1076.	1.8	36
59	Design and Online Calibration of a Highly Compact Microgripper. , 2018, , .		0
60	A Modified Robotic Rat to Study Rat-Like Pitch and Yaw Movements. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2448-2458.	5.8	31
61	Hydrodynamic Tweezers: Trapping and Transportation in Microscale Using Vortex Induced by Oscillation of a Single Piezoelectric Actuator. Sensors, 2018, 18, 2002.	3.8	17
62	3D SYSTEM CELL ENGINEERING USING MICROâ€“NANOROBOTICS. , 2018, , 255-273.		0
63	Less-invasive non-embedded cell cutting by nanomanipulation and vibrating nanoknife. Applied Physics Letters, 2017, 110, .	3.3	18
64	Three-dimensional hepatic lobule-like tissue constructs using cell-microcapsule technology. Acta Biomaterialia, 2017, 50, 178-187.	8.3	48
65	Automatic Sample Alignment Under Microscopy for 360° Imaging Based on the Nanorobotic Manipulation System. IEEE Transactions on Robotics, 2017, 33, 220-226.	10.3	36
66	Effects of Three-Dimensional Culture of Mouse Calvaria-Derived Osteoblastic Cells in a Collagen Gel with a Multichannel Structure on the Morphogenesis Behaviors of Engineered Bone Tissues. ACS Biomaterials Science and Engineering, 2017, 3, 3414-3424.	5.2	2
67	Electron beam irradiation induced multi-walled carbon nanotubes fusion. , 2017, , .		0
68	Robotics-based micro-reeling of magnetic microfibers to fabricate helical structure for smooth muscle cells culture. , 2017, , .		4
69	Assembly of RGD-Modified Hydrogel Micromodules into Permeable Three-Dimensional Hollow Microtissues Mimicking in Vivo Tissue Structures. ACS Applied Materials & Interfaces, 2017, 9, 41669-41679.	8.0	50
70	Nanomanipulation of a single carbon nanotube for the fabrication of a field-effect transistor. , 2017, , .		1
71	Light weight manipulator on UAV system for infrastructure inspection. , 2017, , .		6
72	Measurement of two- and three-dimensional viscoelasticity of tissue and artificial organ. , 2017, , .		0

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73	In vitro mimic of hepatic lobule tissue using ca-alginate cell-containing hydrogel modules. , 2017, , .		0
74	Construction of vascular network in 3D cellular structure by using magnetic field. , 2017, , .		1
75	Magnetic self-assembly of toroidal microstructures by shaking. , 2017, , .		0
76	Motion evaluation of a modified multi-link robotic rat. , 2017, , .		5
77	UAV with manipulator for bridge inspection " Hammering system for mounting to UAV. , 2017, , .		7
78	High-precision microinjection of microbeads into C. elegans trapped in a suction microchannel. , 2017, , .		5
79	Electron Beam Irradiation Induced Multiwalled Carbon Nanotubes Fusion inside SEM. Scanning, 2017, 2017, 1-8.	1.5	2
80	Application of Environmental Scanning Electron Microscope-Nanomanipulation System on Spheroplast Yeast Cells Surface Observation. Scanning, 2017, 2017, 1-7.	1.5	6
81	Characterization of the Resistance and Force of a Carbon Nanotube/Metal Side Contact by Nanomanipulation. Scanning, 2017, 2017, 1-11.	1.5	26
82	Non-contact transportation and rotation of micro objects by vibrating glass needle circularly under water. , 2017, , .		2
83	Higher precision rotational manipulation of C. elegans by microchannel. , 2017, , .		0
84	Direct current induced multi-walled carbon nanotubes/graphene layer fusion. , 2017, , .		0
85	System Calibration Towards Automated Nanomanipulation Inside Scanning Electron Microscope. , 2017, , .		1
86	"Z" Shaped Rotational Au/Pt Micro-Nanorobot. Micromachines, 2017, 8, 183.	2.9	14
87	Microrobotic assembly of shape-controllable microstructures to perfusable 3D cell-laden microtissues. , 2017, , .		0
88	Mechatronic Development and Vision Feedback Control of a Nanorobotics Manipulation System inside SEM for Nanodevice Assembly. Sensors, 2016, 16, 1479.	3.8	13
