

Haiwei Dong

List of Publications by Year in descending order

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49
papers

870
citations

623734

14
h-index

526287

27
g-index

50
all docs

50
docs citations

50
times ranked

949
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluating and Improving the Depth Accuracy of Kinect for Windows v2. IEEE Sensors Journal, 2015, 15, 4275-4285.	4.7	234
2	EVM-CNN: Real-Time Contactless Heart Rate Estimation From Facial Video. IEEE Transactions on Multimedia, 2019, 21, 1778-1787.	7.2	105
3	Image-based date fruit classification. , 2012, , .		52
4	Visualizing Toronto City Data with HoloLens: Using Augmented Reality for a City Model. IEEE Consumer Electronics Magazine, 2018, 7, 73-80.	2.3	37
5	Car Parking Vacancy Detection and Its Application in 24-Hour Statistical Analysis. , 2012, , .		36
6	Deep Learning in Next-Frame Prediction: A Benchmark Review. IEEE Access, 2020, 8, 69273-69283.	4.2	35
7	See in 3D: state of the art of 3D display technologies. Multimedia Tools and Applications, 2016, 75, 17121-17155.	3.9	33
8	A Deep Learning System for Recognizing Facial Expression in Real-Time. ACM Transactions on Multimedia Computing, Communications and Applications, 2019, 15, 1-20.	4.3	31
9	Towards Whole Body Fatigue Assessment of Human Movement: A Fatigue-Tracking System Based on Combined sEMG and Accelerometer Signals. Sensors, 2014, 14, 2052-2070.	3.8	30
10	Sitting Posture Recognition Using a Spiking Neural Network. IEEE Sensors Journal, 2021, 21, 1779-1786.	4.7	19
11	Approaching Behaviour Monitor and Vibration Indication in Developing a General Moving Object Alarm System (GMOAS). International Journal of Advanced Robotic Systems, 2013, 10, 290.	2.1	17
12	One-Day Long Statistical Analysis of Parking Demand by Using Single-Camera Vacancy Detection. Journal of Transportation System Engineering and Information Technology, 2014, 14, 33-44.	0.6	17
13	Open Data-Set of Seven Canadian Cities. IEEE Access, 2017, 5, 529-543.	4.2	17
14	Development of a Self-Calibrated Motion Capture System by Nonlinear Trilateration of Multiple Kinects v2. IEEE Sensors Journal, 2017, 17, 2481-2491.	4.7	17
15	Learning to Estimate 3D Human Pose From Point Cloud. IEEE Sensors Journal, 2020, 20, 12334-12342.	4.7	17
16	3-D Markerless Tracking of Human Gait by Geometric Trilateration of Multiple Kinects. IEEE Systems Journal, 2018, 12, 1393-1403.	4.6	16
17	Baidu Meizu Deep Learning Competition: Arithmetic Operation Recognition Using End-to-End Learning OCR Technologies. IEEE Access, 2018, 6, 60128-60136.	4.2	16
18	Cost-Effective Single-Camera Multi-Car Parking Monitoring and Vacancy Detection towards Real-World Parking Statistics and Real-Time Reporting. Lecture Notes in Computer Science, 2012, , 506-515.	1.3	12

#	ARTICLE	IF	CITATIONS
19	From Sense to Print: Towards Automatic 3D Printing from 3D Sensing Devices. , 2013, , .		11
20	Muscle Force Control of a Kinematically Redundant Bionic Arm with Real-Time Parameter Update. , 2013, , .		10
21	An Intelligent Sensing System for Sleep Motion and Stage Analysis. Procedia Engineering, 2012, 41, 1128-1134.	1.2	9
22	Towards consistent reconstructions of indoor spaces based on 6D RGB-D odometry and KinectFusion. , 2014, , .		8
23	CAHR: A Contextually Adaptive Home-Based Rehabilitation Framework. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 427-438.	4.7	8
24	A Combined Approach Toward Consistent Reconstructions of Indoor Spaces Based on 6D RGB-D Odometry and KinectFusion. ACM Transactions on Intelligent Systems and Technology, 2015, 6, 1-10.	4.5	8
25	Next-Generation Data Center Network Enabled by Machine Learning: Review, Challenges, and Opportunities. IEEE Access, 2021, 9, 136459-136475.	4.2	8
26	Adaptive biarticular muscle force control for humanoid robot arms. , 2012, , .		7
27	Cloud-based rehabilitation exergames system. , 2014, , .		7
28	Adaptive "load-distributed" muscle coordination method for kinematically redundant musculoskeletal humanoid systems. Robotics and Autonomous Systems, 2015, 64, 59-69.	5.1	7
29	Development of a fatigue-tracking system for monitoring human body movement. , 2014, , .		6
30	Development of a 3D interactive virtual market system with adaptive treadmill control. , 2010, , .		5
31	An adaptive treadmill-style locomotion interface and its application in 3-D interactive virtual market system. Intelligent Service Robotics, 2012, 5, 159-167.	2.6	5
32	Development of an automatic 3D human head scanning-printing system. Multimedia Tools and Applications, 2017, 76, 4381-4403.	3.9	5
33	Balance Fatigue Design of Cast Steel Nodes in Tubular Steel Structures. Scientific World Journal, The, 2013, 2013, 1-10.	2.1	4
34	Recovery Prediction in the Framework of Cloud-Based Rehabilitation Exergame. Lecture Notes in Computer Science, 2014, , 256-265.	1.3	4
35	Novel Information Matrix Sparsification Approach for Practical Implementation of Simultaneous Localization and Mapping. Advanced Robotics, 2010, 24, 819-838.	1.8	3
36	Muscle force distribution for adaptive control of a humanoid robot arm with redundant bi-articular and mono-articular muscle mechanism. Artificial Life and Robotics, 2013, 18, 41-51.	1.2	3

#	ARTICLE	IF	CITATIONS
37	Reduced model adaptive force control for carrying human beings with uncertain body dynamics in nursing care. , 2010, , .		2
38	A Fast Laser Motion Detection and Approaching Behavior Monitoring Method for Moving Object Alarm System (MOAS). Procedia Engineering, 2012, 41, 749-756.	1.2	2
39	“Anti-fatigue” control for over-actuated bionic arm with muscle force constraints. , 2013, , .		2
40	ADAPTIVE TREADMILL CONTROL BY HUMAN WILL. , 2010, , .		2
41	Sparsing of information matrix for practical application of a robot's SLAM. , 2009, , .		1
42	To ask or to sense? Planning to integrate speech and sensorimotor acts. , 2012, , .		1
43	Control Strategies of Human Interactive Robot Under Uncertain Environments. , 0, , .		1
44	Human factor affects eye movement pattern during riding motorcycle on the mountain. , 2011, , .		0
45	Sparsing of Information Matrix for Practical Application of SLAM for Autonomous Robots. , 2009, , 295-304.		0
46	Adaptive Control Scheme with Parameter Adaptation - From Human Motor Control to Humanoid Robot Locomotion Control. Lecture Notes in Computer Science, 2011, , 558-568.	1.3	0
47	Modeling and Control of a Humanoid Robot Arm with Redundant Biarticular Muscle Torques. , 2011, , .		0
48	Modeling and Control of a Humanoid Robot Arm with Redundant Biarticular Muscle Torques. , 2012, , .		0
49	Development of a Novel Conversational Calculator Based on Remote Online Computation. Lecture Notes in Computer Science, 2012, , 142-151.	1.3	0