Huosheng Hu

List of Publications by Year
in descending order

411 papers	9,928 citations	66343 42 h-index	54911 84 g-index
419 all docs	419 docs citations	419 times ranked	8473 citing authors

#	Article	IF	Citations
1	Myoelectric control systemsâ€"A survey. Biomedical Signal Processing and Control, 2007, 2, 275-294.	5.7	1,013
2	Support Vector Machine-Based Classification Scheme for Myoelectric Control Applied to Upper Limb. IEEE Transactions on Biomedical Engineering, 2008, 55, 1956-1965.	4.2	682
3	Human motion tracking for rehabilitationâ€"A survey. Biomedical Signal Processing and Control, 2008, 3, 1-18.	5.7	634
4	Biological inspiration: From carangiform fish to multi-joint robotic fish. Journal of Bionic Engineering, 2010, 7, 35-48.	5.0	267
5	Multisensor-Based Human Detection and Tracking for Mobile Service Robots. IEEE Transactions on Systems, Man, and Cybernetics, 2009, 39, 167-181.	5.0	259
6	Receding horizon tracking control of wheeled mobile robots. IEEE Transactions on Control Systems Technology, 2006, 14, 743-749.	5.2	205
7	Head gesture recognition for handsâ€free control of an intelligent wheelchair. Industrial Robot, 2007, 34, 60-68.	2.1	187
8	Use of multiple wearable inertial sensors in upper limb motion tracking. Medical Engineering and Physics, 2008, 30, 123-133.	1.7	178
9	Robot Learning from Demonstration in Robotic Assembly: A Survey. Robotics, 2018, 7, 17.	3.5	152
10	The Usefulness of Mean and Median Frequencies in Electromyography Analysis. , 0, , .		150
11	Inertial/magnetic sensors based pedestrian dead reckoning by means of multi-sensor fusion. Information Fusion, 2018, 39, 108-119.	19.1	147
12	Integration of Vision and Inertial Sensors for 3D Arm Motion Tracking in Home-based Rehabilitation. International Journal of Robotics Research, 2007, 26, 607-624.	8.5	130
13	Using Distributed Wearable Sensors to Measure and Evaluate Human Lower Limb Motions. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 939-950.	4.7	125
14	Neural predictive control for a car-like mobile robot. Robotics and Autonomous Systems, 2002, 39, 73-86.	5.1	115
15	Hybrid Path Planning Based on Safe A* Algorithm and Adaptive Window Approach for Mobile Robot in Large-Scale Dynamic Environment. Journal of Intelligent and Robotic Systems: Theory and Applications, 2020, 99, 65-77.	3.4	104
16	A Novel Real-Time Moving Target Tracking and Path Planning System for a Quadrotor UAV in Unknown Unstructured Outdoor Scenes. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 2362-2372.	9.3	98
17	Reducing Drifts in the Inertial Measurements of Wrist and Elbow Positions. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 575-585.	4.7	94
18	Design of 3D Swim Patterns for Autonomous Robotic Fish. , 2006, , .		85

