

Huosheng Hu

List of Publications by Year in descending order

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411
papers

9,928
citations

66234

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419
all docs

419
docs citations

419
times ranked

8473
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	A novel lightweight bilateral segmentation network for detecting oil spills on the sea surface. Marine Pollution Bulletin, 2022, 175, 113343.	2.3	7
4	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
5	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
6	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
7	Extended model predictive control scheme for smooth path following of autonomous vehicles. Frontiers of Mechanical Engineering, 2022, 17, 1.	2.5	1
8	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
9	Automatic aesthetics assessment of robotic dance motions. Robotics and Autonomous Systems, 2022, 155, 104160.	3.0	2
10	Pixel-Reasoning-Based Robotics Fine Grasping for Novel Objects with Deep EDINet Structure. Sensors, 2022, 22, 4283.	2.1	3
11	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
12	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
13	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
14	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
15	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
16	Multiple Visual Feature Integration Based Automatic Aesthetics Evaluation of Robotic Dance Motions. Information (Switzerland), 2021, 12, 95.	1.7	9
17	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
18	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

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19	Multimodal Information Fusion for Automatic Aesthetics Evaluation of Robotic Dance Poses. <i>International Journal of Social Robotics</i> , 2020, 12, 5-20.	3.1	19
20	RBPF-MSIS: Toward Rao-Blackwellized Particle Filter SLAM for Autonomous Underwater Vehicle With Slow Mechanical Scanning Imaging Sonar. <i>IEEE Systems Journal</i> , 2020, 14, 3301-3312.	2.9	18
21	A novel fuzzy logic algorithm for accurate fall detection of smart wristband. <i>Transactions of the Institute of Measurement and Control</i> , 2020, 42, 786-794.	1.1	6
22	Indoor Topological Localization Based on a Novel Deep Learning Technique. <i>Cognitive Computation</i> , 2020, 12, 528-541.	3.6	9
23	Unsupervised framework for depth estimation and camera motion prediction from video. <i>Neurocomputing</i> , 2020, 385, 169-185.	3.5	14
24	Hybrid Path Planning Based on Safe A* Algorithm and Adaptive Window Approach for Mobile Robot in Large-Scale Dynamic Environment. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2020, 99, 65-77.	2.0	104
25	Using a Multilearner to Fuse Multimodal Features for Human Action Recognition. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-18.	0.6	5
26	Novel Laser-Based Obstacle Detection for Autonomous Robots on Unstructured Terrain. <i>Sensors</i> , 2020, 20, 5048.	2.1	6
27	A Single-legged Robot Inspired by the Jumping Mechanism of Click Beetles and Its Hopping Dynamics Analysis. <i>Journal of Bionic Engineering</i> , 2020, 17, 1109-1125.	2.7	15
28	A novel data-driven rollover risk assessment for articulated steering vehicles using RNN. <i>Journal of Mechanical Science and Technology</i> , 2020, 34, 2161-2170.	0.7	11
29	OctreeNet: A Novel Sparse 3-D Convolutional Neural Network for Real-Time 3-D Outdoor Scene Analysis. <i>IEEE Transactions on Automation Science and Engineering</i> , 2020, 17, 735-747.	3.4	16
30	Creating a Computable Cognitive Model of Visual Aesthetics for Automatic Aesthetics Evaluation of Robotic Dance Poses. <i>Symmetry</i> , 2020, 12, 23.	1.1	8
31	Real-time detection of moving objects in a video sequence by using data fusion algorithm. <i>Transactions of the Institute of Measurement and Control</i> , 2019, 41, 793-804.	1.1	5
32	RGB-DI Images and Full Convolution Neural Network-Based Outdoor Scene Understanding for Mobile Robots. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019, 68, 27-37.	2.4	44
33	Using an Ensemble of Incrementally Fine-Tuned CNNs for Cross-Domain Object Category Recognition. <i>IEEE Access</i> , 2019, 7, 33822-33833.	2.6	3
34	Interaction Modalities Used on Serious Games for Upper Limb Rehabilitation: A Systematic Review. <i>Games for Health Journal</i> , 2019, 8, 313-325.	1.1	19
35	Adaptive Neuro-Filtering Based Visual Servo Control of a Robotic Manipulator. <i>IEEE Access</i> , 2019, 7, 76891-76901.	2.6	14
36	Autonomous Flight Control for Multi-Rotor UAVs Flying at Low Altitude. <i>IEEE Access</i> , 2019, 7, 42614-42625.	2.6	21

