Irma ChacÃ³n

List of Publications by Year
in descending order

43 papers	1,718 citations	394421 19 h-index	395702 33 g-index
43 all docs	43 docs citations	43 times ranked	985 citing authors

#	Article	IF	Citations
1	An Automatic Deep Segmentation Network for Pixel-Level Welding Defect Detection. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	4.7	15
2	Image Denoising of Seam Images With Deep Learning for Laser Vision Seam Tracking. IEEE Sensors Journal, 2022, 22, 6098-6107.	4.7	27
3	Vision-Based Power Line Segmentation With an Attention Fusion Network. IEEE Sensors Journal, 2022, 22, 8196-8205.	4.7	17
4	PLE-Net: Automatic power line extraction method using deep learning from aerial images. Expert Systems With Applications, 2022, 198, 116771.	7.6	14
5	A Vibration Control Method for Hybrid-Structured Flexible Manipulator Based on Sliding Mode Control and Reinforcement Learning. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 841-852.	11.3	33
6	An automatic welding defect location algorithm based on deep learning. NDT and E International, 2021, 120, 102435.	3.7	66
7	Model-Based Robust Tracking Control Without Observers for Soft Bending Actuators. IEEE Robotics and Automation Letters, 2021, 6, 5175-5182.	5.1	12
8	Novel Feature Fusion Module-Based Detector for Small Insulator Defect Detection. IEEE Sensors Journal, 2021, 21, 16807-16814.	4.7	40
9	A Lightweight Defect Detection Algorithm of Insulators for Power Inspection. , 2021, , .		0
10	A hybrid deep segmentation network for fundus vessels via deep-learning framework. Neurocomputing, 2021, 448, 168-178.	5.9	68
11	Efficient Parallel Branch Network With Multi-Scale Feature Fusion for Real-Time Overhead Power Line Segmentation. IEEE Sensors Journal, 2021, 21, 12220-12227.	4.7	22
12	Automatic Detection and Location of Weld Beads With Deep Convolutional Neural Networks. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	21
13	A Fast and Robust Seam Tracking Method for Spatial Circular Weld Based on Laser Visual Sensor. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	7
14	Inspection of Welding Defect Based on Multi-feature Fusion and a Convolutional Network. Journal of Nondestructive Evaluation, 2021, 40, 1.	2.4	19
15	Dynamic Hand Gesture Recognition via Electromyographic Signal Based on Convolutional Neural Network. , 2021, , .		5
16	An Intelligent Fault Location Algorithm of High Voltage Lines Using Cascading Deep Network. , 2021, , .		0
17	Automatic Defect Recognition Method of Aluminium Profile Surface Defects. , 2021, , .		2
18	An Initial Point Alignment and Seam-Tracking System for Narrow Weld. IEEE Transactions on Industrial Informatics, 2020, 16, 877-886.	11.3	49

#	Article	IF	Citations
19	Dynamic Gesture Recognition Based on DS Evidence Theory. , 2020, , .		0
20	An Improved 6D Pose Estimation Method Based on Point Pair Feature. , 2020, , .		3
21	Advances techniques of the structured light sensing in intelligent welding robots: a review. International Journal of Advanced Manufacturing Technology, 2020, 110, 1027-1046.	3.0	44
22	A Review on State-of-the-Art Power Line Inspection Techniques. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 9350-9365.	4.7	141
23	A novel system for off-line 3D seam extraction and path planning based on point cloud segmentation for arc welding robot. Robotics and Computer-Integrated Manufacturing, 2020, 64, 101929.	9.9	83
24	Cross-Domain Segmentation of Fundus Vessels Based on Feature Space Alignment. , 2020, , .		2
25	Apple detection during different growth stages in orchards using the improved YOLO-V3 model. Computers and Electronics in Agriculture, 2019, 157, 417-426.	7.7	639
26	Corrections to "A High-Speed Seam Extraction Method Based on the Novel Structured-Light Sensor for Arc Welding Robot: A Review". IEEE Sensors Journal, 2019, 19, 1590-1590.	4.7	1
27	An Automatic Detection and Identification Method of Welded Joints Based on Deep Neural Network. IEEE Access, 2019, 7, 164952-164961.	4.2	22
28	Insulator Segmentation for Power Line Inspection Based on Modified Conditional Generative Adversarial Network. Journal of Sensors, 2019, 2019, 1-8.	1.1	17
29	A Novel 3D Seam Extraction Method Based on Multi-Functional Sensor for V-Type Weld Seam. IEEE Access, 2019, 7, 182415-182424.	4.2	9
30	A precise seam tracking method for narrow butt seams based on structured light vision sensor. Optics and Laser Technology, 2019, 109, 616-626.	4.6	55
31	An initial point alignment method of narrow weld using laser vision sensor. International Journal of Advanced Manufacturing Technology, 2019, 102, 201-212.	3.0	9
32	A Novel 3-D Path Extraction Method for Arc Welding Robot Based on Stereo Structured Light Sensor. IEEE Sensors Journal, 2019, 19, 763-773.	4.7	59
33	A Precise Initial Weld Point Guiding Method of Micro-Gap Weld Based on Structured Light Vision Sensor. IEEE Sensors Journal, 2019, 19, 322-331.	4.7	47
34	Automatic extraction and identification of narrow butt joint based on ANFIS before GMAW. International Journal of Advanced Manufacturing Technology, 2019, 100, 609-622.	3.0	12
35	A welding quality detection method for arc welding robot based on 3D reconstruction with SFS algorithm. International Journal of Advanced Manufacturing Technology, 2018, 94, 1209-1220.	3.0	54
36	Toward a Cluttered Environment for Learning-Based Multi-Scale Overhead Ground Wire Recognition. Neural Processing Letters, 2018, 48, 1789-1800.	3.2	16

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37	Design of the tip state estimator for hybrid-structured flexible manipulator based on SDFT and FLAKF. Assembly Automation, 2018, 38, 576-586.	1.7	2
38	Analysis and Design of an Effective Light Interference Methane Sensor Based on Three-Dimensional Optical Path Model. Journal of Sensors, 2018, 2018, 1-11.	1.1	2
39	A High-Speed Seam Extraction Method Based on the Novel Structured-Light Sensor for Arc Welding Robot: A Review. IEEE Sensors Journal, 2018, 18, 8631-8641.	4.7	39
40	A new teaching system for arc welding robots with auxiliary path point generation module. , 2016, , .		7
41	The novel control method for the adit data collection system. , 2016, , .		1
42	Modeling and control of a bi-brachiate inspection robot for power transmission lines. , 2010, , .		4
43	Energy-based balance control approach to the ball and beam system. International Journal of Control, 2009, 82, 981-992.	1.9	33