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19	3D mapping with multi-resolution occupied voxel lists. Autonomous Robots, 2010, 28, 169-185.	4.8	85
20	Bio-signal based control in assistive robots: a survey. Digital Communications and Networks, 2015, 1, 85-101.	5.0	84
21	Internetâ€based robotic systems for teleoperation. Assembly Automation, 2001, 21, 143-152.	1.7	82
22	Inertial measurements of upper limb motion. Medical and Biological Engineering and Computing, 2006, 44, 479-487.	2.8	79
23	Using Fuzzy Logic to Design Separation Function in Flocking Algorithms. IEEE Transactions on Fuzzy Systems, 2008, 16, 826-838.	9.8	76
24	Spatial Gaussian Process Regression With Mobile Sensor Networks. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 1279-1290.	11.3	69
25	A Novel Sensing and Data Fusion System for 3-D Arm Motion Tracking in Telerehabilitation. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 1029-1040.	4.7	68
26	3-D-Laser-Based Scene Measurement and Place Recognition for Mobile Robots in Dynamic Indoor Environments. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 438-450.	4.7	68
27	Biologically inspired behaviour design for autonomous robotic fish. International Journal of Automation and Computing, 2006, 3, 336-347.	4.5	67
28	A stabilizing receding horizon regulator for nonholonomic mobile robots. , 2005, 21, 1022-1028.		65
29	A School of Robotic Fish for Mariculture Monitoring in the Sea Coast. Journal of Bionic Engineering, 2015, 12, 37-46.	5.0	65
30	Automatic Generation of Synthetic LiDAR Point Clouds for 3-D Data Analysis. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2671-2673.	4.7	62
31	A review of visual inertial odometry from filtering and optimisation perspectives. Advanced Robotics, 2015, 29, 1289-1301.	1.8	61
32	An analysis of the inverse kinematics for a 5-DOF manipulator. International Journal of Automation and Computing, 2005, 2, 114-124.	4.5	59
33	A complete analytical solution to the inverse kinematics of the Pioneer 2 robotic arm. Robotica, 2005, 23, 123-129.	1.9	59
34	New Fast Fall Detection Method Based on Spatio-Temporal Context Tracking of Head by Using Depth Images. Sensors, 2015, 15, 23004-23019.	3.8	58
35	A 3D simulator for autonomous robotic fish. International Journal of Automation and Computing, 2004, 1, 42-50.	4.5	57
36	GA-based Feature Subset Selection for Myoelectric Classification. , 2006, , .		56

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37	Computationally efficient solutions for tracking people withÂaÂmobile robot: an experimental evaluation of Bayesian filters. Autonomous Robots, 2010, 28, 425-438.	4.8	56
38	A Self-Paced Motor Imagery Based Brain-Computer Interface for Robotic Wheelchair Control. Clinical EEG and Neuroscience, 2011, 42, 225-229.	1.7	56
39	Indoor Relocalization in Challenging Environments With Dual-Stream Convolutional Neural Networks. IEEE Transactions on Automation Science and Engineering, 2018, 15, 651-662.	5.2	56
40	Coordination in multi-agent RoboCup teams. Robotics and Autonomous Systems, 2001, 36, 67-86.	5.1	52
41	Application of Linear Discriminant Analysis in Dimensionality Reduction for Hand Motion Classification. Measurement Science Review, 2012, 12, .	1.0	51
42	Applications of wearable inertial sensors in estimation of upper limb movements. Biomedical Signal Processing and Control, 2006, 1, 22-32.	5.7	50
43	An Integrated GNSS/LiDAR-SLAM Pose Estimation Framework for Large-Scale Map Building in Partially GNSS-Denied Environments. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	4.7	50
44	PCA and deep learning based myoelectric grasping control of a prosthetic hand. BioMedical Engineering OnLine, 2018, 17, 107.	2.7	47
45	Landmarkâ€based navigation of industrial mobile robots. Industrial Robot, 2000, 27, 458-467.	2.1	46
46	EMG-based hands-free wheelchair control with EOG attention shift detection. , 2007, , .		46
47	A novel camera calibration technique based on differential evolution particle swarm optimization algorithm. Neurocomputing, 2016, 174, 456-465.	5.9	46
48	A parallel processing architecture for sensor-based control of intelligent mobile robots. Robotics and Autonomous Systems, 1996, 17, 235-257.	5.1	45
49	Pose estimation-dependent identification method for field moth images using deep learning architecture. Biosystems Engineering, 2015, 136, 117-128.	4.3	44
50	A robot calligraphy system: From simple to complex writing by human gestures. Engineering Applications of Artificial Intelligence, 2017, 59, 1-14.	8.1	44
51	Formation Control for a Fleet of Autonomous Ground Vehicles: A Survey. Robotics, 2018, 7, 67.	3.5	44
52	RGB-DI Images and Full Convolution Neural Network-Based Outdoor Scene Understanding for Mobile Robots. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 27-37.	4.7	44
53	Inertial sensors for motion detection of human upper limbs. Sensor Review, 2007, 27, 151-158.	1.8	43
54	An optimization based Moving Horizon Estimation with application to localization of Autonomous Underwater Vehicles. Robotics and Autonomous Systems, 2014, 62, 1581-1596.	5.1	43

