Huosheng Hu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/381431/publications.pdf

Version: 2024-02-01

411 papers	9,928 citations	66234 42 h-index	54797 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.	3.5	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.	2.5	682
3	Human motion tracking for rehabilitationâ€"A survey. Biomedical Signal Processing and Control, 2008, 3, 1-18.	3.5	634
4	Biological inspiration: From carangiform fish to multi-joint robotic fish. Journal of Bionic Engineering, 2010, 7, 35-48.	2.7	267
5	Multisensor-Based Human Detection and Tracking for Mobile Service Robots. IEEE Transactions on Systems, Man, and Cybernetics, 2009, 39, 167-181.	5.5	259
6	Receding horizon tracking control of wheeled mobile robots. IEEE Transactions on Control Systems Technology, 2006, 14, 743-749.	3.2	205
7	Head gesture recognition for handsâ€free control of an intelligent wheelchair. Industrial Robot, 2007, 34, 60-68.	1.2	187
8	Use of multiple wearable inertial sensors in upper limb motion tracking. Medical Engineering and Physics, 2008, 30, 123-133.	0.8	178
9	Robot Learning from Demonstration in Robotic Assembly: A Survey. Robotics, 2018, 7, 17.	2.1	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.	11.7	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.	5.8	130
13	Using Distributed Wearable Sensors to Measure and Evaluate Human Lower Limb Motions. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 939-950.	2.4	125
14	Neural predictive control for a car-like mobile robot. Robotics and Autonomous Systems, 2002, 39, 73-86.	3.0	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.	2.0	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.	5.9	98
17	Reducing Drifts in the Inertial Measurements of Wrist and Elbow Positions. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 575-585.	2.4	94
18	Design of 3D Swim Patterns for Autonomous Robotic Fish. , 2006, , .		85

#	Article	IF	Citations
19	3D mapping with multi-resolution occupied voxel lists. Autonomous Robots, 2010, 28, 169-185.	3.2	85
20	Bio-signal based control in assistive robots: a survey. Digital Communications and Networks, 2015, 1, 85-101.	2.7	84
21	Internetâ€based robotic systems for teleoperation. Assembly Automation, 2001, 21, 143-152.	1.0	82
22	Inertial measurements of upper limb motion. Medical and Biological Engineering and Computing, 2006, 44, 479-487.	1.6	79
23	Using Fuzzy Logic to Design Separation Function in Flocking Algorithms. IEEE Transactions on Fuzzy Systems, 2008, 16, 826-838.	6.5	76
24	Spatial Gaussian Process Regression With Mobile Sensor Networks. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 1279-1290.	7.2	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.	2.4	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.	2.4	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.	2.7	65
30	Automatic Generation of Synthetic LiDAR Point Clouds for 3-D Data Analysis. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2671-2673.	2.4	62
31	A review of visual inertial odometry from filtering and optimisation perspectives. Advanced Robotics, 2015, 29, 1289-1301.	1.1	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.	1.3	59
34	New Fast Fall Detection Method Based on Spatio-Temporal Context Tracking of Head by Using Depth Images. Sensors, 2015, 15, 23004-23019.	2.1	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

#	Article	IF	Citations
37	Computationally efficient solutions for tracking people withÂaÂmobile robot: an experimental evaluation of Bayesian filters. Autonomous Robots, 2010, 28, 425-438.	3.2	56
38	A Self-Paced Motor Imagery Based Brain-Computer Interface for Robotic Wheelchair Control. Clinical EEG and Neuroscience, 2011, 42, 225-229.	0.9	56
39	Indoor Relocalization in Challenging Environments With Dual-Stream Convolutional Neural Networks. IEEE Transactions on Automation Science and Engineering, 2018, 15, 651-662.	3.4	56
40	Coordination in multi-agent RoboCup teams. Robotics and Autonomous Systems, 2001, 36, 67-86.	3.0	52
41	Application of Linear Discriminant Analysis in Dimensionality Reduction for Hand Motion Classification. Measurement Science Review, 2012, 12, .	0.6	51
42	Applications of wearable inertial sensors in estimation of upper limb movements. Biomedical Signal Processing and Control, 2006, 1, 22-32.	3.5	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.	2.4	50
44	PCA and deep learning based myoelectric grasping control of a prosthetic hand. BioMedical Engineering OnLine, 2018, 17, 107.	1.3	47
45	Landmarkâ€based navigation of industrial mobile robots. Industrial Robot, 2000, 27, 458-467.	1.2	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.	3.5	46
48	A parallel processing architecture for sensor-based control of intelligent mobile robots. Robotics and Autonomous Systems, 1996, 17, 235-257.	3.0	45
49	Pose estimation-dependent identification method for field moth images using deep learning architecture. Biosystems Engineering, 2015, 136, 117-128.	1.9	44
50	A robot calligraphy system: From simple to complex writing by human gestures. Engineering Applications of Artificial Intelligence, 2017, 59, 1-14.	4.3	44
51	Formation Control for a Fleet of Autonomous Ground Vehicles: A Survey. Robotics, 2018, 7, 67.	2.1	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.	2.4	44
53	Inertial sensors for motion detection of human upper limbs. Sensor Review, 2007, 27, 151-158.	1.0	43
54	An optimization based Moving Horizon Estimation with application to localization of Autonomous Underwater Vehicles. Robotics and Autonomous Systems, 2014, 62, 1581-1596.	3.0	43