89	Real-time <i>in vitro</i> intravascular reconstruction and navigation for endovascular aortic stent grafting. International Journal of Medical Robotics and Computer Assisted Surgery, 2016, 12, 648-657.	2.3	18
90	ANSHIN enhances social value of service robot. , 2016, , .		2

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91	Carbon nanotubes pickup by van der Waals force based on nanorobotics manipulation inside SEM. <i>Micro and Nano Letters</i> , 2016, 11, 645-649.	1.3	12
92	Automated pick-up of carbon nanotubes inside a scanning electron microscope. , 2016, , .		1
93	Quasi-passive dynamic autonomous control to enhance horizontal and turning gait speed control. , 2016, , .		2
94	Electron beam introduced metallic nanowires growth. , 2016, , .		1
95	Fabrication of dura mater model for medical simulator. , 2016, , .		0
96	Cell sheets fabrication with mimicking morphology of liver lobule tissue by electrodeposition. , 2016, , .		0
97	Generation of swirl flow for non-contact rotation of micro objects by vibrating glass needle. , 2016, , .		0
98	E-SEM CT observation of collagen scaffold cultured osteoblast cells. , 2016, , .		0
99	Vision-based Nano Robotic System for High-throughput Non-embedded Cell Cutting. <i>Scientific Reports</i> , 2016, 6, 22534.	3.3	32
100	Fabrication of brain tumor for medical simulator. , 2016, , .		0
101	Shape-controlled high cell-density microcapsules by electrodeposition. <i>Acta Biomaterialia</i> , 2016, 37, 93-100.	8.3	37
102	Magnetically-guided manipulation of microfiber for fabrication of porous cell scaffold. , 2016, , .		0
103	Non-contact high-speed rotation of micro targets by vibration of single piezoelectric actuator. , 2016, , .		4
104	High-Speed Bioassembly of Cellular Microstructures With Force Characterization for Repeating Single-Step Contact Manipulation. <i>IEEE Robotics and Automation Letters</i> , 2016, 1, 1097-1102.	5.1	3
105	Micromanipulation for Coiling Microfluidic Spun Alginate Microfibers by Magnetically Guided System. <i>IEEE Robotics and Automation Letters</i> , 2016, 1, 808-813.	5.1	8
106	Microbubbles for High-Speed Assembly of Cell-Laden Vascular-Like Microtube. <i>IEEE Robotics and Automation Letters</i> , 2016, 1, 754-759.	5.1	1
107	A Study on Error Recovery Search Strategies of Electronic Connector Mating for Robotic Fault-Tolerant Assembly. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2016, 81, 257-271.	3.4	30
108	Selection of two arm-swing strategies for bipedal walking to enhance both stability and efficiency. <i>Advanced Robotics</i> , 2016, 30, 386-401.	1.8	7

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109	Bacterial sheet-powered rotation of a micro-object. Sensors and Actuators B: Chemical, 2016, 222, 1220-1225.	7.8	6
110	On-chip monitoring of megakaryocytes in shear flow environment. , 2015, , .		0
111	Pilot study on control of one DoF manipulator on quadcopter for hammering check. , 2015, , .		3
112	Survival microinjection into C. elegans with in vivo observation based on micromanipulation. , 2015, , .		1
113	Dual-MWCNT Probe Thermal Sensor Assembly and Evaluation Based on Nanorobotic Manipulation inside a Field-Emission-Scanning Electron Microscope. International Journal of Advanced Robotic Systems, 2015, 12, 21.	2.1	3
114	Hand Gesture Modeling and Recognition for Human and Robot Interactive Assembly Using Hidden Markov Models. International Journal of Advanced Robotic Systems, 2015, 12, 48.	2.1	18
115	The study of valve hybrid fractal stent for the next generation brain intravascular treatment. Transactions of the JSME (in Japanese), 2015, 81, 14-00635-14-00635.	0.2	0
116	3D magnetic assembly of cellular structures with "printing" manipulation by microrobot-controlled microfluidic system. , 2015, , .		3