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55	The CarTel mobile sensor computing system. , 2006, , .		42
56	Developing and testing a telerehabilitation system for people following stroke: issues of usability. Journal of Engineering Design, 2010, 21, 223-236.	2.3	42
57	Co-Adaptive and Affective Human-Machine Interface for Improving Training Performances of Virtual Myoelectric Forearm Prosthesis. IEEE Transactions on Affective Computing, 2012, 3, 285-297.	8.3	42
58	Stability analysis of token-based wireless networked control systems under deception attacks. Information Sciences, 2018, 459, 168-182.	6.9	42
59	A bayesian approach to real-time obstacle avoidance for a mobile robot. Autonomous Robots, 1994, 1, 69-92.	4.8	38
60	Dynamic global path planning with uncertainty for mobile robots in manufacturing. IEEE Transactions on Automation Science and Engineering, 1997, 13, 760-767.	2.3	37
61	Building Novel VHF-Based Wireless Sensor Networks for the Internet of Marine Things. IEEE Sensors Journal, 2018, 18, 2131-2144.	4.7	37
62	Robotic Dance in Social Roboticsâ€"A Taxonomy. IEEE Transactions on Human-Machine Systems, 2015, 45, 281-293.	3.5	36
63	Towards autonomous localization and mapping of AUVs: a survey. International Journal of Intelligent Unmanned Systems, 2013, 1, 97-120.	1.0	35
64	A Hybrid Control Architecture for Autonomous Robotic Fish. , 2006, , .		34
65	Vision and Laser Data Fusion for Tracking People with a Mobile Robot. , 2006, , .		34
66	An interactive Internet-based system for tracking upper limb motion in home-based rehabilitation. Medical and Biological Engineering and Computing, 2008, 46, 241-249.	2.8	34
67	Manifestation of fatigue in myoelectric signals of dynamic contractions produced during playing PC games. , 2008, 2008, 315-8.		34
68	Inertial motion tracking of human arm movements in stroke rehabilitation. , 0, , .		33
69	Toward Intelligent Security Robots: A Survey. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2012, 42, 1219-1230.	2.9	33
70	A preliminary study assessing time-domain EMG features of classifying exercises in preventing falls in the elderly. , 2012, , .		32
71	Distributed agent architecture for port automation. , 0, , .		30
72	Head movements based control of an intelligent wheelchair in an indoor environment. , 2012, , .		30

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73	iSplash-I: High performance swimming motion of a carangiform robotic fish with full-body coordination. , 2014, , .		30
74	Automatic Extrinsic Self-Calibration for Fusing Data From Monocular Vision and 3-D Laser Scanner. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 1874-1876.	4.7	29
75	Novel mechatronics design for a robotic fish. , 2005, , .		28
76	A model predictive controller for robots to follow a virtual leader. Robotica, 2009, 27, 905-913.	1.9	27
77	Biologically Inspired Robotics. Journal of Robotics, 2015, 2015, 1-2.	0.9	27
78	Adaptive schemes applied to online SVM for BCI data classification. , 2009, 2009, 2600-3.		25
79	iSplash-II: Realizing fast carangiform swimming to outperform a real fish. , 2014, , .		25
80	Extracting Semantic Information from Visual Data: A Survey. Robotics, 2016, 5, 8.	3.5	25
81	Robot-Assisted Crowd Evacuation under Emergency Situations: A Survey. Robotics, 2017, 6, 8.	3.5	25
82	Modeling and stability analysis of greyâ€“fuzzy predictive control. Neurocomputing, 2008, 72, 197-202.	5.9	24
83	A novel humanâ€“machine interface based on recognition of multi-channel facial bioelectric signals. Australasian Physical and Engineering Sciences in Medicine, 2011, 34, 497-513.	1.3	24
84	iSplash: Realizing Fast Carangiform Swimming to Outperform a Real Fish. Springer Tracts in Mechanical Engineering, 2015, , 193-218.	0.3	23
85	Adaptive Obstacle Detection for Mobile Robots in Urban Environments Using Downward-Looking 2D LiDAR. Sensors, 2018, 18, 1749.	3.8	23
86	Reinforcement learning control for the swimming motions of a beaver-like, single-legged robot based on biological inspiration. Robotics and Autonomous Systems, 2022, 154, 104116.	5.1	23
87	Building an Omnidirectional 3-D Color Laser Ranging System Through a Novel Calibration Method. IEEE Transactions on Industrial Electronics, 2019, 66, 8821-8831.	7.9	22
88	Use of Automatic Chinese Character Decomposition and Human Gestures for Chinese Calligraphy Robots. IEEE Transactions on Human-Machine Systems, 2019, 49, 47-58.	3.5	22
89	Use of forehead bio-signals for controlling an Intelligent Wheelchair. , 2009, , .		21
90	A Bank of Unscented Kalman Filters for Multimodal Human Perception with Mobile Service Robots. International Journal of Social Robotics, 2010, 2, 121-136.	4.6	21

