

Xin-Yu Wu

List of Publications by Year in descending order

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187
papers

3,036
citations

159585

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223800

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g-index

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all docs

187
docs citations

187
times ranked

2331
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction of Contralateral Lower-Limb Joint Angles Using Vibroarthrography and Surface Electromyography Signals in Time-Series Network. IEEE Transactions on Automation Science and Engineering, 2023, 20, 901-908.	5.2	8
2	Local Discriminant Subspace Learning for Gas Sensor Drift Problem. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 247-259.	9.3	28
3	Neighborhood Preserving and Weighted Subspace Learning Method for Drift Compensation in Gas Sensor. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 3530-3541.	9.3	12
4	Discrete-Time Optimal Control of Miniature Helical Swimmers in Horizontal Plane. IEEE Transactions on Automation Science and Engineering, 2022, 19, 2267-2277.	5.2	11
5	Gait Phase Classification for a Lower Limb Exoskeleton System Based on a Graph Convolutional Network Model. IEEE Transactions on Industrial Electronics, 2022, 69, 4999-5008.	7.9	19
6	Kinematics study of a 10 degrees-of-freedom lower extremity exoskeleton for crutch-less walking rehabilitation. Technology and Health Care, 2022, 30, 747-755.	1.2	3
7	Design and analysis of a novel 12-DOF self-balancing lower extremity exoskeleton for walking assistance. Mechanism and Machine Theory, 2022, 167, 104519.	4.5	25
8	Touch Modality Identification With Tensorial Tactile Signals: A Kernel-Based Approach. IEEE Transactions on Automation Science and Engineering, 2022, 19, 959-968.	5.2	8
9	Design and analysis of a lightweight lower extremity exoskeleton with novel compliant ankle joints. Technology and Health Care, 2022, 30, 881-894.	1.2	5
10	A Lower Limb Exoskeleton With Rigid and Soft Structure for Loaded Walking Assistance. IEEE Robotics and Automation Letters, 2022, 7, 454-461.	5.1	32
11	A Learning-Based Stable Servo Control Strategy Using Broad Learning System Applied for Microrobotic Control. IEEE Transactions on Cybernetics, 2022, 52, 13727-13737.	9.5	50
12	A Portable Waist-Loaded Soft Exosuit for Hip Flexion Assistance with Running. Micromachines, 2022, 13, 157.	2.9	4
13	Design and Characteristics of 3D Magnetically Steerable Guidewire System for Minimally Invasive Surgery. IEEE Robotics and Automation Letters, 2022, 7, 4040-4046.	5.1	22
14	A Review of Deep Learning in Multiscale Agricultural Sensing. Remote Sensing, 2022, 14, 559.	4.0	63
15	An sEMG based adaptive method for human-exoskeleton collaboration in variable walking environments. Biomedical Signal Processing and Control, 2022, 74, 103477.	5.7	6
16	Multimodal Locomotion Control of Needle-Like Microrobots Assembled by Ferromagnetic Nanoparticles. IEEE/ASME Transactions on Mechatronics, 2022, 27, 4327-4338.	5.8	43
17	Independent Control Strategy of Multiple Magnetic Flexible Millirobots for Position Control and Path Following. IEEE Transactions on Robotics, 2022, 38, 2875-2887.	10.3	75
18	A Robotic System to Deliver Multiple Physically Bimanual Tasks via Varying Force Fields. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 688-698.	4.9	6