117	Precise Robotic Assembly Using Passive Alignment Principle. Journal of the Robotics Society of Japan, 2015, 33, 362-369.	0.1	0
118	Behavior modulation of rats to a robotic rat in multi-rat interaction. Bioinspiration and Biomimetics, 2015, 10, 056011.	2.9	24
119	3D cell assembly via anode electrode manipulation. , 2015, , .		0
120	MRI compatibility of lower-extremity motion simulator: LoMS. , 2015, , .		3
121	Design and Control of a Biomimetic Robotic Rat for Interaction With Laboratory Rats. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1832-1842.	5.8	37
122	Electrodeposition of cell-laden alginate-PLL hydrogel structures for spatially selective entrapment. , 2015, , .		3
123	Automated bubble-based assembly of cell-laden microgels into vascular-like microtubes. , 2015, , .		2
124	Automated biomanipulation to assemble cellular microstructure with railed multi-microrobotic system. , 2015, , .		0
125	Measurement of MWCNT/Tungsten contact resistance by bridging CNT on two tungsten electrodes with two manipulators. , 2015, , .		0
126	Passive Alignment Principle for Robotic Assembly between a ring and a shaft with Extremely Narrow Clearance. IEEE/ASME Transactions on Mechatronics, 2015, , 1-1.	5.8	20

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127	Contact characterization between multi-walled carbon nanotubes and metal electrodes. , 2015, , .		4
128	3D microchannel networks by melting alginate hydrogel fibers for cell structures. , 2015, , .		0
129	On-chip fabrication and magnetic force estimation of peapod-like hybrid microfibers using a microfluidic device. Microfluidics and Nanofluidics, 2015, 18, 1177-1187.	2.2	36
130	Energetically Efficient Ladder Descent Motion With Internal Stress and Body Motion Optimized for a Multilocomotion Robot. IEEE Transactions on Industrial Electronics, 2015, 62, 4972-4984.	7.9	3
131	Magnetic assembly of microfluidic spun alginate microfibers for fabricating three-dimensional cell-laden hydrogel constructs. Microfluidics and Nanofluidics, 2015, 19, 1169-1180.	2.2	31
132	Optimal use of arm-swing for bipedal walking control. , 2015, , .		4
133	Fluidic self-assembly of multilayered tubular microstructures by axis translation inside two-layered microfluidic devices. , 2014, , .		1
134	Construction of vascular-like microtubes via fluidic axis-translation self-assembly based on multiple hydrogels. , 2014, , .		2
135	Catheter manipulation training system based on quantitative measurement of catheter insertion and rotation. Advanced Robotics, 2014, 28, 1321-1328.	1.8	5
136	Optimal Subtask Allocation for Human and Robot Collaboration Within Hybrid Assembly System. IEEE Transactions on Automation Science and Engineering, 2014, 11, 1065-1075.	5.2	114
137	Robot imitation learning based on cyber-graphic model. , 2014, , .		0
138	Error recovery strategies for electronic connectors mating in robotic fault-tolerant assembly system. , 2014, , .		1
139	Development of an omnidirectional vision system for environment perception. , 2014, , .		3
140	Vibration damping in manipulation of deformable linear objects using sliding mode control. Advanced Robotics, 2014, 28, 157-172.	1.8	18
141	Bubble-based assembly of micro-tube with coordinated multiple manipulators. , 2014, , .		0
142	Dexterous nanomanipulation of 2D hydrogel microstructure for 3D assembly by multi-robot cooperation. , 2014, , .		0
143	Control of posture and trajectory for a rat-like robot interacting with multiple real rats. , 2014, , .		0
144	Motion Transfer Control From Walking to Brachiation Through Vertical Ladder Climbing for a Multi-Locomotion Robot. IEEE/ASME Transactions on Mechatronics, 2014, 19, 1681-1693.	5.8	13

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145	Self-Actuating Asymmetric Platinum Catalytic Mobile Nanorobot. IEEE Transactions on Robotics, 2014, 30, 33-39.	10.3	26
