Shih-Lun Chen

List of Publications by Year
in descending order

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65 papers	905 citations	516710 16 h-index	501196 28 g-index
65 all docs	65 docs citations	65 times ranked	714 citing authors

#	Article	IF	Citations
1	The Uses of a Dual-Band Corrugated Circularly Polarized Horn Antenna for 5G Systems. Micromachines, 2022, 13, 289.	2.9	2
2	Three-Heartbeat Multilead ECG Recognition Method for Arrhythmia Classification. IEEE Access, 2022, 10, 44046-44061.	4.2	8
3	Efficient and Accurate CORDIC Pipelined Architecture Chip Design Based on Binomial Approximation for Biped Robot. Electronics (Switzerland), 2022, 11, 1701.	3.1	4
4	A Hardware-Oriented Image Compression Algorithm Based on BTC and YEF Color Space. , 2021, , .		1
5	A High-Accuracy and Power-Efficient Self-Optimizing Wireless Water Level Monitoring IoT Device for Smart City. Sensors, 2021, 21, 1936.	3.8	4
6	Detection of Myocardial Infarction Using ECG and Multi-Scale Feature Concatenate. Sensors, 2021, 21, 1906.	3.8	13
7	VLSI Implementation of a Cost-Efficient Loeffler DCT Algorithm with Recursive CORDIC for DCT-Based Encoder. Electronics (Switzerland), 2021, 10, 862.	3.1	2
8	Caries and Restoration Detection Using Bitewing Film Based on Transfer Learning with CNNs. Sensors, 2021, 21, 4613.	3.8	31
9	A Classification and Prediction Hybrid Model Construction with the IQPSO-SVM Algorithm for Atrial Fibrillation Arrhythmia. Sensors, 2021, 21, 5222.	3.8	10
10	Detection of Dental Apical Lesions Using CNNs on Periapical Radiograph. Sensors, 2021, 21, 7049.	3.8	19
11	Bio-medical Image Analysis for Diagnosis and Healthcare Detection System of Skin Cancer. , 2021, , .		1
12	Tooth Position Determination by Automatic Cutting and Marking of Dental Panoramic X-ray Film in Medical Image Processing. Applied Sciences (Switzerland), 2021, 11, 11904.	2.5	8
13	Camphor-Based CVD Bilayer Graphene/Si Heterostructures for Self-Powered and Broadband Photodetection. Micromachines, 2020, 11, 812.	2.9	8
14	Low Cost AIP Design in 5G Flexible Antenna Phase Array System Application. Micromachines, 2020, 11, 851.	2.9	3
15	A Novel Low-Power Synchronous Preamble Data Line Chip Design for Oscillator Control Interface. Electronics (Switzerland), 2020, 9, 1509.	3.1	3
16	Low-Power, Large-Area and High-Performance CdSe Quantum Dots/Reduced Graphene Oxide Photodetectors. IEEE Access, 2020, 8, 95855-95863.	4.2	8
17	Real-time Image Contrast Enhancement VLSI Design for Intelligent Autonomous Vehicles. Journal of Imaging Science and Technology, 2020, 64, 010504-1-010504-11.	0.5	1
18	Lossless CFA Image Compression Chip Design for Wireless Capsule Endoscopy. IEEE Access, 2019, 7, 107047-107057.	4.2	8

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19	A Power-Efficient Multiband Planar USB Dongle Antenna for Wireless Sensor Networks. Sensors, 2019, 19, 2568.	3.8	9
20	Design and Implementation of Real-Time Localization Algorithms Based on FPGA for Positioning and Tracking. , 2019, , .		1
21	Partially green small molecule solar cells. , 2019, , .		0
22	A Low-Power High-Data-Transmission Multi-Lead ECG Acquisition Sensor System. Sensors, 2019, 19, 4996.	3.8	25
23	An efficient image processing methodology based on fuzzy decision for dental shade matching. Journal of Intelligent and Fuzzy Systems, 2019, 36, 1133-1142.	1.4	7
24	Well-aligned Vertically Oriented ZnO Nanorod Arrays and their Application in Inverted Small Molecule Solar Cells. Journal of Visualized Experiments, 2018, , .	0.3	4
25	VLSI implementation of an ultra-low-cost and low-power image compressor for wireless camera networks. Journal of Real-Time Image Processing, 2018, 14, 803-812.	3.5	14
26	White-Light Photosensors Based on Ag Nanoparticle-Reduced Graphene Oxide Hybrid Materials. Micromachines, 2018, 9, 655.	2.9	12
27	A Hardware-Oriented Contrast Enhancement Algorithm for Real-Time Applications. , 2018, , .		3
28	VLSI Implementation of an Efficient Lossless EEG Compression Design for Wireless Body Area Network. Applied Sciences (Switzerland), 2018, 8, 1474.	2.5	12
29	Flexible Signals and Images Lossless Compression Chip Design for IoT and Industry 4.0. , 2018, , .		3
30	Teeth Detection Algorithm and Teeth Condition Classification Based on Convolutional Neural Networks for Dental Panoramic Radiographs. Journal of Medical Imaging and Health Informatics, 2018, 8, 507-515.	0.3	18
31	A Power-Efficient Mixed-Signal Smart ADC Design With Adaptive Resolution and Variable Sampling Rate for Low-Power Applications. IEEE Sensors Journal, 2017, 17, 3461-3469.	4.7	38
32	VLSI Implementation of a Cost-Efficient Micro Control Unit With an Asymmetric Encryption for Wireless Body Sensor Networks. IEEE Access, 2017, 5, 4077-4086.	4.2	31
33	A Cost and Power Efficient Image Compressor VLSI Design With Fuzzy Decision and Block Partition for Wireless Sensor Networks. IEEE Sensors Journal, 2017, 17, 4999-5007.	4.7	10
34	Sparsity analysis of endoscopy images. , 2017, , .		0
35	Enhanced performance of reduced graphene oxide photodetectors by Ag nanoparticles. , 2017, , .		0
36	A Convolutional Neural Network Approach for Dental Panoramic Radiographs Classification. Journal of Medical Imaging and Health Informatics, 2017, 7, 1693-1704.	0.3	12