#	ARTICLE	IF	CITATIONS
19	A Three-Step Hill Neuromusculoskeletal Model Parameter Identification Method Based on Exoskeleton Robot. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2022, 104, 1.	3.4	3
20	Ensemble learning method based on temporal, spatial features with multi-scale filter banks for motor imagery EEG classification. <i>Biomedical Signal Processing and Control</i> , 2022, 76, 103634.	5.7	10
21	Metric Learning for Robust Gait Phase Recognition for a Lower Limb Exoskeleton Robot Based on sEMG. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2022, 4, 472-479.	3.2	10
22	Hardware Circuits Design and Performance Evaluation of a Soft Lower Limb Exoskeleton. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2022, 16, 384-394.	4.0	9
23	A Power Spectrum Pattern Difference-Based Time-Frequency Sub-Band Selection Method for MI-EEG Classification. <i>IEEE Sensors Journal</i> , 2022, 22, 11928-11939.	4.7	7
24	A Novel Method for Detecting Misclassifications of the Locomotion Mode in Lower-Limb Exoskeleton Robot Control. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 7779-7785.	5.1	4
25	Digital twin rehabilitation system based on self-balancing lower limb exoskeleton. <i>Technology and Health Care</i> , 2022, , 1-13.	1.2	3
26	RNGDet: Road Network Graph Detection by Transformer in Aerial Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-12.	6.3	10
27	Insect-Scale SMAW-Based Soft Robot With Crawling, Jumping, and Loading Locomotion. <i>IEEE Robotics and Automation Letters</i> , 2022, 7, 9287-9293.	5.1	6
28	Self-Supervised Multiscale Adversarial Regression Network for Stereo Disparity Estimation. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 4770-4783.	9.5	27
29	Tactile Surface Roughness Categorization With Multineuron Spike Train Distance. <i>IEEE Transactions on Automation Science and Engineering</i> , 2021, 18, 1835-1845.	5.2	16
30	Online Gait Planning of Lower-Limb Exoskeleton Robot for Paraplegic Rehabilitation Considering Weight Transfer Process. <i>IEEE Transactions on Automation Science and Engineering</i> , 2021, 18, 414-425.	5.2	21
31	3-D Autonomous Manipulation System of Helical Microswimmers With Online Compensation Update. <i>IEEE Transactions on Automation Science and Engineering</i> , 2021, 18, 1380-1391.	5.2	26
32	Sequential Magneto-Actuated and Optics-Triggered Biomicrobots for Targeted Cancer Therapy. <i>Advanced Functional Materials</i> , 2021, 31, 2008262.	14.9	62
33	Voice controlled wheelchair integration rehabilitation training and posture transformation for people with lower limb motor dysfunction. <i>Technology and Health Care</i> , 2021, 29, 609-614.	1.2	5
34	Vision-Assisted Autonomous Lower-Limb Exoskeleton Robot. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021, 51, 3759-3770.	9.3	42
35	Locomotion Mode Identification and Gait Phase Estimation for Exoskeletons During Continuous Multilocomotion Tasks. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2021, 13, 45-56.	3.8	19
36	Development and Evaluation of a Rehabilitation Wheelchair with Multiposture Transformation and Smart Control. <i>Complexity</i> , 2021, 2021, 1-14.	1.6	3

#	ARTICLE	IF	CITATIONS
37	Targeted Cancer Therapy: Sequential Magneto-Actuated and Optics-Triggered Biomicrobots for Targeted Cancer Therapy (Adv. Funct. Mater. 11/2021). Advanced Functional Materials, 2021, 31, 2170074.	14.9	0
38	Multimodal Surface Material Classification Based on Ensemble Learning with Optimized Features. , 2021, , .		0
39	Modeling and Closed-loop Control of Ferromagnetic Nanoparticles Microrobots. , 2021, , .		3
40	Corrigendum to "SIAT-WEXv2: A Wearable Exoskeleton for Reducing Lumbar Load during Lifting Tasks" Complexity, 2021, 2021, 1-1.	1.6	0
41	Effect of Hip Assistance Modes on Metabolic Cost of Walking With a Soft Exoskeleton. IEEE Transactions on Automation Science and Engineering, 2021, 18, 426-436.	5.2	51
42	A Real-Time Stability Control Method Through sEMG Interface for Lower Extremity Rehabilitation Exoskeletons. Frontiers in Neuroscience, 2021, 15, 645374.	2.8	6
43	Tethered and Untethered 3D Microactuators Fabricated by Two-Photon Polymerization: A Review. Micromachines, 2021, 12, 465.	2.9	33
44	A Novel Lightweight Wearable Soft Exosuit for Reducing the Metabolic Rate and Muscle Fatigue. Biosensors, 2021, 11, 215.	4.7	23
45	A Modular Rehabilitation Lower Limb Exoskeleton for Stroke Patients With Hemiplegia. , 2021, , .		1
46	A Framework of Cooperative UAV-UGV System for Target Tracking. , 2021, , .		3
47	Short-Time Fourier Transform Covariance and Selection, A Feature Extraction Method for Binary Motor Imagery Classification. , 2021, , .		1
48	Design and Simulation of a Hip Exoskeleton for Lateral Walking. , 2021, , .		0
49	A soft exosuit for hip extension assistance of the elderly. Technology and Health Care, 2021, 29, 837-841.	1.2	3
50	Time-frequency decomposition-based weighted ensemble learning for motor imagery EEG classification. , 2021, , .		2
51	TactCapsNet: Tactile Capsule Network for Object Hardness Recognition. , 2021, , .		1
52	Impedance Control for a novel Composite Modular Lower-Limb Hemiplegic Exoskeleton. , 2021, , .		0
53	A data-driven shared control system for exoskeleton rehabilitation robot. , 2021, , .		1
54	A Motion Planning Method Based on HRL for Autonomous Exoskeleton. , 2021, , .		0

