

Mohamed Atri

List of Publications by Year in descending order

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157
papers

2,228
citations

361045

20
h-index

288905

40
g-index

160
all docs

160
docs citations

160
times ranked

1626
citing authors

#	ARTICLE	IF	CITATIONS
1	Face Recognition Systems: A Survey. <i>Sensors</i> , 2020, 20, 342.	2.1	279
2	Deep CNN for Brain Tumor Classification. <i>Neural Processing Letters</i> , 2021, 53, 671-700.	2.0	134
3	A Survey of Localization Systems in Internet of Things. <i>Mobile Networks and Applications</i> , 2019, 24, 761-785.	2.2	122
4	Optimized spatio-temporal descriptors for real-time fall detection: comparison of support vector machine and Adaboost-based classification. <i>Journal of Electronic Imaging</i> , 2013, 22, 041106.	0.5	105
5	Definition and Performance Evaluation of a Robust SVM Based Fall Detection Solution. , 2012, , .		85
6	Electrocardiogram heartbeat classification based on a deep convolutional neural network and focal loss. <i>Computers in Biology and Medicine</i> , 2020, 123, 103866.	3.9	80
7	An Evaluation of RetinaNet on Indoor Object Detection for Blind and Visually Impaired Persons Assistance Navigation. <i>Neural Processing Letters</i> , 2020, 51, 2265-2279.	2.0	71
8	Deep Federated Q-Learning-Based Network Slicing for Industrial IoT. <i>IEEE Transactions on Industrial Informatics</i> , 2021, 17, 5572-5582.	7.2	66
9	Traffic Signs Detection for Real-World Application of an Advanced Driving Assisting System Using Deep Learning. <i>Neural Processing Letters</i> , 2020, 51, 837-851.	2.0	64
10	Localization and Energy-Efficient Data Routing for Unmanned Aerial Vehicles: Fuzzy-Logic-Based Approach. <i>IEEE Communications Magazine</i> , 2018, 56, 129-133.	4.9	58
11	A survey on machine learning in Internet of Things: Algorithms, strategies, and applications. <i>Internet of Things (Netherlands)</i> , 2020, 12, 100314.	4.9	56
12	Generalized Fourier Descriptors with Applications to Objects Recognition in SVM Context. <i>Journal of Mathematical Imaging and Vision</i> , 2008, 30, 43-71.	0.8	54
13	A hybrid feature extraction approach for brain MRI classification based on Bag-of-words. <i>Biomedical Signal Processing and Control</i> , 2019, 48, 144-152.	3.5	54
14	A new fuzzy logic based node localization mechanism for Wireless Sensor Networks. <i>Future Generation Computer Systems</i> , 2019, 93, 799-813.	4.9	52
15	Indoor objects detection and recognition for an ICT mobility assistance of visually impaired people. <i>Multimedia Tools and Applications</i> , 2020, 79, 31645-31662.	2.6	44
16	Deep Learning Based Application for Indoor Scene Recognition. <i>Neural Processing Letters</i> , 2020, 51, 2827-2837.	2.0	41
17	Brain tumor classification based on hybrid approach. <i>Visual Computer</i> , 2022, 38, 107-117.	2.5	34
18	Deep embedded hybrid CNN-LSTM network for lane detection on NVIDIA Jetson Xavier NX. <i>Knowledge-Based Systems</i> , 2022, 240, 107941.	4.0	33