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91	A Method for Detecting Abnormal Program Behavior on Embedded Devices. IEEE Transactions on Information Forensics and Security, 2015, 10, 1692-1704.	6.9	21
92	Autonomous Flight Control for Multi-Rotor UAVs Flying at Low Altitude. IEEE Access, 2019, 7, 42614-42625.	4.2	21
93	A Hybrid Software Platform for Sony AIBO Robots. Lecture Notes in Computer Science, 2004, , 478-486.	1.3	21
94	Multisensor data fusion for joint people tracking and identification with a service robot. , 2007, , .		20
95	EMG and visual based HMI for hands-free control of an intelligent wheelchair. , 2010, , .		20
96	Mobile sensor networks for modelling environmental pollutant distribution. International Journal of Systems Science, 2011, 42, 1491-1505.	5.5	20
97	Coordination of multiple mobile robots via communication. , 1999, 3525, 94.		19
98	Application of mobile agents to robust teleoperation of internet robots in nuclear decommissioning. , 0, , .		19
99	Mimicry of Sharp Turning Behaviours in a Robotic Fish. , 0, , .		19
100	Action classification of 3D human models using dynamic ANNs for mobile robot surveillance. , 2007, , .		19
101	Ubiquitous robotics in physical human action recognition: A comparison between dynamic ANNs and GP. , 2008, , .		19
102	3-D Laser-Based Multiclass and Multiview Object Detection in Cluttered Indoor Scenes. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 177-190.	11.3	19
103	An adaptive neural network approach to the tracking control of micro aerial vehicles in constrained space. International Journal of Systems Science, 2017, 48, 84-94.	5.5	19
104	Interaction Modalities Used on Serious Games for Upper Limb Rehabilitation: A Systematic Review. Games for Health Journal, 2019, 8, 313-325.	2.0	19
105	Multimodal Information Fusion for Automatic Aesthetics Evaluation of Robotic Dance Poses. International Journal of Social Robotics, 2020, 12, 5-20.	4.6	19
106	A self-paced online BCI for mobile robot control. International Journal of Advanced Mechatronic Systems, 2010, 2, 28.	0.2	18
107	Underwater Localization and Environment Mapping Using Wireless Robots. Wireless Personal Communications, 2013, 70, 1147-1170.	2.7	18
108	RBPF-MSIS: Toward Rao-Blackwellized Particle Filter SLAM for Autonomous Underwater Vehicle With Slow Mechanical Scanning Imaging Sonar. IEEE Systems Journal, 2020, 14, 3301-3312.	4.6	18