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55	On-Demand Assembly and Disassembly of a 3D Swimming Magnetic Mini-Propeller With Two Modules. IEEE Robotics and Automation Letters, 2021, 6, 6008-6015.	5.1	6
56	Tactile Grasp Stability Classification Based on Graph Convolutional Networks. , 2021, , .		5
57	Adaptive Admittance Control of Human-Exoskeleton System Using RNN Optimization. , 2021, , .		3
58	Bionic Design of a Self-Reconfigurable Modular Robot for Search and Rescue. , 2021, , .		3
59	A Framework for Human-Exoskeleton Interaction Based on sEMG Interface and Electrotactile Feedback. , 2021, , .		0
60	A Time Division Multiplexing Inspired Lightweight Soft Exoskeleton for Hip and Ankle Joint Assistance. Micromachines, 2021, 12, 1150.	2.9	4
61	A magnetically controlled soft miniature robotic fish with a flexible skeleton inspired by zebrafish. Bioinspiration and Biomimetics, 2021, 16, 065004.	2.9	14
62	Joint Modeling and Closed-Loop Control of a Robotic Hand Driven by the Tendon-Sheath. IEEE Robotics and Automation Letters, 2021, 6, 7333-7340.	5.1	6
63	Automatic Quantification of Subsurface Defects by Analyzing Laser Ultrasonic Signals Using Convolutional Neural Networks and Wavelet Transform. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 3216-3225.	3.0	22
64	Human-in-the-Loop Control of a Wearable Lower Limb Exoskeleton for Stable Dynamic Walking. IEEE/ASME Transactions on Mechatronics, 2021, 26, 2700-2711.	5.8	66
65	Robotic Micromanipulation for Active Pin Alignment in Electronic Soldering Industry. , 2021, , .		2
66	Biomechanical and Physiological Evaluation of a Multi-Joint Exoskeleton with Active-Passive Assistance for Walking. Biosensors, 2021, 11, 393.	4.7	3
67	Motion characteristics and control of magnetic microbeads by magnetic gradient fields. , 2021, , .		0
68	Image-Based Visual Servoing of Helical Microswimmers for Planar Path Following. IEEE Transactions on Automation Science and Engineering, 2020, 17, 325-333.	5.2	94
69	Navigation and Visual Feedback Control for Magnetically Driven Helical Miniature Swimmers. IEEE Transactions on Industrial Informatics, 2020, 16, 477-487.	11.3	31
70	3-D Path Following of Helical Microswimmers With an Adaptive Orientation Compensation Model. IEEE Transactions on Automation Science and Engineering, 2020, 17, 823-832.	5.2	73
71	Reconfiguration, Camouflage, and Color-Shifting for Bioinspired Adaptive Hydrogel-Based Millirobots. Advanced Functional Materials, 2020, 30, 1909202.	14.9	153
72	Centering of a Miniature Rotation Robot for Multi-Directional Imaging Under Microscopy. IEEE Nanotechnology Magazine, 2020, 19, 17-20.	2.0	1