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37	Using AKF-PSR to Compensate Random Drift Errors of Low-Cost MEMS Gyroscopes. IEEE Sensors Journal, 2019, 19, 6802-6810.	2.4	4
38	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
39	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
40	Using Unsupervised Deep Learning Technique for Monocular Visual Odometry. IEEE Access, 2019, 7, 18076-18088.	2.6	17
41	A multi-robot simulator for the evaluation of formation control algorithms. , 2019, , .		1
42	Using Machine Learning Techniques to Optimize Fall Detection Algorithms in Smart Wristband. , 2019, , .		4
43	A novel plane based image registration pipeline with CNN scene parsing. , 2019, , .		0
44	Feature fusion based automatic aesthetics evaluation of robotic dance poses. Robotics and Autonomous Systems, 2019, 111, 99-109.	3.0	12
45	Multi-sensor based attitude prediction for agricultural vehicles. Computers and Electronics in Agriculture, 2019, 156, 24-32.	3.7	15
46	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
47	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
48	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
49	Building Novel VHF-Based Wireless Sensor Networks for the Internet of Marine Things. IEEE Sensors Journal, 2018, 18, 2131-2144.	2.4	37
50	Enhanced Robotic Hand-Eye Coordination Inspired From Human-Like Behavioral Patterns. IEEE Transactions on Cognitive and Developmental Systems, 2018, 10, 384-396.	2.6	10
51	Inertial/magnetic sensors based pedestrian dead reckoning by means of multi-sensor fusion. Information Fusion, 2018, 39, 108-119.	11.7	147
52	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
53	LIDAR Point Cloud Registration for Sensing and Reconstruction of Unstructured Terrain. Applied Sciences (Switzerland), 2018, 8, 2318.	1.3	11
54	Robot Performing Peg-in-Hole Operations by Learning from Human Demonstration. , 2018, , .		8

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55	Selective Ensemble Learning based Human Action Recognition Using Fusing Visual Features. , 2018, , .		0
56	Formation Control for a Fleet of Autonomous Ground Vehicles: A Survey. Robotics, 2018, 7, 67.	2.1	44
57	Robotic Choreography Inspired by the Method of Human Dance Creation. Information (Switzerland), 2018, 9, 250.	1.7	9
58	Biologically Inspired Robotics 2016. Journal of Robotics, 2018, 2018, 1-2.	0.6	0
59	Robot Learning from Demonstration in Robotic Assembly: A Survey. Robotics, 2018, 7, 17.	2.1	152
60	Multi-Sensor Based Online Attitude Estimation and Stability Measurement of Articulated Heavy Vehicles. Sensors, 2018, 18, 212.	2.1	9
61	Adaptive Obstacle Detection for Mobile Robots in Urban Environments Using Downward-Looking 2D LiDAR. Sensors, 2018, 18, 1749.	2.1	23
62	Stability analysis of token-based wireless networked control systems under deception attacks. Information Sciences, 2018, 459, 168-182.	4.0	42
63	PCA and deep learning based myoelectric grasping control of a prosthetic hand. BioMedical Engineering OnLine, 2018, 17, 107.	1.3	47
64	Semantic Scene Mapping with Spatio-temporal Deep Neural Network for Robotic Applications. Cognitive Computation, 2018, 10, 260-271.	3.6	17
65	An Electric Wheelchair Controlled by Head Movements and Facial Expressions. Advances in Computational Intelligence and Robotics Book Series, 2018, , 1-30.	0.4	2
66	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
67	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
68	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
69	Cascaded control for balancing an inverted pendulum on a flying quadrotor. Robotica, 2017, 35, 1263-1279.	1.3	17
70	A robot calligraphy system: From simple to complex writing by human gestures. Engineering Applications of Artificial Intelligence, 2017, 59, 1-14.	4.3	44
71	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
72	Building a Virtual Reality System for Intelligent Agriculture Greenhouse Based on Web3D. Communications in Computer and Information Science, 2017, , 790-799.	0.4	2