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109	Distributed network-based formation control. International Journal of Systems Science, 2009, 40, 539-552.	5.5	17
110	Classification of Upper Limb Motion Trajectories Using Shape Features. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2012, 42, 970-982.	2.9	17
111	EKF Based Mobile Robot Localization. , 2012, , .		17
112	Machine Vision Based Production Condition Classification and Recognition for Mineral Flotation Process Monitoring. International Journal of Computational Intelligence Systems, 2013, 6, 969.	2.7	17
113	Cooperative localization of AUVs using moving horizon estimation. IEEE/CAA Journal of Automatica Sinica, 2014, 1, 68-76.	13.1	17
114	Improving Localization Accuracy for an Underwater Robot With a Slow-Sampling Sonar Through Graph Optimization. IEEE Sensors Journal, 2015, 15, 5024-5035.	4.7	17
115	Cascaded control for balancing an inverted pendulum on a flying quadrotor. Robotica, 2017, 35, 1263-1279.	1.9	17
116	Using Unsupervised Deep Learning Technique for Monocular Visual Odometry. IEEE Access, 2019, 7, 18076-18088.	4.2	17
117	Semantic Scene Mapping with Spatio-temporal Deep Neural Network for Robotic Applications. Cognitive Computation, 2018, 10, 260-271.	5.2	17
118	A modular computing architecture for autonomous robots. Microprocessors and Microsystems, 1998, 21, 349-361.	2.8	16
119	IMU/GPS based pedestrian localization. , 2012, , .		16
120	Visual Imaging of Invisible Hazardous Substances Using Bacterial Inspiration. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 1105-1115.	9.3	16
121	OctreeNet: A Novel Sparse 3-D Convolutional Neural Network for Real-Time 3-D Outdoor Scene Analysis. IEEE Transactions on Automation Science and Engineering, 2020, 17, 735-747.	5.2	16
122	Application of wearable inertial sensors in stroke rehabilitation. , 2005, 2005, 6825-8.		15
123	Mobile agent approach to networked robots. International Journal of Advanced Manufacturing Technology, 2006, 30, 979-987.	3.0	15
124	Ant Robotic Swarm for Visualizing Invisible Hazardous Substances. Robotics, 2013, 2, 1-18.	3.5	15
125	A Novel Trail Detection and Scene Understanding Framework for a Quadrotor UAV With Monocular Vision. IEEE Sensors Journal, 2017, 17, 6778-6787.	4.7	15
126	Application of Augmented Reality and Robotic Technology in Broadcasting: A Survey. Robotics, 2017, 6, 18.	3.5	15

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127	Multi-sensor based attitude prediction for agricultural vehicles. Computers and Electronics in Agriculture, 2019, 156, 24-32.	7.7	15
128	A Single-legged Robot Inspired by the Jumping Mechanism of Click Beetles and Its Hopping Dynamics Analysis. Journal of Bionic Engineering, 2020, 17, 1109-1125.	5.0	15
129	Lightweight Attention Module for Deep Learning on Classification and Segmentation of 3-D Point Clouds. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	15
130	Integration of Coordination Architecture and Behavior Fuzzy Learning in Quadruped Walking Robots. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2007, 37, 670-681.	2.9	14
131	FUSING EMG AND VISUAL DATA FOR HANDS-FREE CONTROL OF AN INTELLIGENT WHEELCHAIR. International Journal of Humanoid Robotics, 2011, 08, 707-724.	1.1	14
132	Ambulatory estimation of 3D walking trajectory and knee joint angle using MARG Sensors. , 2014, , .		14
133	Using Scale Coordination and Semantic Information for Robust 3-D Object Recognition by a Service Robot. IEEE Sensors Journal, 2015, 15, 37-47.	4.7	14
134	Autonomous Robotic Choreography Creation via Semi-interactive Evolutionary Computation. International Journal of Social Robotics, 2016, 8, 649-661.	4.6	14
135	Adaptive Neuro-Filtering Based Visual Servo Control of a Robotic Manipulator. IEEE Access, 2019, 7, 76891-76901.	4.2	14
136	Unsupervised framework for depth estimation and camera motion prediction from video. Neurocomputing, 2020, 385, 169-185.	5.9	14
137	Distributed Real-Time Control of a Mobile Robot. Intelligent Automation and Soft Computing, 1995, 1, 63-83.	2.1	13
138	A MODULAR ARCHITECTURE FOR HUMANOID SOCCER ROBOTS WITH DISTRIBUTED BEHAVIOR CONTROL. International Journal of Humanoid Robotics, 2008, 05, 397-416.	1.1	13
139	Coping with uncertainty in control and planning for a mobile robot. , 0, , .		12
140	Reactive behaviours and agent architecture for Sony legged robots to play football. Industrial Robot, 2001, 28, 45-54.	2.1	12
141	Building a 3D simulator for autonomous navigation of robotic fishes. , 0, , .		12
142	An Embedded Control System for Intelligent Wheelchair. , 2005, 2005, 5036-9.		12
143	A novel bio-controller for localizing pollution sources in a medium peclet environment. Journal of Bionic Engineering, 2010, 7, 345-353.	5.0	12
144	Doorway passing of an intelligent wheelchair by dynamically generating Bézier curve trajectory. , 2012, , .		12