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19	Fast CU partition-based machine learning approach for reducing HEVC complexity. Journal of Real-Time Image Processing, 2020, 17, 185-196.	2.2	29
20	A Convolutional Neural Network to Perform Object Detection and Identification in Visual Large-Scale Data. Big Data, 2021, 9, 41-52.	2.1	25
21	A novel illumination-invariant lane detection system. , 2017, , .		22
22	Strided Convolution Instead of Max Pooling for Memory Efficiency of Convolutional Neural Networks. Smart Innovation, Systems and Technologies, 2020, , 234-243.	0.5	22
23	Human detection based on integral Histograms of Oriented Gradients and SVM. , 2011, , .		21
24	Optimisation of HEVC motion estimation exploiting SAD and SSD GPU-based implementation. IET Image Processing, 2018, 12, 243-253.	1.4	21
25	An FPGA-based accelerator for Fourier Descriptors computing for color object recognition using SVM. Journal of Real-Time Image Processing, 2007, 2, 249-258.	2.2	20
26	3D mesh watermarking using salient points. Multimedia Tools and Applications, 2018, 77, 32287-32309.	2.6	19
27	Optimized parallel implementation of face detection based on GPU component. Microprocessors and Microsystems, 2015, 39, 393-404.	1.8	18
28	Priority-based queuing and transmission rate management using a fuzzy logic controller in WSNs. ICT Express, 2017, 3, 101-105.	3.3	17
29	Real time hardware co-simulation of Edge Detection for video processing system. , 2012, , .		16
30	An efficient low-cost FPGA implementation of a configurable motion estimation for H.264 video coding. Journal of Real-Time Image Processing, 2014, 9, 19-30.	2.2	14
31	Sobel edge detection system design and integration on an FPGA based HD video streaming architecture. , 2016, , .		14
32	Real-time motion estimation diamond search algorithm for the new high efficiency video coding on FPGA. Analog Integrated Circuits and Signal Processing, 2018, 94, 259-276.	0.9	14
33	A novel face detection approach using local binary pattern histogram and support vector machine. , 2018, , .		14
34	An efficient pass-parallel architecture for embedded block coder in JPEG 2000. Journal of Real-Time Image Processing, 2019, 16, 1595-1606.	2.2	14
35	Indoor Image Recognition and Classification via Deep Convolutional Neural Network. Smart Innovation, Systems and Technologies, 2020, , 364-371.	0.5	14
36	To Perform Road Signs Recognition for Autonomous Vehicles Using Cascaded Deep Learning Pipeline. Artificial Intelligence Advances, 2019, 1, 1-10.	0.2	14

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37	Efficient implementation of a real-time lane departure warning system. , 2016, , .		13
38	Image feature extraction algorithm based on CUDA architecture: case study GFD and GCFD. IET Computers and Digital Techniques, 2017, 11, 125-132.	0.9	13
39	Using Xilinx System Generator for Real Time Hardware Co-simulation of Video Processing System. Lecture Notes in Electrical Engineering, 2010, , 227-236.	0.3	13
40	Human action recognition using RGB data. , 2016, , .		12
41	Energy-Saving Performance of an Improved DV-Hop Localization Algorithm for Wireless Sensor Networks. , 2017, , .		12
42	Computer vision algorithms acceleration using graphic processors NVIDIA CUDA. Cluster Computing, 2020, 23, 3335-3347.	3.5	12
43	Fast intra-coding unit partition decision in H.266/FVC based on deep learning. Journal of Real-Time Image Processing, 2020, 17, 1971-1981.	2.2	12
44	Fast motion estimation for HEVC video coding. , 2016, , .		11
45	Indoor Object Classification for Autonomous Navigation Assistance Based on Deep CNN Model. , 2019, , .		11
46	Efficient implementation of Sobel edge detection algorithm on CPU, GPU and FPGA. International Journal of Advanced Media and Communication, 2014, 5, 105.	0.2	10
47	Recognizing signs and doors for Indoor Wayfinding for Blind and Visually Impaired Persons. , 2020, , .		10
48	Automatic landmark detection and 3D Face data extraction. Journal of Computational Science, 2017, 21, 340-348.	1.5	9
49	Real-time stereo matching on CUDA using Fourier descriptors and dynamic programming. Computational Visual Media, 2019, 5, 59-71.	10.8	9
50	Dynamic programming with adaptive and self-adjusting penalty for real-time accurate stereo matching. Journal of Real-Time Image Processing, 2022, 19, 233-245.	2.2	9
51	Design of a 2D Mesh-Torus Router for Network on Chip. , 2007, , .		8
52	CUDA memory optimisation strategies for motion estimation. IET Computers and Digital Techniques, 2019, 13, 20-27.	0.9	8
53	Real-time moving human detection using HOG and Fourier descriptor based on CUDA implementation. Journal of Real-Time Image Processing, 2020, 17, 1841-1856.	2.2	8
54	Deep learning-based application for indoor wayfinding assistance navigation. Multimedia Tools and Applications, 2021, 80, 27115-27130.	2.6	8