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37	Novel gray-level mapping of image-quality power control technique for organic light emitting diode displays. , 2016, , .		0
38	VLSI Implementation of a Cost-Efficient Near-Lossless CFA Image Compressor for Wireless Capsule Endoscopy. IEEE Access, 2016, 4, 10235-10245.	4.2	33
39	An efficient micro control unit VLSI design for wearable electronics and sensor networks. , 2016, , .		0
40	A Novel Adaptive Local Dimming Backlight Control Chip Design Based on Gaussian Distribution for Liquid Crystal Displays. Journal of Display Technology, 2016, 12, 1494-1505.	1.2	14
41	Eye detection in CSBS-DP evaluation video. , 2016, , .		1
42	VLSI Implementation of an Adaptive Block Partition Decision Object-Detection Design for Real-Time 4K2K Video Display. Journal of Display Technology, 2016, 12, 1570-1580.	1.2	3
43	Block-based content adaptive backlight controller VLSI design for local dimming LCDs. , 2016, , .		1
44	Automated knowledge discovery and semantic annotation for network and web services. International Journal of Distributed Sensor Networks, 2016, 12, 155014771665792.	2.2	0
45	Switching error concealment algorithm based on optimal decisions for performance and complexity. Multimedia Tools and Applications, 2016, 75, 11199-11219.	3.9	0
46	Hole filling using multiple frames and iterative texture synthesis with illumination compensation. Multimedia Tools and Applications, 2016, 75, 1899-1921.	3.9	2
47	A Power-Efficient Adaptive Fuzzy Resolution Control System for Wireless Body Sensor Networks. IEEE Access, 2015, 3, 743-751.	4.2	60
48	Fully Pipelined Low-Cost and High-Quality Color Demosaicking VLSI Design for Real-Time Video Applications. IEEE Transactions on Circuits and Systems II: Express Briefs, 2015, 62, 588-592.	3.0	15
49	Fully pipelined CORDICâ€based inverse kinematic FPGA design for biped robots. Electronics Letters, 2015, 51, 1241-1243.	1.0	6
50	VLSI architecture of lossless ECG compression design based on fuzzy decision and optimisation method for wearable devices. Electronics Letters, 2015, 51, 1409-1411.	1.0	25
51	Ultraâ€lowâ€cost colour demosaicking VLSI design for realâ€time video applications. Electronics Letters, 2014, 50, 1585-1587.	1.0	3
52	A reconfigurable control system design for wireless body sensor network. , 2014, , .		0
53	VLSI Implementation of an Adaptive Edge-Enhanced Image Scalar for Real-Time Multimedia Applications. IEEE Transactions on Circuits and Systems for Video Technology, 2013, 23, 1510-1522.	8.3	35
54	VLSI Implementation of a Low-Cost High-Quality Image Scaling Processor. IEEE Transactions on Circuits and Systems II: Express Briefs, 2013, 60, 31-35.	3.0	29

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55	Dual glucose/cholesterol meter applications based on FPGA platform. , 2013, , .		2
56	VLSI implementation of a lossless ECG encoder design with fuzzy decision and two-stage Huffman coding for wireless body sensor network. , 2013, , .		3
57	Case-Based Instruction of Digital Integrated Circuit Design Courses for Non-major Undergraduates. , 2013, , .		0
58	An Efficient Micro Control Unit with a Reconfigurable Filter Design for Wireless Body Sensor Networks (WBSNs). Sensors, 2012, 12, 16211-16227.	3.8	53
59	Time Multiplexed VLSI Architecture for Real-Time Barrel Distortion Correction in Video-Endoscopic Images. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 1612-1621.	8.3	23
60	An Asynchronous Multi-Sensor Micro Control Unit for Wireless Body Sensor Networks (WBSNs). Sensors, 2011, 11, 7022-7036.	3.8	49
61	A Low-Cost High-Quality Adaptive Scalar for Real-Time Multimedia Applications. IEEE Transactions on Circuits and Systems for Video Technology, 2011, 21, 1600-1611.	8.3	36
62	Wireless Body Sensor Network With Adaptive Low-Power Design for Biometrics and Healthcare Applications. IEEE Systems Journal, 2009, 3, 398-409.	4.6	131
63	A variable control system for wireless body sensor network. , 2008, , .		6
64	Low-Power 2.4-GHz Transceiver in Wireless Sensor Network for Bio-medical Applications. , 2007, , .		8
65	A Wireless Body Sensor Network System for Healthcare Monitoring Application. , 2007, , .		34