#	Article	IF	Citations
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.	1.1	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.	5.7	42
58	Stability analysis of token-based wireless networked control systems under deception attacks. Information Sciences, 2018, 459, 168-182.	4.0	42
59	A bayesian approach to real-time obstacle avoidance for a mobile robot. Autonomous Robots, 1994, 1, 69-92.	3.2	38
60	Dynamic global path planning with uncertainty for mobile robots in manufacturing. IEEE Transactions on Automation Science and Engineering, 1997, 13, 760-767.	2.4	37
61	Building Novel VHF-Based Wireless Sensor Networks for the Internet of Marine Things. IEEE Sensors Journal, 2018, 18, 2131-2144.	2.4	37
62	Robotic Dance in Social Roboticsâ€"A Taxonomy. IEEE Transactions on Human-Machine Systems, 2015, 45, 281-293.	2.5	36
63	Towards autonomous localization and mapping of AUVs: a survey. International Journal of Intelligent Unmanned Systems, 2013, 1, 97-120.	0.6	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.	1.6	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.	3.3	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

#	Article	IF	Citations
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.	2.4	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.	1.3	27
77	Biologically Inspired Robotics. Journal of Robotics, 2015, 2015, 1-2.	0.6	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.	2.1	25
81	Robot-Assisted Crowd Evacuation under Emergency Situations: A Survey. Robotics, 2017, 6, 8.	2.1	25
82	Modeling and stability analysis of greyâ€“fuzzy predictive control. Neurocomputing, 2008, 72, 197-202.	3.5	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.	1.4	24
84	iSplash: Realizing Fast Carangiform Swimming to Outperform a Real Fish. Springer Tracts in Mechanical Engineering, 2015, , 193-218.	0.1	23
85	Adaptive Obstacle Detection for Mobile Robots in Urban Environments Using Downward-Looking 2D LiDAR. Sensors, 2018, 18, 1749.	2.1	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.	3.0	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.	5.2	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.	2.5	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.	3.1	21

#	Article	IF	Citations
91	A Method for Detecting Abnormal Program Behavior on Embedded Devices. IEEE Transactions on Information Forensics and Security, 2015, 10, 1692-1704.	4.5	21
92	Autonomous Flight Control for Multi-Rotor UAVs Flying at Low Altitude. IEEE Access, 2019, 7, 42614-42625.	2.6	21
93	A Hybrid Software Platform for Sony AIBO Robots. Lecture Notes in Computer Science, 2004, , 478-486.	1.0	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.	3.7	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.	7.2	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.	3.7	19
104	Interaction Modalities Used on Serious Games for Upper Limb Rehabilitation: A Systematic Review. Games for Health Journal, 2019, 8, 313-325.	1.1	19
105	Multimodal Information Fusion for Automatic Aesthetics Evaluation of Robotic Dance Poses. International Journal of Social Robotics, 2020, 12, 5-20.	3.1	19
106	A self-paced online BCI for mobile robot control. International Journal of Advanced Mechatronic Systems, 2010, 2, 28.	0.1	18
107	Underwater Localization and Environment Mapping Using Wireless Robots. Wireless Personal Communications, 2013, 70, 1147-1170.	1.8	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.	2.9	18

#	Article	IF	Citations
109	Distributed network-based formation control. International Journal of Systems Science, 2009, 40, 539-552.	3.7	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.	3.3	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.	1.6	17
113	Cooperative localization of AUVs using moving horizon estimation. IEEE/CAA Journal of Automatica Sinica, 2014, 1, 68-76.	8.5	17
114	Improving Localization Accuracy for an Underwater Robot With a Slow-Sampling Sonar Through Graph Optimization. IEEE Sensors Journal, 2015, 15, 5024-5035.	2.4	17
115	Cascaded control for balancing an inverted pendulum on a flying quadrotor. Robotica, 2017, 35, 1263-1279.	1.3	17
116	Using Unsupervised Deep Learning Technique for Monocular Visual Odometry. IEEE Access, 2019, 7, 18076-18088.	2.6	17
117	Semantic Scene Mapping with Spatio-temporal Deep Neural Network for Robotic Applications. Cognitive Computation, 2018, 10, 260-271.	3.6	17
118	A modular computing architecture for autonomous robots. Microprocessors and Microsystems, 1998, 21, 349-361.	1.8	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.	5.9	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.	3.4	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.	1.5	15
124	Ant Robotic Swarm for Visualizing Invisible Hazardous Substances. Robotics, 2013, 2, 1-18.	2.1	15
125	A Novel Trail Detection and Scene Understanding Framework for a Quadrotor UAV With Monocular Vision. IEEE Sensors Journal, 2017, 17, 6778-6787.	2.4	15
126	Application of Augmented Reality and Robotic Technology in Broadcasting: A Survey. Robotics, 2017, 6, 18.	2.1	15