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55	An efficient object detection system for indoor assistance navigation using deep learning techniques. Multimedia Tools and Applications, 2022, 81, 16601-16618.	2.6	8
56	Design of New Optimized Architecture Processor for DWT. Real Time Imaging, 2000, 6, 297-312.	1.6	7
57	A Novel Dataset For Intelligent Indoor Object Detection Systems. Artificial Intelligence Advances, 2019, 1, .	0.2	7
58	Design of a NoC-router guaranteeing QoS based on Virtual Channels reservation. , 2008, , .		6
59	Real time FPGA acceleration for discrete wavelet transform of the 5/3 filter for JPEG 2000. , 2012, , .		6
60	Fast Generalized Fourier Descriptor for object recognition of image using CUDA. , 2014, , .		6
61	An efficient hardware implementation of parallel EBCOT algorithm for JPEG 2000. Journal of Real-Time Image Processing, 2016, 11, 63-74.	2.2	6
62	Efficient and high-performance pedestrian detector implementation for intelligent vehicles. IET Intelligent Transport Systems, 2016, 10, 438-444.	1.7	6
63	An efficient end-to-end deep learning architecture for activity classification. Analog Integrated Circuits and Signal Processing, 2019, 99, 23-32.	0.9	6
64	A comparative study of CFs, LBP, HOG, SIFT, SURF, and BRIEF techniques for face recognition. , 2018, , .		6
65	Implementation of JPEG 2000 MQ-Coder. , 2008, , .		5
66	Lossless Image Compression Using Burrows Wheeler Transform (Methods and Techniques). , 2008, , .		5
67	Efficient Hardware/Software Implementation of LPC Algorithm in Speech Coding Applications. Journal of Signal and Information Processing, 2012, 03, 122-129.	0.8	5
68	Preliminary study of block matching algorithms for wavelet-based t+2D video coding. , 2013, , .		5
69	Robust technique for 3D shape reconstruction. Journal of Computational Science, 2017, 21, 333-339.	1.5	5
70	A Dynamic Adaptation Mechanism for Traffic Conditions in Wireless Sensor Network. Wireless Personal Communications, 2018, 101, 1967-1982.	1.8	5
71	Brain MRI classification using discrete wavelet transform and bag-of-words. , 2018, , .		5
72	Optical face detection and recognition system on low-end-low-cost Xilinx Zynq SoC. Optik, 2020, 217, 164747.	1.4	5

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73	In-Depth Performance Evaluation of Network Slicing Strategies in Large Scale Industry 4.0. , 2021, , .		5
74	An evaluation of EfficientDet for object detection used for indoor robots assistance navigation. Journal of Real-Time Image Processing, 2022, 19, 651-661.	2.2	5
75	G729 Voice Decoder Design. Journal of Signal Processing Systems, 2006, 42, 173-184.	1.0	4
76	High-level implementation of Video compression chain coding based on MCTF lifting scheme. , 2013, , .		4
77	Robust spatio-temporal descriptors for real-time SVM-based fall detection. , 2014, , .		4
78	An efficient hardware implementation of MQ decoder of the JPEG2000. Microprocessors and Microsystems, 2014, 38, 659-668.	1.8	4
79	Analysis of the IEEE 802.15.4 MAC Parameters to Achieve Lower Packet Loss Rates. Procedia Computer Science, 2015, 73, 443-451.	1.2	4
80	3D face landmark auto detection. , 2015, , .		4
81	New CSMA/CA prioritisation based on fuzzy control mechanism. International Journal of Intelligent Engineering Informatics, 2017, 5, 253.	0.1	4
82	Lightweight Hardware Architectures for the Piccolo Block Cipher in FPGA. , 2020, , .		4
83	A Flexible High-Level Fusion for an Accurate Human Action Recognition System. Journal of Circuits, Systems and Computers, 2020, 29, 2050190.	1.0	4
84	A Transfer Learning Approach for Indoor Object Identification. SN Computer Science, 2021, 2, 1.	2.3	4
85	Hw/Sw Co-Design technique for 2D fast fourier transform algorithm on Zynq SoC. The Integration VLSI Journal, 2022, 82, 78-88.	1.3	4
86	A Deep CNN-LSTM Framework for Fast Video Coding. Lecture Notes in Computer Science, 2020, , 205-212.	1.0	4
87	Accelerating Fourier Descriptor for Image Recognition Using GPU. Applied Mathematics and Information Sciences, 2016, 10, 297-306.	0.7	4
88	New CSMA/CA prioritisation based on fuzzy control mechanism. International Journal of Intelligent Engineering Informatics, 2017, 5, 253.	0.1	4
89	A new deep CNN for brain tumor classification. , 2020, , .		4
90	Fast FPGA Prototyping based Real-Time Image and Video Processing with High-Level Synthesis. International Journal of Advanced Computer Science and Applications, 2020, 11, .	0.5	4