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73	An agglutinate magnetic spray transforms inanimate objects into millirobots for biomedical applications. <i>Science Robotics</i> , 2020, 5, .	17.6	115
74	Iterative Learning Control for a Soft Exoskeleton with Hip and Knee Joint Assistance. <i>Sensors</i> , 2020, 20, 4333.	3.8	34
75	SIAT-WEXv2: A Wearable Exoskeleton for Reducing Lumbar Load during Lifting Tasks. <i>Complexity</i> , 2020, 2020, 1-12.	1.6	13
76	A Novel Motion Intention Recognition Approach for Soft Exoskeleton via IMU. <i>Electronics (Switzerland)</i> , 2020, 9, 2176.	3.1	35
77	Dual Rotating Microsphere Using Robotic Feedforward Compensation Control of Cooperative Flexible Micropipettes. <i>IEEE Transactions on Automation Science and Engineering</i> , 2020, 17, 2004-2013.	5.2	11
78	Development of a lower limb multi-joint assistance soft exosuit. <i>Science China Information Sciences</i> , 2020, 63, 1.	4.3	17
79	Real-time running detection system for UAV imagery based on optical flow and deep convolutional networks. <i>IET Intelligent Transport Systems</i> , 2020, 14, 278-287.	3.0	11
80	Hydrogel-Based Millirobots: Reconfiguration, Camouflage, and Color-Shifting for Bioinspired Adaptive Hydrogel-Based Millirobots (<i>Adv. Funct. Mater.</i> 10/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070064.	14.9	2
81	Distributed Complementary Binary Quantization for Joint Hash Table Learning. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020, 31, 5312-5323.	11.3	7
82	An Optimal Design of an Electromagnetic Actuation System towards a Large Homogeneous Magnetic Field and Accessible Workspace for Magnetic Manipulation. <i>Energies</i> , 2020, 13, 911.	3.1	15
83	Double-Modal Locomotion and Application of Soft Cruciform Thin-Film Microrobot. <i>IEEE Robotics and Automation Letters</i> , 2020, 5, 806-812.	5.1	20
84	A fast parameterized gait planning method for a lower-limb exoskeleton robot. <i>International Journal of Advanced Robotic Systems</i> , 2020, 17, 172988141989322.	2.1	11
85	Magnetic Soft Robot With the Triangular Head-Tail Morphology Inspired By Lateral Undulation. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, 25, 2688-2699.	5.8	43
86	A Manufacturing-Oriented Intelligent Vision System Based on Deep Neural Network for Object Recognition and 6D Pose Estimation. <i>Frontiers in Neurorobotics</i> , 2020, 14, 616775.	2.8	15
87	ROLES OF MAGNETIC STRENGTH IN MAGNETO-ELASTOMER TOWARDS SWIMMING MECHANISM AND PERFORMANCE OF MINIATURE ROBOTS. <i>International Journal of Robotics and Automation</i> , 2020, 35, .	0.1	3
88	Multi-objective Gait Optimizntion of Lower-limb Exoskeleton Robot. , 2020, , .		1
89	A method of cliff detection in robot navigation based on multi-sensor. , 2020, , .		1
90	A Quantifiable Muscle Fatigue Method Based on sEMG during Dynamic Contractions for Lower Limb Exoskeleton. , 2020, , .		2