#	Article	IF	Citations
127	Multi-sensor based attitude prediction for agricultural vehicles. Computers and Electronics in Agriculture, 2019, 156, 24-32.	3.7	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.	2.7	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.	2.4	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.	3.3	14
131	FUSING EMG AND VISUAL DATA FOR HANDS-FREE CONTROL OF AN INTELLIGENT WHEELCHAIR. International Journal of Humanoid Robotics, 2011, 08, 707-724.	0.6	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.	2.4	14
134	Autonomous Robotic Choreography Creation via Semi-interactive Evolutionary Computation. International Journal of Social Robotics, 2016, 8, 649-661.	3.1	14
135	Adaptive Neuro-Filtering Based Visual Servo Control of a Robotic Manipulator. IEEE Access, 2019, 7, 76891-76901.	2.6	14
136	Unsupervised framework for depth estimation and camera motion prediction from video. Neurocomputing, 2020, 385, 169-185.	3.5	14
137	Distributed Real-Time Control of a Mobile Robot. Intelligent Automation and Soft Computing, 1995, 1, 63-83.	1.6	13
138	A MODULAR ARCHITECTURE FOR HUMANOID SOCCER ROBOTS WITH DISTRIBUTED BEHAVIOR CONTROL. International Journal of Humanoid Robotics, 2008, 05, 397-416.	0.6	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.	1.2	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.	2.7	12
144	Doorway passing of an intelligent wheelchair by dynamically generating Bézier curve trajectory. , 2012, , .		12

#	Article	IF	Citations
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.	3.0	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.	1.1	11
155	LIDAR Point Cloud Registration for Sensing and Reconstruction of Unstructured Terrain. Applied Sciences (Switzerland), 2018, 8, 2318.	1.3	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.	0.7	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.	1.3	11
158	Evolving Fuzzy Logic Controllers for Sony Legged Robots. Lecture Notes in Computer Science, 2002, , 356-361.	1.0	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

#	Article	IF	Citations
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.	2.4	10
170	Single Beacon based Localization with Constraints and Unknown Initial Poses. IEEE Transactions on Industrial Electronics, 2015, , 1-1.	5.2	10
171	Enhanced Robotic Handâ€“Eye Coordination Inspired From Human-Like Behavioral Patterns. IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 384-396.	2.6	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.	3.3	9
174	A Novel Linear Recurrent Neural Network for Multivariable System Identification. Transactions of the Institute of Measurement and Control, 2006, 28, 229-242.	1.1	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

#	Article	IF	Citations
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.	1.7	9
183	Multi-Sensor Based Online Attitude Estimation and Stability Measurement of Articulated Heavy Vehicles. Sensors, 2018, 18, 212.	2.1	9
184	Indoor Topological Localization Based on a Novel Deep Learning Technique. Cognitive Computation, 2020, 12, 528-541.	3.6	9
185	Multiple Visual Feature Integration Based Automatic Aesthetics Evaluation of Robotic Dance Motions. Information (Switzerland), 2021, 12, 95.	1.7	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.	2.4	9
187	A transputer-based system for locating parts and controlling an industrial robot. Robotica, 1990, 8, 97-103.	1.3	8
188	Evolving locomotion gaits for quadruped walking robots. Industrial Robot, 2005, 32, 259-267.	1.2	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.	0.9	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.	3.0	8
193	Active shape model-based user identification for an intelligent wheelchair. International Journal of Advanced Mechatronic Systems, 2009, 1, 299.	0.1	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.	0.3	8
196	Robotics â€" Inspired from Nature. Robotics, 2012, 1, 1-2.	2.1	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

#	Article	IF	Citations
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.	1.1	8
202	Linear perspective shape-from-shading method with two images. Journal of Systems Engineering and Electronics, 2015, 26, 1080-1087.	1.1	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.	5.9	8
205	Creating a Computable Cognitive Model of Visual Aesthetics for Automatic Aesthetics Evaluation of Robotic Dance Poses. Symmetry, 2020, 12, 23.	1.1	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.	0.2	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.	0.4	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.	2.4	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
213	Mobile Robot 3D Perception and Mapping without Odometry Using Multi-Resolution Occupancy Lists. , 2007, , .		7
214	A novel bacterial foraging algorithm for automated tuning of PID controllers of UAVs. , 2010, , .		7
215	A multi-modal human machine interface for controlling an intelligent wheelchair using face movements. , 2011, , .		7
216	A Multi-sensor armband based on muscle and motion measurements. , 2012, , .		7