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145	Bézier curve based trajectory planning for an intelligent wheelchair to pass a doorway. , 2012, , .		12
146	Towards ROS Based Multi-robot Architecture for Ambient Assisted Living. , 2013, , .		12
147	Decentralised control for complex systems - an invited survey. International Journal of Modelling, Identification and Control, 2014, 22, 285.	0.2	12
148	Feature fusion based automatic aesthetics evaluation of robotic dance poses. Robotics and Autonomous Systems, 2019, 111, 99-109.	5.1	12
149	Reinforcement learning and co-operation in a simulated multi-agent system. , 0, , .		11
150	A Web-based telerobotic system for research and education at Essex. , 0, , .		11
151	Study on adaptive kalman filtering algorithms in human movement tracking. , 0, , .		11
152	Data management in the CarTel mobile sensor computing system. , 2006, , .		11
153	Towards human-friendly efficient control of multi-robot teams. , 2013, , .		11
154	A novel outdoor scene-understanding framework for unmanned ground vehicles with 3D laser scanners. Transactions of the Institute of Measurement and Control, 2015, 37, 435-445.	1.7	11
155	LIDAR Point Cloud Registration for Sensing and Reconstruction of Unstructured Terrain. Applied Sciences (Switzerland), 2018, 8, 2318.	2.5	11
156	A novel data-driven rollover risk assessment for articulated steering vehicles using RNN. Journal of Mechanical Science and Technology, 2020, 34, 2161-2170.	1.5	11
157	A novel vehicle tracking and speed estimation with varying UAV altitude and video resolution. International Journal of Remote Sensing, 2021, 42, 4441-4466.	2.9	11
158	Evolving Fuzzy Logic Controllers for Sony Legged Robots. Lecture Notes in Computer Science, 2002, , 356-361.	1.3	11
159	KaBaGe-RL: Kanerva-based generalisation and reinforcement learning for possession football. , 0, , .		10
160	GA-based learning in behaviour based robotics. , 0, , .		10
161	People Tracking and Identification with a Mobile Robot. , 2007, , .		10
162	Application of Support Vector Machines in upper limb motion classification using myoelectric signals. , 2007, , .		10

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163	Exploiting bacteria swarms for pollution mapping. , 2009, , .		10
164	Investigation of Properties of ICmetrics Features. , 2012, , .		10
165	Automatic user identification by using forearm biometrics. , 2013, , .		10
166	Resilience against brute force and rainbow table attacks using strong ICMetrics session key pairs. , 2013, , .		10
167	Collaborative control of UAV/UGV. , 2014, , .		10
168	Lateral stability simulation and analysis for wheel loaders based on the steady-state margin angle. International Journal of Modelling, Identification and Control, 2014, 22, 185.	0.2	10
169	A Computer-Aided Modeling and Measurement System for Environmental Thermal Comfort Sensing. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 478-486.	4.7	10
170	Single Beacon based Localization with Constraints and Unknown Initial Poses. IEEE Transactions on Industrial Electronics, 2015, , 1-1.	7.9	10
171	Enhanced Robotic Handâ€"Eye Coordination Inspired From Human-Like Behavioral Patterns. IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 384-396.	3.8	10
172	Landmark-based navigation of mobile robots in manufacturing. , 0, , .		9
173	Hybrid learning architecture for fuzzy control of quadruped walking robots. International Journal of Intelligent Systems, 2005, 20, 131-152.	5.7	9
174	A Novel Linear Recurrent Neural Network for Multivariable System Identification. Transactions of the Institute of Measurement and Control, 2006, 28, 229-242.	1.7	9
175	Cooperative Mutual 3D Laser Mapping and Localization. , 2006, , .		9
176	A Methodology of Modelling Fish-like Swim Patterns for Robotic Fish. , 2007, , .		9
177	3D Laser range scanner with hemispherical field of view for robot navigation. , 2008, , .		9
178	BIO-INSPIRED COVERAGE OF INVISIBLE HAZARDOUS SUBSTANCES IN THE ENVIRONMENT. International Journal of Information Acquisition, 2010, 07, 193-204.	0.2	9
179	Bacteria controller implementation on a physical platform for pollution monitoring. , 2010, , .		9
180	Single beacon based localization of AUVs using moving Horizon estimation. , 2013, , .		9