146	Switching Dynamic Modeling and Driving Stability Analysis of Three-Wheeled Narrow Tilting Vehicle. IEEE/ASME Transactions on Mechatronics, 2014, 19, 1309-1322.	5.8	24
147	Design, Development, and Evaluation of a Pinch-Grasp Haptic Interface. IEEE/ASME Transactions on Mechatronics, 2014, 19, 45-54.	5.8	21
148	A Region of Interest (ROI) Sharing Protocol for Multirobot Cooperation With Distributed Sensing Based on Semantic Stability. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2014, 44, 457-467.	9.3	13
149	On-chip fabrication of magnetic alginate hydrogel microfibers by multilayered pneumatic microvalves. Microfluidics and Nanofluidics, 2014, 17, 457-468.	2.2	21
150	Micro-Assembly of a Vascular-Like Micro-Channel with Railed Micro-Robot Team-Coordinated Manipulation. International Journal of Advanced Robotic Systems, 2014, 11, 115.	2.1	16
151	Application for fractal effect for new brain intravascular treatment. , 2014, , .		0
152	Handling of micro objects using phase transition of thermoresponsive polymer. Journal of Micro-Bio Robotics, 2013, 8, 53-64.	2.1	13
153	Modeling and Velocity Control for a Novel Narrow Vehicle Based on Mobile Wheeled Inverted Pendulum. IEEE Transactions on Control Systems Technology, 2013, 21, 1607-1617.	5.2	101
154	Construction and evaluation of bacteria-driven liposome. Sensors and Actuators B: Chemical, 2013, 183, 395-400.	7.8	40
155	Real-time measurement of the adhesion force by Hybrid System of ESEM and AFM Cantilever. , 2013, , .		0
156	Magnetic manipulation for spatially patterned alginate hydrogel microfibers. , 2013, , .		1
157	Micro-CT imaging of Caenorhabditis elegans under environmental-SEM. , 2013, , .		0
158	Local drug micro-injection to Caenorhabditis elegans with micro-gel beads. , 2013, , .		2
159	Control of intelligent cane robot considering usage of ordinary cane. , 2013, , .		9
160	Fluidic assembly of multilayered tubular microstructures inside 2-layered microfluidic devices. , 2013, , .		0
161	Architectural design of an Autonomous Decentralized System for controlling heterogeneous function multi-robots. , 2013, , .		0
162	Fault detection algorithm for external thread fastening by robotic manipulator using linear support vector machine classifier. , 2013, , .		15

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163	Human-Walking-Intention-Based Motion Control of an Omnidirectional-Type Cane Robot. IEEE/ASME Transactions on Mechatronics, 2013, 18, 285-296.	5.8	157
164	A carbon nanotube vibration gyroscope based on field emission. , 2013, , .		0
165	Assembly of 3D cell-laden constructs based on rail-guided dextrous stick coordination manipulation. , 2013, , .		1
166	In-vitro intravascular simulator with quantitative evaluation for surgical tools used in cerebral aneurysm surgery based on stress analysis. , 2013, , .		0
167	Controlled patterning of magnetic hydrogel microfibers under magnetic tweezers. , 2013, , .		0
168	Cell culture inside thermoresponsive gels towards 3D cell structures. , 2013, , .		0
169	Fabrication of thermoresponsive gel blocks using hysteresis towards cell assembly. , 2013, , .		1
170	Preparation and characterization of magnetic PEGDA beads for enhanced construction of hydrogel assembly. , 2013, , .		0
171	Micro fluidic device to control the position and to analyze the condition of C. elegans as a bioindicator. , 2012, , .		0
172	A simplified minimum enclosing ball based fast incremental support vector machine (SVM) algorithm for person detection and tracking. , 2012, , .		0
173	Modeling and control for UW-Car in rough terrain. , 2012, , .		1
174	Nonlinear SVM based anomaly detection for manipulator assembly task. , 2012, , .		1
175	2-D optical encoding of catheter motion and cyber-physical system for technical skills measurement and quantitative evaluation in endovascular surgery. , 2012, , .		4