#	Article	IF	Citations
217	Modeling Aggressive Behaviors With Evolutionary Taxonomers. IEEE Transactions on Human-Machine Systems, 2013, 43, 302-313.	2.5	7
218	Hybrid lip shape feature extraction and recognition for human-machine interaction. International Journal of Modelling, Identification and Control, 2013, 18, 191.	0.2	7
219	3D hand gesture tracking and recognition for controlling an intelligent wheelchair. International Journal of Computer Applications in Technology, 2014, 49, 104.	0.3	7
220	Building a grid-point cloud-semantic map based on graph for the navigation of intelligent wheelchair. , 2015, , .		7
221	An adaptive seamless assist-as-needed control scheme for lower extremity rehabilitation robots. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2021, 235, 723-734.	0.7	7
222	Automatic Circumference Measurement for Aiding in the Estimation of Maximum Voluntary Contraction (MVC) in EMG Systems. Lecture Notes in Computer Science, 2011, , 202-211.	1.0	7
223	Distortion Convolution Module for Semantic Segmentation of Panoramic Images Based on the Image-Forming Principle. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-12.	2.4	7
224	A novel lightweight bilateral segmentation network for detecting oil spills on the sea surface. Marine Pollution Bulletin, 2022, 175, 113343.	2.3	7
225	Software and hardware architecture of advanced mobile robots for manufacturing. Journal of Experimental and Theoretical Artificial Intelligence, 1997, 9, 257-276.	1.8	6
226	Learning fuzzy logic controller for reactive robot behaviours. , 0, , .		6
227	Agent architecture for multi-robot cooperation over the Internet. Integrated Computer-Aided Engineering, 2004, 11, 213-225.	2.5	6
228	Accuracy based fuzzy Q-learning for robot behaviours. , 0, , .		6
229	Myoelectric based virtual joystick applied to electric powered wheelchair. , 2008, , .		6
230	Generating human-like soccer primitives from human data. Robotics and Autonomous Systems, 2009, 57, 860-869.	3.0	6
231	Application of advanced fault diagnosis technology in electric locomotives. International Journal of Modelling, Identification and Control, 2010, 10, 292.	0.2	6
232	A gaussian groundplan projection area model for evolving probabilistic classifiers. , 2011, , .		6
233	A wearable sensor fusion armband for simple motion control and selection for disabled and non-disabled users. , 2012, , .		6
234	A practical proposal for ensuring the provenance of hardware devices and their safe operation. , 2012, , .		6

#	Article	IF	Citations
235	ICmetrics for Low Resource Embedded Systems. , 2012, , .		6
236	An EEG Based Control System for Intelligent Wheelchair. Applied Mechanics and Materials, 2013, 300-301, 1540-1545.	0.2	6
237	Interactive indoor environment mapping through visual tracking of human skeleton. International Journal of Modelling, Identification and Control, 2013, 20, 319.	0.2	6
238	Visual Campus Road Detection for an UGV using Fast Scene Segmentation and Rapid Vanishing Point Estimation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 11898-11903.	0.4	6
239	A pyramidal deep learning architecture for human action recognition. International Journal of Modelling, Identification and Control, 2014, 21, 139.	0.2	6
240	Building semantic maps for blind people to navigate at home. , 2016, , .		6
241	A novel fuzzy logic algorithm for accurate fall detection of smart wristband. Transactions of the Institute of Measurement and Control, 2020, 42, 786-794.	1.1	6
242	Novel Laser-Based Obstacle Detection for Autonomous Robots on Unstructured Terrain. Sensors, 2020, 20, 5048.	2.1	6
243	Using gyro stabilizer for active anti-rollover control of articulated wheeled loader vehicles. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2021, 235, 237-248.	0.7	6
244	Multiscale Adaptive Edge Detector for Images Based on a Novel Standard Deviation Map. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	2.4	6
245	A novel deep learning network for accurate lane detection in low-light environments. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2022, 236, 424-438.	1.1	6
246	A HYBRID SENSING APPROACH TO MOBILE ROBOT LOCALIZATION IN COMPLEX INDOOR ENVIRONMENTS. International Journal of Robotics and Automation, 2012, 27, .	0.1	6
247	<title>Outdoor navigation of a mobile robot with multiple sensors</title>. , 1998, 3210, 13.		5
248	The use of design patterns for the development of multi-agent systems. , 0, , .		5
249	A framework for mobile-service based co-ordination of embedded web agents in intelligent buildings. , 0, , .		5
250	Parameter optimisation of an evolutionary algorithm for on-line gait generation of quadruped robots. , 0, , .		5
251	Kinematic model aided inertial motion tracking of human upper limb. , 0, , .		5
252	Visual Navigation of a Museum Guide Robot. , 2006, , .		5

