

Irma ChacÃ³n

List of Publications by Year in descending order

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43
papers

1,718
citations

394421

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43
all docs

43
docs citations

43
times ranked

985
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	A Review on State-of-the-Art Power Line Inspection Techniques. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 9350-9365.	4.7	141
3	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
4	A hybrid deep segmentation network for fundus vessels via deep-learning framework. Neurocomputing, 2021, 448, 168-178.	5.9	68
5	An automatic welding defect location algorithm based on deep learning. NDT and E International, 2021, 120, 102435.	3.7	66
6	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
7	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
8	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
9	An Initial Point Alignment and Seam-Tracking System for Narrow Weld. IEEE Transactions on Industrial Informatics, 2020, 16, 877-886.	11.3	49
10	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
11	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
12	Novel Feature Fusion Module-Based Detector for Small Insulator Defect Detection. IEEE Sensors Journal, 2021, 21, 16807-16814.	4.7	40
13	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
14	Energy-based balance control approach to the ball and beam system. International Journal of Control, 2009, 82, 981-992.	1.9	33
15	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
16	Image Denoising of Seam Images With Deep Learning for Laser Vision Seam Tracking. IEEE Sensors Journal, 2022, 22, 6098-6107.	4.7	27
17	An Automatic Detection and Identification Method of Welded Joints Based on Deep Neural Network. IEEE Access, 2019, 7, 164952-164961.	4.2	22
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	Inspection of Welding Defect Based on Multi-feature Fusion and a Convolutional Network. Journal of Nondestructive Evaluation, 2021, 40, 1.	2.4	19
21	Insulator Segmentation for Power Line Inspection Based on Modified Conditional Generative Adversarial Network. Journal of Sensors, 2019, 2019, 1-8.	1.1	17
22	Vision-Based Power Line Segmentation With an Attention Fusion Network. IEEE Sensors Journal, 2022, 22, 8196-8205.	4.7	17
23	Toward a Cluttered Environment for Learning-Based Multi-Scale Overhead Ground Wire Recognition. Neural Processing Letters, 2018, 48, 1789-1800.	3.2	16
24	An Automatic Deep Segmentation Network for Pixel-Level Welding Defect Detection. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	4.7	15
25	PLE-Net: Automatic power line extraction method using deep learning from aerial images. Expert Systems With Applications, 2022, 198, 116771.	7.6	14
26	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
27	Model-Based Robust Tracking Control Without Observers for Soft Bending Actuators. IEEE Robotics and Automation Letters, 2021, 6, 5175-5182.	5.1	12
28	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
29	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
30	A new teaching system for arc welding robots with auxiliary path point generation module. , 2016, , .		7
31	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
32	Dynamic Hand Gesture Recognition via Electromyographic Signal Based on Convolutional Neural Network. , 2021, , .		5
33	Modeling and control of a bi-brachiate inspection robot for power transmission lines. , 2010, , .		4
34	An Improved 6D Pose Estimation Method Based on Point Pair Feature. , 2020, , .		3
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	Cross-Domain Segmentation of Fundus Vessels Based on Feature Space Alignment. , 2020, , .		2
38	Automatic Defect Recognition Method of Aluminium Profile Surface Defects. , 2021, , .		2
39	The novel control method for the adit data collection system. , 2016, , .		1
40	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
41	Dynamic Gesture Recognition Based on DS Evidence Theory. , 2020, , .		0
42	A Lightweight Defect Detection Algorithm of Insulators for Power Inspection. , 2021, , .		0
43	An Intelligent Fault Location Algorithm of High Voltage Lines Using Cascading Deep Network. , 2021, , .		0