176	High speed cell patterning by dielectrophoresis and on-chip fabrication of microstructure embedding patterned cells. , 2012, , .		8
177	Auto nanomanipulation system for single cell mechanical property characterization inside an environmental SEM. , 2012, , .		5
178	The effect of mesh design in cerebral aneurysm hemodynamics for developing flow controllable stent: Computational fluid dynamics study. , 2012, , .		0
179	A genetic algorithm for subtask allocation within human and robot coordinated assembly. , 2012, , .		6
180	Real time posture control for stability improvement of intelligent cane robot. , 2012, , .		3

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181	Fabrication of 3D photo-resistive structure for artificial capillary blood vessel. , 2012, , .		1
182	Optimal load allocation control in ladder environment with contact stiffness considered. , 2012, , .		0
183	Rotation of bacteria sheet driven micro gear in open micro channel. , 2012, , .		1
184	Control of biological clock activity capsulated by lipid-mono-layer. , 2012, , .		0
185	Local nano-injection of fluorescent nano-beads inside <i>C. elegans</i> based on nanomanipulation. , 2012, , .		13
186	Adaptive sliding mode control for manipulating deformable linear object with input saturation. , 2012, , .		7
187	Cyber-physical system for training and skill transfer in endovascular intervention. , 2012, , .		1
188	High speed cell manipulation by dielectrophoresis and movable microstructure embedding cells fabricated inside microfluidic chips. , 2012, , .		1
189	Assembly algorithm for plastic ring with characteristic finger shape. , 2012, , .		1
190	Nanotool exchanger system based on E-SEM nanorobotic manipulation system. , 2012, , .		2
191	Dynamic model of three wheeled narrow tilting vehicle and corresponding experiment verification. , 2012, , .		4
192	Evaluation of bacteria driven micro crank in open micro channel. , 2012, , .		0
193	Transition Motion from Ladder Climbing to Brachiation with Optimal Load-Allocation Control. <i>Advanced Robotics</i> , 2012, 26, 1075-1098.	1.8	6
194	Locomotion selection of Multi-Locomotion Robot based on Falling Risk and moving efficiency. , 2012, , .		5
195	A cyber-physical system for strain measurements in the cerebral aneurysm models. , 2012, , .		1
196	i-Hand: An intelligent robotic hand for fast and accurate assembly in electronic manufacturing. , 2012, , .		8
197	Nano-gyroscope device using field emission of isolated carbon nanotube. , 2012, , .		1
198	Geometry and surface morphology effects for Catalytic Nano-Mobile Robot. , 2012, , .		0

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199	Virtual surgery of γ -configured dual intracranial stent-assisted coil embolization for the treatment of wide-necked basilar tip aneurysm. , 2012, , .		0
200	Intravascular modeling and navigation for stent graft installation based on data fusion between intravascular ultrasound and electromagnetic tracking sensor. , 2012, , .		1
201	Fabrication and self-assembly of movable microstructures embedding cells with concentration control inside microfluidic devices. , 2012, , .		1
202	Dynamic model of three wheeled Narrow Tilting Vehicle and optimal tilt controller design. , 2012, , .		3
203	Catalytic Nano-mobile Robot with finely designed geometry. , 2012, , .		1
204	Nano needle with buffering beam for single cell stiffness measurement by nanorobotic manipulators inside ESEM. , 2012, , .		2
205	Micro-nanomanipulation system toward biological cell analysis and assembly. , 2012, , .		2
206	Instantaneous and Quantitative Single Cells Viability Determination Using Dual Nanoprobe Inside ESEM. IEEE Nanotechnology Magazine, 2012, 11, 298-306.	2.0	30
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