#	Article	IF	Citations
253	SVM Based SLAM Algorithm for Autonomous Mobile Robots. , 2007, , .		5
254	A hybrid approach to fast and accurate localization for legged robots. Robotica, 2008, 26, 817-830.	1.3	5
255	Using echo ultrasound from schooling fish to detect and classify fish types. Journal of Bionic Engineering, 2009, 6, 264-269.	2.7	5
256	Environmental field estimation of mobile sensor networks using support vector regression. , 2010, , .		5
257	Time delay characteristic of industrial wireless networks based on IEEE 802.15.4a. International Journal of Automation and Computing, 2011, 8, 170-176.	4.5	5
258	A novel bio-inspired distributed coverage controller for pollution monitoring. , 2011, , .		5
259	Modelling and control design for an electro-pneumatic braking system in trains with multiple locomotives. International Journal of Modelling, Identification and Control, 2012, 17, 99.	0.2	5
260	Fusing mixed visual features for human action recognition. International Journal of Modelling, Identification and Control, 2013, 19, 13.	0.2	5
261	Bi-modal Human Machine Interface for Controlling an Intelligent Wheelchair. , 2013, , .		5
262	Feasibility of Using Gyro and EMG Fusion as a Multi-position Computer Interface for Amputees. , 2013, , .		5
263	Real-time detection of moving objects in a video sequence by using data fusion algorithm. Transactions of the Institute of Measurement and Control, 2019, 41, 793-804.	1.1	5
264	Using a Multilearner to Fuse Multimodal Features for Human Action Recognition. Mathematical Problems in Engineering, 2020, 2020, 1-18.	0.6	5
265	Modularity and Mobility of Distributed Control Software for Networked Mobile Robots. , 2007, , 459-484.		5
266	Kinect Enabled Monte Carlo Localisation for a Robotic Wheelchair. Advances in Intelligent Systems and Computing, 2013, , 153-163.	0.5	5
267	Design of Beaver-like Hind Limb and Analysis of Two Swimming Gaits for Underwater Narrow Space Exploration. Journal of Intelligent and Robotic Systems: Theory and Applications, 2022, 104, 1.	2.0	5
268	Transputer architectures for sensing in a robot controller: Formal methods for design. Concurrency and Computation: Practice and Experience, 1991, 3, 283-292.	0.6	4
269	Colour based human motion tracking for home-based rehabilitation. , 0, , .		4
270	FPGA-Based Colour Image Classification for Mobile Robot Navigation. , 0, , .		4

#	Article	IF	Citations
271	A Two-Step Particle Filter for SLAM of Corridor Environment. , 2006, , .		4
272	Use of Colour and Shape Constraints in Vision-based Valve Operation by Robot. International Journal of Advanced Robotic Systems, 2006, 3, 38.	1.3	4
273	The Fuzzy Sars'a'(λ) Learning Approach Applied to a Strategic Route Learning Robot Behaviour. , 2006, , .		4
274	Study on Navigation Strategy of Intelligent Wheelchair in Narrow Spaces. , 2006, , .		4
275	AAM based HCI for an intelligent wheelchair. Proceedings of SPIE, 2007, , .	0.8	4
276	Application of feature tracking in a vision based human machine interface for Xbox. , 2009, , .		4
277	Current-based wheel slip detection of all-wheel driving vehicle. , 2009, , .		4
278	Multimodal perception and recognition of humans with a mobile service robot. , 2009, , .		4
279	A novel information fusion based FTT algorithm for a driver fatigue monitoring system. International Journal of Modelling, Identification and Control, 2010, 10, 230.	0.2	4
280	Exploiting bacterial swarms for optimal coverage of dynamic pollutant profiles. , 2010, , .		4
281	Design of a surface EMG based human-machine interface for an intelligent wheelchair. , 2011, , .		4
282	Program Counter as an Integrated Circuit Metrics for Secured Program Identification. , 2013, , .		4
283	ROS Based Multi-sensor Navigation of Intelligent Wheelchair. , 2013, , .		4
284	Smartphone-controlled user calling system for a mobile robot. , 2013, , .		4
285	A model for using self-organized agents to visually map environmental profiles. Ecological Complexity, 2014, 19, 68-79.	1.4	4
286	Adaptive myoelectric control applied to video game. Biomedical Signal Processing and Control, 2015, 18, 153-160.	3.5	4
287	Using AKF-PSR to Compensate Random Drift Errors of Low-Cost MEMS Gyroscopes. IEEE Sensors Journal, 2019, 19, 6802-6810.	2.4	4
288	Using Machine Learning Techniques to Optimize Fall Detection Algorithms in Smart Wristband. , 2019, , .		4