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181	iSplash-MICRO: A 50mm robotic fish generating the maximum velocity of real fish. , 2014, , .		9
182	Robotic Choreography Inspired by the Method of Human Dance Creation. Information (Switzerland), 2018, 9, 250.	2.9	9
183	Multi-Sensor Based Online Attitude Estimation and Stability Measurement of Articulated Heavy Vehicles. Sensors, 2018, 18, 212.	3.8	9
184	Indoor Topological Localization Based on a Novel Deep Learning Technique. Cognitive Computation, 2020, 12, 528-541.	5.2	9
185	Multiple Visual Feature Integration Based Automatic Aesthetics Evaluation of Robotic Dance Motions. Information (Switzerland), 2021, 12, 95.	2.9	9
186	Memory-Augmented Point Cloud Registration Network for Bucket Pose Estimation of the Intelligent Mining Excavator. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	4.7	9
187	A transputer-based system for locating parts and controlling an industrial robot. Robotica, 1990, 8, 97-103.	1.9	8
188	Evolving locomotion gaits for quadruped walking robots. Industrial Robot, 2005, 32, 259-267.	2.1	8
189	Fast Circular Landmark Detection for Cooperative Localisation and Mapping. , 0, , .		8
190	A Multi-Agent System for Distributed Control of Networked Mobile Robots. Measurement and Control, 2005, 38, 314-319.	1.8	8
191	Nonsingular formation control of cooperative mobile robots via feedback linearization. , 2005, , .		8
192	Novel two-step filtering scheme for a logging-while-drilling system. Computer Physics Communications, 2009, 180, 1566-1571.	7.5	8
193	Active shape model-based user identification for an intelligent wheelchair. International Journal of Advanced Mechatronic Systems, 2009, 1, 299.	0.2	8
194	Evaluating the performance of a face movement based wheelchair control interface in an indoor environment. , 2010, , .		8
195	Real-time landmark modelling for visual-guided walking robots. International Journal of Computer Applications in Technology, 2011, 41, 253.	0.5	8
196	Robotics â€" Inspired from Nature. Robotics, 2012, 1, 1-2.	3.5	8
197	Application of ICmetrics for Embedded System Security. , 2013, , .		8
198	Multi-layered map based navigation and interaction for an intelligent wheelchair. , 2013, , .		8

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199	A Scheme for the Generation of Strong ICMetrics Based Session Key Pairs for Secure Embedded System Applications. , 2013, , .		8
200	Diverse replenishment frequency model for TOC supply chain replenishment systems with capacity constraints. International Journal of Modelling, Identification and Control, 2013, 19, 248.	0.2	8
201	Biologically-inspired behaviour based robotics for making invisible pollution visible: a survey. Advanced Robotics, 2014, 28, 271-288.	1.8	8
202	Linear perspective shape-from-shading method with two images. Journal of Systems Engineering and Electronics, 2015, 26, 1080-1087.	2.2	8
203	Robot Performing Peg-in-Hole Operations by Learning from Human Demonstration. , 2018, , .		8
204	Using Stacked Sparse Auto-Encoder and Superpixel CRF for Long-Term Visual Scene Understanding of UGVs. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 1331-1342.	9.3	8
205	Creating a Computable Cognitive Model of Visual Aesthetics for Automatic Aesthetics Evaluation of Robotic Dance Poses. Symmetry, 2020, 12, 23.	2.2	8
206	The effects of the force of contraction and elbow joint angle on mean and median frequency analysis for muscle fatigue evaluation. ScienceAsia, 2015, 41, 263.	0.5	8
207	A Flexible Bio-Signal Based HMI for Hands-Free Control of an Electric Powered Wheelchair. International Journal of Artificial Life Research, 2014, 4, 59-76.	0.1	8
208	Free Weight Exercises Recognition Based on Dynamic Time Warping of Acceleration Data. Communications in Computer and Information Science, 2013, , 178-185.	0.5	8
209	Multilevel Ground Segmentation for 3-D Point Clouds of Outdoor Scenes Based on Shape Analysis. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-13.	4.7	8
210	Wavelet neural network based predictive control for mobile robots. , 0, , .		7
211	A hybrid evolutionary algorithm for gait generation of Sony legged robots. , 0, , .		7
212	Fuzzy multi-agent cooperative q-learning. , 0, , .		7
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