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91	A Hierarchical Fusion Strategy Based on EEG and sEMG for Human-Exoskeleton System. , 2020, , .		4
92	A DRL-based framework for self-balancing exoskeleton walking. , 2020, , .		3
93	Leveraging Multi-label Correlation for Tactile Adjective Recognition. , 2020, , .		3
94	Design and Implementation of Arch Function for Adaptive Multi-Finger Prosthetic Hand. Sensors, 2019, 19, 3539.	3.8	6
95	Ergonomic Mechanical Design and Assessment of a Waist Assist Exoskeleton for Reducing Lumbar Loads During Lifting Task. Micromachines, 2019, 10, 463.	2.9	25
96	Optimal Sensor Placement for 3-D Time-of-Arrival Target Localization. IEEE Transactions on Signal Processing, 2019, 67, 5018-5031.	5.3	44
97	Development of A Non-Power Waist Assist Device and IEMG-Based Evaluation of Assist Effect. , 2019, , .		1
98	Stable Control Gait Planning Strategy for A Rehabilitation Exoskeleton Robot. , 2019, , .		6
99	Academic Review and Perspectives on Robotic Exoskeletons. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 2294-2304.	4.9	80
100	Real-Time Crop Recognition in Transplanted Fields With Prominent Weed Growth: A Visual-Attention-Based Approach. IEEE Access, 2019, 7, 185310-185321.	4.2	20
101	Visual Servoing of Miniature Magnetic Film Swimming Robots for 3-D Arbitrary Path Following. IEEE Robotics and Automation Letters, 2019, 4, 4185-4191.	5.1	34
102	Development of a novel autonomous lower extremity exoskeleton robot for walking assistance. Frontiers of Information Technology and Electronic Engineering, 2019, 20, 318-329.	2.6	35
103	Dynamic Morphology and Swimming Properties of Rotating Miniature Swimmers With Soft Tails. IEEE/ASME Transactions on Mechatronics, 2019, 24, 924-934.	5.8	79
104	Hydrophobicity Influence on Swimming Performance of Magnetically Driven Miniature Helical Swimmers. Micromachines, 2019, 10, 175.	2.9	15
105	A Trajectory Optimization Algorithm for Drone Target Localization and Tracking. , 2019, , .		0
106	Review of Machine-Vision-Based Plant Detection Technologies for Robotic Weeding. , 2019, , .		8
107	Development of an Adaptive Prosthetic Hand *. , 2019, , .		2
108	Dynamic Obstacle Tracking Based On High-Definition Map In Urban Scene. , 2019, , .		2

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109	GC-IGTC: A Rehabilitation Gait Trajectory Generation Algorithm for Lower Extremity Exoskeleton. , 2019, , .		9
110	Haptic and Visual Enhance-based Motor Imagery BCI for Rehabilitation Lower-Limb Exoskeleton. , 2019, , .		7
111	Stairs Reconstruction with 3D Point Cloud for Gait Generation of Lower Limb Exoskeleton Robot. , 2019, , .		3
112	Wind Power Curve Data Cleaning Algorithm via Image Thresholding. , 2019, , .		8
113	Auto Cable Pretension Method for Soft Exosuit Based on Gait Trajectory Prediction Network. , 2019, , .		3
114	Gait Phase Classification and Assist Torque Prediction for a Lower Limb Exoskeleton System Using Kernel Recursive Least-Squares Method. Sensors, 2019, 19, 5449.	3.8	9
115	Evolution Strategies Learning With Variable Impedance Control for Grasping Under Uncertainty. IEEE Transactions on Industrial Electronics, 2019, 66, 7788-7799.	7.9	42
116	Coordination Control of a Dual-Arm Exoskeleton Robot Using Human Impedance Transfer Skills. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 954-963.	9.3	32
117	A REVIEW ON HUMANâ€™EXOSKELETON COORDINATION TOWARDS LOWER LIMB ROBOTIC EXOSKELETON SYSTEMS. International Journal of Robotics and Automation, 2019, 34, .	0.1	16
118	Movement Control and Attitude Adjustment of Climbing Robot on Flexible Surfaces. IEEE Transactions on Industrial Electronics, 2018, 65, 2618-2628.	7.9	22
119	Manipulation of Lotus-root Fiber Based Soft Helical Microswimmers Using Rotating Gradient Field. , 2018, , .		0
120	Automatic Manipulation of Magnetically Actuated Helical Microswimmers in Static Environments. Micromachines, 2018, 9, 524.	2.9	9
121	The Multiobjective Based Large-Scale Electric Vehicle Charging Behaviours Analysis. Complexity, 2018, 2018, 1-16.	1.6	22
122	A Flexible Lower Extremity Exoskeleton Robot with Deep Locomotion Mode Identification. Complexity, 2018, 2018, 1-9.	1.6	20
123	Nonuniform Illumination Image Segmentation Based on Improved Homomorphic Filtering and Class Uncertainty Theory. , 2018, , .		0
124	Implementation of a Brain-Computer Interface on a Lower-Limb Exoskeleton. IEEE Access, 2018, 6, 38524-38534.	4.2	58
125	Individualized Gait Pattern Generation for Sharing Lower Limb Exoskeleton Robot. IEEE Transactions on Automation Science and Engineering, 2018, 15, 1459-1470.	5.2	78
126	Action Extraction in Continuous Unconstrained Video for Cloud-Based Intelligent Service Robot. IEEE Access, 2018, 6, 33460-33471.	4.2	5