#	Article	IF	Citations
289	A Composite Random Walk for Facing Environmental Uncertainty and Reduced Perceptual Capabilities. Lecture Notes in Computer Science, 2011, , 620-629.	1.0	4
290	Imitation towards service robotics. , 0, , .		3
291	Teaching robots to plan through Q-learning. Robotica, 2005, 23, 139-147.	1.3	3
292	Laser based simultaneous mutual localisation for multiple mobile robots. , 0, , .		3
293	Improving the formation-keeping performance of multiple autonomous underwater robotic vehicles. , 0, , .		3
294	Smooth Path Planning for Intelligent Wheelchair Based on Human-Machine Interaction. , 2006, , .		3
295	A Data-driven 3D Animation System for Tele-Rehabilitation. , 2007, , .		3
296	A hybrid approach to 3D arm motion tracking. Transactions of the Institute of Measurement and Control, 2008, 30, 259-273.	1.1	3
297	A fuzzy-convolution model for physical action and behaviour pattern recognition of 3D time series. , 2009, , .		3
298	A fast handover scheme based on multiple mobile router cooperation for a train-based mobile network. International Journal of Modelling, Identification and Control, 2010, 10, 202.	0.2	3
299	Controlling a virtual forehand prosthesis using an adaptive and affective Human-Machine Interface. , 2011, 2011, 4128-31.		3
300	Target attraction-based ant colony algorithm for mobile robots in rescue missions. International Journal of Modelling, Identification and Control, 2012, 17, 133.	0.2	3
301	A linear matrix inequality approach to system stabilization over constrained channels. Transactions of the Institute of Measurement and Control, 2013, 35, 83-91.	1.1	3
302	Two-dimensional laser-based environment exploration and recognition for service robots. Transactions of the Institute of Measurement and Control, 2013, 35, 1068-1084.	1.1	3
303	Modelling of stable angle-based instability threat indicator for articulated off-road vehicles. International Journal of Computer Applications in Technology, 2014, 49, 316.	0.3	3
304	On the Incorporation of Secure Filter in ICMetrics Group Communications. , 2014, , .		3
305	Exploring ICMetrics to detect abnormal program behaviour on embedded devices. Journal of Systems Architecture, 2015, 61, 567-575.	2.5	3
306	Night-time indoor relocalization using depth image with Convolutional Neural Networks. , 2016, , .		3

#	Article	IF	Citations
307	Robot assisted evacuation simulation. , 2016, , .		3
308	Real-time object subspace searching based on discrete searching paths and local energy. International Journal of Automation and Computing, 2016, 13, 99-107.	4.5	3
309	Using an Ensemble of Incrementally Fine-Tuned CNNs for Cross-Domain Object Category Recognition. IEEE Access, 2019, 7, 33822-33833.	2.6	3
310	A Generalised Approach to Position Selection for Simulated Soccer Agents. Lecture Notes in Computer Science, 2002, , 380-386.	1.0	3
311	Detecting Compromised Programs for Embedded System Applications. Lecture Notes in Computer Science, 2014, , 221-232.	1.0	3
312	Performance Analysis of Industrial Wireless Network Based on IEEE 802.15.4a. Communications in Computer and Information Science, 2010, , 64-69.	0.4	3
313	A Study on Fatigued Driversâ€™ Facial Feature Extraction and Facial Expression Recognition Based on AAM Model. Journal of Computational and Theoretical Nanoscience, 2016, 13, 821-829.	0.4	3
314	Multi-modality â€" EMG and Visual Based Hands-Free Control of an Intelligent Wheelchair. Lecture Notes in Computer Science, 2010, , 659-670.	1.0	3
315	A Novel 3D Expansion and Corrosion Method for Human Detection Based on Depth Information. Communications in Computer and Information Science, 2017, , 556-565.	0.4	3
316	Pixel-Reasoning-Based Robotics Fine Grasping for Novel Objects with Deep EDINet Structure. Sensors, 2022, 22, 4283.	2.1	3
317	Application of parallel processing to intelligent control of mobile robots. , 0, , .		2
318	REINFORCEMENT LEARNING OF FUZZY LOGIC CONTROLLERS FOR QUADRUPED. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 91-96.	0.4	2
319	A framework for multi-robot foraging over the Internet. , 0, , .		2
320	A hybrid framework for image segmentation. , 0, , .		2
321	A shape constraint based visual positioning method for a humanoid robot. Robotica, 2006, 24, 429-431.	1.3	2
322	Learning to plan for robots using generalized representations. Industrial Robot, 2006, 33, 270-277.	1.2	2
323	Visual based Localization for mobile robots with Support Vector Machines. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	2
324	Adaptive unscented kalman filter for deep-sea tracked vehicle localization. , 2009, , .		2