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73	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
74	Application of Augmented Reality and Robotic Technology in Broadcasting: A Survey. Robotics, 2017, 6, 18.	2.1	15
75	Robot-Assisted Crowd Evacuation under Emergency Situations: A Survey. Robotics, 2017, 6, 8.	2.1	25
76	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
77	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
78	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
79	Extracting Semantic Information from Visual Data: A Survey. Robotics, 2016, 5, 8.	2.1	25
80	Autonomous Robotic Choreography Creation via Semi-interactive Evolutionary Computation. International Journal of Social Robotics, 2016, 8, 649-661.	3.1	14
81	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
82	Simultaneous extraction of the moon and stars at night. , 2016, , .		0
83	Building semantic maps for blind people to navigate at home. , 2016, , .		6
84	A novel RGB-D SLAM algorithm based on points and plane-patches. , 2016, , .		2
85	Using semantic maps for room recognition to aid visually impaired people. , 2016, , .		2
86	Night-time indoor relocalization using depth image with Convolutional Neural Networks. , 2016, , .		3
87	Robot assisted evacuation simulation. , 2016, , .		3
88	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
89	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
90	A novel camera calibration technique based on differential evolution particle swarm optimization algorithm. Neurocomputing, 2016, 174, 456-465.	3.5	46

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91	A Study on Fatigued Drivers's Facial Feature Extraction and Facial Expression Recognition Based on AAM Model. <i>Journal of Computational and Theoretical Nanoscience</i> , 2016, 13, 821-829.	0.4	3
92	New Fast Fall Detection Method Based on Spatio-Temporal Context Tracking of Head by Using Depth Images. <i>Sensors</i> , 2015, 15, 23004-23019.	2.1	58
93	Computational Intelligence Approaches to Robotics, Automation, and Control. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-1.	0.6	1
94	Biologically Inspired Robotics. <i>Journal of Robotics</i> , 2015, 2015, 1-2.	0.6	27
95	Improving Localization Accuracy for an Underwater Robot With a Slow-Sampling Sonar Through Graph Optimization. <i>IEEE Sensors Journal</i> , 2015, 15, 5024-5035.	2.4	17
96	The binomial-neighbour instance-based learner on a multiclass performance measure scheme. <i>Soft Computing</i> , 2015, 19, 2973-2981.	2.1	0
97	Linear perspective shape-from-shading method with two images. <i>Journal of Systems Engineering and Electronics</i> , 2015, 26, 1080-1087.	1.1	8
98	Robotic aid in crowd evacuation simulation. , 2015, , .		0
99	Building a grid-point cloud-semantic map based on graph for the navigation of intelligent wheelchair. , 2015, , .		7
100	Pose estimation using visual entropy. , 2015, , .		0
101	A Computer-Aided Modeling and Measurement System for Environmental Thermal Comfort Sensing. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2015, 64, 478-486.	2.4	10
102	Adaptive myoelectric control applied to video game. <i>Biomedical Signal Processing and Control</i> , 2015, 18, 153-160.	3.5	4
103	A School of Robotic Fish for Mariculture Monitoring in the Sea Coast. <i>Journal of Bionic Engineering</i> , 2015, 12, 37-46.	2.7	65
104	Robotic Dance in Social Robotics's Taxonomy. <i>IEEE Transactions on Human-Machine Systems</i> , 2015, 45, 281-293.	2.5	36
105	Exploring ICMetrics to detect abnormal program behaviour on embedded devices. <i>Journal of Systems Architecture</i> , 2015, 61, 567-575.	2.5	3
106	Pose estimation-dependent identification method for field moth images using deep learning architecture. <i>Biosystems Engineering</i> , 2015, 136, 117-128.	1.9	44
107	Bio-signal based control in assistive robots: a survey. <i>Digital Communications and Networks</i> , 2015, 1, 85-101.	2.7	84
108	A novel outdoor scene-understanding framework for unmanned ground vehicles with 3D laser scanners. <i>Transactions of the Institute of Measurement and Control</i> , 2015, 37, 435-445.	1.1	11