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127	Similar hand gesture recognition by automatically extracting distinctive features. International Journal of Control, Automation and Systems, 2017, 15, 1770-1778.	2.7	9
128	Deep Spatial-Temporal Model for rehabilitation gait: optimal trajectory generation for knee joint of lower-limb exoskeleton. Assembly Automation, 2017, 37, 369-378.	1.7	36
129	Design and control for a compliant knee exoskeleton. , 2017, , .		8
130	Image-based visual servoing of helical microswimmers for arbitrary planar path following at low reynolds numbers. , 2017, , .		11
131	Heterogeneous Sensor Information Fusion based on Kernel Adaptive Filtering for UAVs' Localization. , 2017, , .		2
132	Gait trajectory prediction for lower-limb exoskeleton based on Deep Spatial-Temporal Model (DSTM). , 2017, , .		16
133	An adaptive gait learning strategy for lower limb exoskeleton robot. , 2017, , .		5
134	The HyBrid system with a large workspace towards magnetic micromanipulation within the human head. , 2017, , .		5
135	Swimming Characteristics of Bioinspired Helical Microswimmers Based on Soft Lotus-Root Fibers. Micromachines, 2017, 8, 349.	2.9	18
136	Design and Voluntary Motion Intention Estimation of a Novel Wearable Full-Body Flexible Exoskeleton Robot. Mobile Information Systems, 2017, 2017, 1-11.	0.6	15
137	A Heterogeneous Sensing System-Based Method for Unmanned Aerial Vehicle Indoor Positioning. Sensors, 2017, 17, 1842.	3.8	8
138	A novel inspection robot for nuclear station steam generator secondary side with self-localization. Robotics and Biomimetics, 2017, 4, 26.	1.7	10
139	Sequential Probability Ratio Testing with Power Projective Base Method Improves Decision-Making for BCI. Computational and Mathematical Methods in Medicine, 2017, 2017, 1-10.	1.3	1
140	Gait Phase Recognition for Lower-Limb Exoskeleton with Only Joint Angular Sensors. Sensors, 2016, 16, 1579.	3.8	62
141	Skeletonization using fuzzy distance transform for diffuse reflection structured light. , 2016, , .		0
142	Self-positioning for UAV indoor navigation based on 3D laser scanner, UWB and INS. , 2016, , .		26
143	Deep rehabilitation gait learning for modeling knee joints of lower-limb exoskeleton. , 2016, , .		16
144	Real-time running detection from a moving camera. , 2016, , .		4