#	Article	IF	Citations
325	Adaptive myoelectric human-machine interface for video games. , 2009, , .		2
326	Mechanical feature attributes for modeling and pattern classification of physical activities. , 2009, , .		2
327	Leader-follower flocking experiments using estimated flocking center. , 2009, , .		2
328	A QA-TSK fuzzy model vs evolutionary decision trees towards nonlinear action pattern recognition. , 2010, , .		2
329	A Novel Real-Time Face Tracking Algorithm for Detection of Driver Fatigue. , 2010, , .		2
330	Evolving aggressive biomechanical models with genetic programming. , 2010, , .		2
331	Distributed minimax filter for tracking and flocking. , 2010, , .		2
332	Renyi Entropy based Target Tracking in Mobile Sensor Networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 13558-13563.	0.4	2
333	Pose-based GraphSLAM algorithm for robotic fish with a mechanical scanning sonar. , 2013, , .		2
334	Using forearm circumference for automatic threshold calibration for simple EMG control. , 2013, , .		2
335	Real-time road detection and description for robot navigation in an unstructured campus environment. , 2014, , .		2
336	Vision-aided inertial navigation using three-view geometry. , 2014, , .		2
337	A novel fuzzy logic approach to online exposure time calculation of line scan cameras in industrial inspection. International Journal of Modelling, Identification and Control, 2014, 21, 8.	0.2	2
338	A novel RGB-D SLAM algorithm based on points and plane-patches. , 2016, , .		2
339	Using semantic maps for room recognition to aid visually impaired people. , 2016, , .		2
340	Building a Virtual Reality System for Intelligent Agriculture Greenhouse Based on Web3D. Communications in Computer and Information Science, 2017, , 790-799.	0.4	2
341	A New Meanshift Target Tracking Algorithm by Combining Feature Points from Gray and Depth Images. Communications in Computer and Information Science, 2017, , 545-555.	0.4	2
342	TARGET TRACKING BY USING PARTICLE FILTER IN SENSOR NETWORKS. International Journal of Robotics and Automation, 2009, 24, .	0.1	2

#	Article	IF	Citations
343	Fuzzy Logic for Behaviour Co-ordination and Multi-Agent Formation in RoboCup. , 2001, , 191-198.		2
344	Essex Rovers 2001 Team Description. Lecture Notes in Computer Science, 2002, , 697-700.	1.0	2
345	A novel reconfigurable control method for an aircraft with potential actuator failures. International Journal of Computer Applications in Technology, 2017, 56, 163.	0.3	2
346	An Electric Wheelchair Controlled by Head Movements and Facial Expressions. Advances in Computational Intelligence and Robotics Book Series, 2018, , 1-30.	0.4	2
347	Automatic aesthetics assessment of robotic dance motions. Robotics and Autonomous Systems, 2022, 155, 104160.	3.0	2
348	Unicycle-like Vehicle Parking via Receding Horizon Control. , 0, , .		1
349	Model predictive control for simultaneous robot tracking and regulation. , 0, , .		1
350	A multi-scale focus pseudo omni-directional robot vision system with intelligent image grabbers. , 0, , .		1
351	A Practical Exploration Approach Applied to Robot Simultaneous Localization and Map Building Process. , 2006, , .		1
352	IMPLEMENTATION OF A LOCALIZATION-ORIENTED HRI FOR WALKING ROBOTS IN THE ROBOCUP ENVIRONMENT. International Journal of Information Acquisition, 2008, 05, 331-347.	0.2	1
353	Lux - An interactive receptionist robot for university open days. , 2008, , .		1
354	An interactive HRI for walking robots in RoboCup. , 2008, , .		1
355	A Behavior Based Control System forÂSurveillance UAVs. Advanced Information and Knowledge Processing, 2010, , 209-228.	0.2	1
356	Distributed least square support vector regression for environmental field estimation. , 2011, , .		1
357	Active Learning of Gaussian Processes for Spatial Functions in Mobile Sensor Networks. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 13564-13569.	0.4	1
358	Hazardous substance source seeking in a diffusion based noisy environment. , 2012, , .		1
359	Optimization and Sequence Search Based Localization in Wireless Sensor Networks. , 2012, , .		1
360	A recursive Bayesian filter for landmark-based localisation of a wheelchair robot. , 2012, , .		1

#	Article	IF	Citations
361	An improved incremental online training algorithm for reducing the influence of muscle fatigue in sEMG based HMI. , 2012, , .		1
362	Spatial function estimation using Gaussian process with sparse history data in mobile sensor networks. , 2012, , .		1
363	Applying Bayesian decision theory to peak detection of stochastic signals. , 2012, , .		1
364	Sensor-based dynamic trajectory planning for smooth door passing of intelligent wheelchairs. , 2013, , .		1
365	Using Wavelet and Bayesian Decision Theory in Real-Time Prostate Volume Measurements. , 2013, , .		1
366	Stochastic ant agent for priority-based coverage. , 2013, , .		1
367	On Secure Group Admission Control Using ICMetrics. , 2014, , .		1
368	Special issue on biologically inspired robotics. Advanced Robotics, 2014, 28, 269-270.	1.1	1
369	A semi-supervised learning system for service robots to recognise human actions. Advanced Robotics, 2014, 28, 907-918.	1.1	1
370	Single beacon based multi-robot cooperative localization using Moving Horizon Estimation. , 2014, , .		1
371	Control of 3D positioning and modelling for stereo microscopic servoing system based on the Hamiltonian method. International Journal of Modelling, Identification and Control, 2014, 22, 318.	0.2	1
372	Tracking and modeling of spatio-temporal fields with a mobile sensor network. , 2014, , .		1
373	Computational Intelligence Approaches to Robotics, Automation, and Control. Mathematical Problems in Engineering, 2015, 2015, 1-1.	0.6	1
374	Robust direct visual inertial odometry via entropy-based relative pose estimation. , 2015, , .		1
375	Tracking and sensor coverage of spatio-temporal quantities using a swarm of artificial foraging agents. Journal of Bionic Engineering, 2016, 13, 679-689.	2.7	1
376	A multi-robot simulator for the evaluation of formation control algorithms. , 2019, , .		1
377	Flexible Bi-modal Control Modes for Hands-Free Operation of a Wheelchair by Head Movements and Facial Expressions. Mechanisms and Machine Science, 2014, , 109-123.	0.3	1
378	A Behavior Based Control and Learning Approach to Real Robots. Studies in Computational Intelligence, 2009, , 171-186.	0.7	1