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109	A Method for Detecting Abnormal Program Behavior on Embedded Devices. IEEE Transactions on Information Forensics and Security, 2015, 10, 1692-1704.	4.5	21
110	Robust direct visual inertial odometry via entropy-based relative pose estimation. , 2015, , .		1
111	A review of visual inertial odometry from filtering and optimisation perspectives. Advanced Robotics, 2015, 29, 1289-1301.	1.1	61
112	iSplash: Realizing Fast Carangiform Swimming to Outperform a Real Fish. Springer Tracts in Mechanical Engineering, 2015, , 193-218.	0.1	23
113	Single Beacon based Localization with Constraints and Unknown Initial Poses. IEEE Transactions on Industrial Electronics, 2015, , 1-1.	5.2	10
114	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
115	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
116	Cooperative localization of AUVs using moving horizon estimation. IEEE/CAA Journal of Automatica Sinica, 2014, 1, 68-76.	8.5	17
117	iSplash-I: High performance swimming motion of a carangiform robotic fish with full-body coordination. , 2014, , .		30
118	Biologically-inspired behaviour based robotics for making invisible pollution visible: a survey. Advanced Robotics, 2014, 28, 271-288.	1.1	8
119	3D hand gesture tracking and recognition for controlling an intelligent wheelchair. International Journal of Computer Applications in Technology, 2014, 49, 104.	0.3	7
120	On Secure Group Admission Control Using ICMetrics. , 2014, , .		1
121	iSplash-II: Realizing fast carangiform swimming to outperform a real fish. , 2014, , .		25
122	Real-time road detection and description for robot navigation in an unstructured campus environment. , 2014, , .		2
123	Vision-based precise cash counting in ATM machines. , 2014, , .		0
124	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
125	Special issue on biologically inspired robotics. Advanced Robotics, 2014, 28, 269-270.	1.1	1
126	Ambulatory estimation of 3D walking trajectory and knee joint angle using MARG Sensors. , 2014, , .		14

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127	Vision-aided inertial navigation using three-view geometry. , 2014, , .		2
128	Collaborative control of UAV/UGV. , 2014, , .		10
129	A semi-supervised learning system for service robots to recognise human actions. <i>Advanced Robotics</i> , 2014, 28, 907-918.	1.1	1
130	iSplash-MICRO: A 50mm robotic fish generating the maximum velocity of real fish. , 2014, , .		9
131	Modelling of stable angle-based instability threat indicator for articulated off-road vehicles. <i>International Journal of Computer Applications in Technology</i> , 2014, 49, 316.	0.3	3
132	Single beacon based multi-robot cooperative localization using Moving Horizon Estimation. , 2014, , .		1
133	A model for using self-organized agents to visually map environmental profiles. <i>Ecological Complexity</i> , 2014, 19, 68-79.	1.4	4
134	An optimization based Moving Horizon Estimation with application to localization of Autonomous Underwater Vehicles. <i>Robotics and Autonomous Systems</i> , 2014, 62, 1581-1596.	3.0	43
135	A novel fuzzy logic approach to online exposure time calculation of line scan cameras in industrial inspection. <i>International Journal of Modelling, Identification and Control</i> , 2014, 21, 8.	0.2	2
136	Lateral stability simulation and analysis for wheel loaders based on the steady-state margin angle. <i>International Journal of Modelling, Identification and Control</i> , 2014, 22, 185.	0.2	10
137	Decentralised control for complex systems - an invited survey. <i>International Journal of Modelling, Identification and Control</i> , 2014, 22, 285.	0.2	12
138	Control of 3D positioning and modelling for stereo microscopic servoing system based on the Hamiltonian method. <i>International Journal of Modelling, Identification and Control</i> , 2014, 22, 318.	0.2	1
139	Visual Campus Road Detection for an UGV using Fast Scene Segmentation and Rapid Vanishing Point Estimation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 11898-11903.	0.4	6
140	Tracking and modeling of spatio-temporal fields with a mobile sensor network. , 2014, , .		1
141	A pyramidal deep learning architecture for human action recognition. <i>International Journal of Modelling, Identification and Control</i> , 2014, 21, 139.	0.2	6
142	On the Incorporation of Secure Filter in ICMetrics Group Communications. , 2014, , .		3
143	Detecting Compromised Programs for Embedded System Applications. <i>Lecture Notes in Computer Science</i> , 2014, , 221-232.	1.0	3
144	Flexible Bi-modal Control Modes for Hands-Free Operation of a Wheelchair by Head Movements and Facial Expressions. <i>Mechanisms and Machine Science</i> , 2014, , 109-123.	0.3	1