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145	Gait phase prediction for lower limb exoskeleton robots. , 2016, , .		12
146	Rotating soft-tail millimeter-scaled swimmers with superhydrophilic or superhydrophobic surfaces. , 2016, , .		7
147	Running person detection from a community patrol robot. , 2016, , .		2
148	Development and experimental evaluation of multi-fingered robot hand with adaptive impedance control for unknown environment grasping. Robotica, 2016, 34, 1168-1185.	1.9	21
149	Biomechatronic design and control of an anthropomorphic artificial hand for prosthetic applications. Robotica, 2016, 34, 2291-2308.	1.9	14
150	Non-binding lower extremity exoskeleton (NextExo) for load-bearing. , 2015, , .		0
151	Real time gait planning for a mobile medical exoskeleton with crutche. , 2015, , .		7
152	Robust localization system for an autonomous mower. , 2015, , .		0
153	The visual location of workpiece based on Hermite Interpolation and mapping for robot arms. , 2015, , .		0
154	Robust dissipative filtering for discrete-time Markov jump Lur'e systems with uncertain transition probability matrix. , 2015, , .		0
155	A real-time dynamic gesture recognition based on 3D trajectories in distinguishing similar gestures. , 2015, , .		3
156	3D reconstruction based on light field information. , 2015, , .		5
157	Online Dynamic Gesture Recognition for Human Robot Interaction. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 77, 583-596.	3.4	52
158	Fingertip Three-Axis Tactile Sensor for Multifingered Grasping. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1875-1885.	5.8	59
159	A Real-Time Human Imitation System Using Kinect. International Journal of Social Robotics, 2015, 7, 587-600.	4.6	43
160	A novel approach for global abnormal event detection in multi-camera surveillance system. , 2015, , .		3
161	Saliency attention based abnormal event detection in video. , 2014, , .		2
162	Dynamic hand gesture early recognition based on Hidden Semi-Markov Models. , 2014, , .		8

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163	Multi-scale analysis of contextual information within spatio-temporal video volumes for anomaly detection. , 2014, , .		7
164	A novel feature extracting method for dynamic gesture recognition based on support vector machine. , 2014, , .		13
165	Rapid pressure-to-flow dynamics of cerebral autoregulation induced by instantaneous changes of arterial CO ₂ . Medical Engineering and Physics, 2014, 36, 1636-1643.	1.7	9
166	Shadow removal for light field images. , 2014, , .		0
167	A 3D object recognition and pose estimation system using deep learning method. , 2014, , .		16
168	Anomaly detection in crowds assisted by scene perspective projection correction. , 2014, , .		2
169	Dynamic gesture recognition using 3D trajectory. , 2014, , .		12
170	Anomaly detection and localization in crowded scenes using short-term trajectories. , 2013, , .		5
171	A novel statistical learning-based framework for automatic anomaly detection and localization in crowds. , 2013, , .		2
172	Online adaptive dictionary learning and weighted sparse coding for abnormality detection. , 2013, , .		11
173	Flexible design of a wearable lower limb exoskeleton robot. , 2013, , .		8
174	Hierarchical activity discovery within spatio-temporal context for video anomaly detection. , 2013, , .		23
175	Low-Rank Affinity Based Local-Driven Multilabel Propagation. Mathematical Problems in Engineering, 2013, 2013, 1-6.	1.1	1
176	HOUSEHOLD SERVICE ROBOT WITH CELLPHONE INTERFACE. International Journal of Information Acquisition, 2013, 09, 1350009.	0.2	1
177	A robotic holder of transcranial doppler probe for CBFV auto-searching. , 2013, , .		2
178	Performability models for designing disaster tolerant Infrastructure-as-a-Service cloud computing systems. , 2013, , .		1
179	Implementation of the path planning algorithm M*. , 2013, , .		1
180	A new approach for hand-waving detection in crowds. , 2013, , .		0

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181	A novel hand posture recognition system based on sparse representation using color and depth images. , 2013, , .		3
182	Rubbot: Rubbing on flexible loose surfaces. , 2013, , .		2
183	A novel design of Tri-star wheeled mobile robot for high obstacle climbing. , 2012, , .		9
184	Stress relief robotic system based on diffused illumination multi-touch technology. , 2012, , .		0
185	Surveillance Robot Utilizing Video and Audio Information. Journal of Intelligent and Robotic Systems: Theory and Applications, 2009, 55, 403-421.	3.4	29
186	REAL-TIME SURVEILLANCE BASED ON HUMAN BEHAVIOR ANALYSIS. International Journal of Information Acquisition, 2005, 02, 353-365.	0.2	6
187	A dual-drive four joint time-sharing control walking power-assisted flexible exoskeleton robot system. Robotica, 0, , 1-12.	1.9	0