#	Article	IF	Citations
379	Essex Wizards 2001 Team Description. Lecture Notes in Computer Science, 2002, , 511-514.	1.0	1
380	A Novel Approach to System Stabilization over Constrained Channels. Lecture Notes in Computer Science, 2010, , 450-455.	1.0	1
381	Towards a Multi-peclet Number Pollution Monitoring Algorithm. Lecture Notes in Computer Science, 2011, , 287-296.	1.0	1
382	Extended model predictive control scheme for smooth path following of autonomous vehicles. Frontiers of Mechanical Engineering, 2022, 17, 1.	2.5	1
383	A novel multi-exposure fusion approach for enhancing visual semantic segmentation of autonomous driving. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 0, , 095440702210978.	1.1	1
384	Research on the position estimation of human movement based on camera projection. , 2005, , .		0
385	RL-based Optimisation of Robotic Fish Behaviours. , 2006, , .		0
386	Fish 'n' chips. Computing & Control Engineering Journal, 2007, 18, 18-19.	0.0	0
387	Towards distributed coverage of complex spatiotemporal profiles. , 2011, , .		0
388	Using CFD in robotic simulators for pollution monitoring. , 2011, , .		0
389	A bio-inspired controller for unmanned aerial vehicles in chemical cloud coverage. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2011, 225, 770-778.	0.7	0
390	Sparse Gaussian Process for Spatial Function Estimation with Mobile Sensor Networks. , 2012, , .		0
391	An efficient human detection method for multi-pedestrian tracking. Journal of Central South University, 2013, 20, 3552-3563.	1.2	0
392	Enhancing the Autonomy of Disabled Persons: Assistive Technologies Directed by User Feedback. , 2013, , .		0
393	A Self-Organising Map Based Algorithm for Analysis of ICmetrics Features. , 2013, , .		0
394	Vision-based precise cash counting in ATM machines. , 2014, , .		0
395	The binomial-neighbour instance-based learner on a multiclass performance measure scheme. Soft Computing, 2015, 19, 2973-2981.	2.1	0
396	Robotic aid in crowd evacuation simulation. , 2015, , .		0

#	Article	IF	Citations
397	Pose estimation using visual entropy. , 2015, , .		0
398	Simultaneous extraction of the moon and stars at night. , 2016, , .		0
399	Using wavelet denoising in automatic online efficiency estimation of a hydraulic excavator. Transactions of the Institute of Measurement and Control, 2017, 39, 1262-1270.	1.1	0
400	Selective Ensemble Learning based Human Action Recognition Using Fusing Visual Features. , 2018, , .		0
401	Biologically Inspired Robotics 2016. Journal of Robotics, 2018, 2018, 1-2.	0.6	0
402	Visualization interface for posture monitoring of wheel loaders based on inertial sensors. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 5781-5794.	1.1	0
403	A novel plane based image registration pipeline with CNN scene parsing. , 2019, , .		0
404	Texture-Based Pattern Recognition Algorithms for the RoboCup Challenge. Lecture Notes in Computer Science, 2004, , 611-620.	1.0	0
405	Using Myoelectric Signals to Manipulate Assisting Robots and Rehabilitation Devices. , 2011, , 166-185.		0
406	A Quick Method for Matching Object Subspaces Based on Visual Inspection. Communications in Computer and Information Science, 2014, , 159-168.	0.4	0
407	Cascade ADRC-based fault-tolerant control for a PVTOL aircraft with potential actuator failures. International Journal of Modelling, Identification and Control, 2017, 28, 212.	0.2	0
408	Using Myoelectric Signals to Manipulate Assisting Robots and Rehabilitation Devices. , 0, , 970-990.		0
409	A New Grey Prediction Based Fuzzy Controller for Networked Control Systems. Lecture Notes in Computer Science, 2007, , 368-377.	1.0	0
410	Applications of Computational Verbs to Image Processing of RoboCup Small-Size Robots. , 0, , 494-499.		0
411	Performance Improvement for Formation-Keeping Control Using a Neural Network HJI Approach. , 2007, , 419-442.		0