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145	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
146	A Quick Method for Matching Object Subspaces Based on Visual Inspection. Communications in Computer and Information Science, 2014, , 159-168.	0.4	0
147	Fusing mixed visual features for human action recognition. International Journal of Modelling, Identification and Control, 2013, 19, 13.	0.2	5
148	An efficient human detection method for multi-pedestrian tracking. Journal of Central South University, 2013, 20, 3552-3563.	1.2	0
149	Automatic user identification by using forearm biometrics. , 2013, , .		10
150	Enhancing the Autonomy of Disabled Persons: Assistive Technologies Directed by User Feedback. , 2013, , .		0
151	Application of ICmetrics for Embedded System Security. , 2013, , .		8
152	Program Counter as an Integrated Circuit Metrics for Secured Program Identification. , 2013, , .		4
153	ROS Based Multi-sensor Navigation of Intelligent Wheelchair. , 2013, , .		4
154	Visual Imaging of Invisible Hazardous Substances Using Bacterial Inspiration. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 1105-1115.	5.9	16
155	Multi-layered map based navigation and interaction for an intelligent wheelchair. , 2013, , .		8
156	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
157	Sensor-based dynamic trajectory planning for smooth door passing of intelligent wheelchairs. , 2013, , .		1
158	Pose-based GraphSLAM algorithm for robotic fish with a mechanical scanning sonar. , 2013, , .		2
159	Single beacon based localization of AUVs using moving Horizon estimation. , 2013, , .		9
160	Resilience against brute force and rainbow table attacks using strong ICMetrics session key pairs. , 2013, , .		10
161	Towards ROS Based Multi-robot Architecture for Ambient Assisted Living. , 2013, , .		12
162	Underwater Localization and Environment Mapping Using Wireless Robots. Wireless Personal Communications, 2013, 70, 1147-1170.	1.8	18

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163	Bi-modal Human Machine Interface for Controlling an Intelligent Wheelchair. , 2013, , .		5
164	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
165	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
166	Towards autonomous localization and mapping of AUVs: a survey. International Journal of Intelligent Unmanned Systems, 2013, 1, 97-120.	0.6	35
167	An EEG Based Control System for Intelligent Wheelchair. Applied Mechanics and Materials, 2013, 300-301, 1540-1545.	0.2	6
168	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
169	Smartphone-controlled user calling system for a mobile robot. , 2013, , .		4
170	A Self-Organising Map Based Algorithm for Analysis of ICmetrics Features. , 2013, , .		0
171	Using Wavelet and Bayesian Decision Theory in Real-Time Prostate Volume Measurements. , 2013, , .		1
172	Stochastic ant agent for priority-based coverage. , 2013, , .		1
173	Towards human-friendly efficient control of multi-robot teams. , 2013, , .		11
174	Using forearm circumference for automatic threshold calibration for simple EMG control. , 2013, , .		2
175	Modeling Aggressive Behaviors With Evolutionary Taxonomers. IEEE Transactions on Human-Machine Systems, 2013, 43, 302-313.	2.5	7
176	A Scheme for the Generation of Strong ICMetrics Based Session Key Pairs for Secure Embedded System Applications. , 2013, , .		8
177	Feasibility of Using Gyro and EMG Fusion as a Multi-position Computer Interface for Amputees. , 2013, , .		5
178	Hybrid lip shape feature extraction and recognition for human-machine interaction. International Journal of Modelling, Identification and Control, 2013, 18, 191.	0.2	7
179	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
180	Interactive indoor environment mapping through visual tracking of human skeleton. International Journal of Modelling, Identification and Control, 2013, 20, 319.	0.2	6

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181	Ant Robotic Swarm for Visualizing Invisible Hazardous Substances. <i>Robotics</i> , 2013, 2, 1-18.	2.1	15
182	Free Weight Exercises Recognition Based on Dynamic Time Warping of Acceleration Data. <i>Communications in Computer and Information Science</i> , 2013, , 178-185.	0.4	8
183	Kinect Enabled Monte Carlo Localisation for a Robotic Wheelchair. <i>Advances in Intelligent Systems and Computing</i> , 2013, , 153-163.	0.5	5
184	Classification of Upper Limb Motion Trajectories Using Shape Features. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2012, 42, 970-982.	3.3	17
185	Toward Intelligent Security Robots: A Survey. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2012, 42, 1219-1230.	3.3	33
186	Hazardous substance source seeking in a diffusion based noisy environment. , 2012, , .		1
187	A wearable sensor fusion armband for simple motion control and selection for disabled and non-disabled users. , 2012, , .		6
188	Co-Adaptive and Affective Human-Machine Interface for Improving Training Performances of Virtual Myoelectric Forearm Prosthesis. <i>IEEE Transactions on Affective Computing</i> , 2012, 3, 285-297.	5.7	42
189	IMU/GPS based pedestrian localization. , 2012, , .		16
190	A practical proposal for ensuring the provenance of hardware devices and their safe operation. , 2012, , .		6
191	A Multi-sensor armband based on muscle and motion measurements. , 2012, , .		7
192	ICmetrics for Low Resource Embedded Systems. , 2012, , .		6
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