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91	Network Slicing for Industrial IoT and Industrial Wireless Sensor Network: Deep Federated Learning Approach and Its Implementation Challenges. , 0, , .		4
92	A FPGA-based implementation of JPEG encoder. , 2016, , .		3
93	A Queue Enhanced Backoff Algorithm for wireless sensor networks. , 2017, , .		3
94	Zynq FPGA Based Memory Efficient and Real-Time Harris Corner Detection Algorithm Implementation. , 2018, , .		3
95	Fast Moving Human Detection Using Fourier and HOG Descriptors Based CUDA. , 2018, , .		3
96	Efficient implementation of integral image algorithm on NVIDIA CUDA. , 2018, , .		3
97	Implementation of convolutional-LSTM network based on CPU, GPU and pynq-z1 board. , 2019, , .		3
98	Statistical 3D watermarking algorithm using non negative matrix factorization. Multimedia Tools and Applications, 2020, 79, 25889-25904.	2.6	3
99	Influence of Joule effect on thermal response of nano FinFET transistors. Superlattices and Microstructures, 2021, 156, 106980.	1.4	3
100	Indoor objects detection system implementation using multi-graphic processing units. Cluster Computing, 2022, 25, 469-483.	3.5	3
101	Efficient 2D Convolution Filters Implementations on Graphics Processing Unit Using NVIDIA CUDA. International Journal of Image Graphics and Signal Processing, 2018, 10, 1-8.	0.8	3
102	An efficient hardware implementation of Diamond Search motion estimation using CAL dataflow language. , 2011, , .		2
103	Efficient smart-camera accelerator: A configurable motion estimator dedicated to video codec. Journal of Systems Architecture, 2013, 59, 870-877.	2.5	2
104	Integral image computation on GPU. , 2013, , .		2
105	A high performance MQ decoder architecture in JPEG2000. , 2014, , .		2
106	High-level design for image processing on FPGA using Xilinx AccelDSP. , 2014, , .		2
107	Efficient implementation of sobel filter based on GPUs cards. , 2016, , .		2
108	Statistical robust watermarking for 3D mesh models based on salient points. , 2016, , .		2

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109	A Novel Robust Statistical Watermarking of 3D Meshes. Communications in Computer and Information Science, 2017, , 27-38.	0.4	2
110	Robust auto calibration technique for stereo camera. , 2017, , .		2
111	Real Time Stereo Matching Using Two Step Zero-Mean SAD and Dynamic Programing. , 2018, , .		2
112	A real-time auto calibration technique for stereo camera. International Journal of Computer Aided Engineering and Technology, 2020, 12, 74.	0.1	2
113	Multidatabase ECG signal processing. , 2020, , .		2
114	Spatio-Temporal Wavelet Based Video Compression: a Simulink Implementation for Acceleration. International Review on Computers and Software, 2015, 10, 513.	0.1	2
115	High-reliability Vehicle Detection and Lane Collision Warning System. International Journal of Wireless and Microwave Technologies, 2018, 8, 1-14.	0.8	2
116	Parallel Full Search Algorithm for Motion Estimation on Graphic Processing Unit. Recent Advances in Electrical and Electronic Engineering, 2019, 12, 317-323.	0.2	2
117	A novel automatic approach for glioma segmentation. Neural Computing and Applications, 0, , .	3.2	2
118	A Improved Fast Motion Block Matching for Wavelet Video Coding. , 2007, , .		1
119	A SystemC QoS router design with virtual channels reservation in a wormhole-switched NoC. , 2008, , .		1
120	Cost/performance evaluation for a 3D symmetric NoC router. , 2014, , .		1
121	Hardware implementation of GCFD for color images recognition. , 2014, , .		1
122	An efficient, high speed architecture for JPEG2000 MQ-coder. , 2014, , .		1
123	Pedestrian detection using covariance features. , 2014, , .		1
124	Channel length effect on heat transfer process in nano MOSFETs. , 2017, , .		1
125	Execution-time optimization based on thread and block repartitions on a graphic processing unit. , 2017, , .		1
126	Fast Motion Estimationâ€™s Configuration Using Diamond Pattern and ECU, CFM, and ESD Modes for Reducing HEVC Computational Complexity. , 0, , .		1

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127	Machine Learning Modelling-Powered IoT Systems for Smart Applications. Lecture Notes on Data Engineering and Communications Technologies, 2021, , 185-212.	0.5	1
128	Indoor sign Detection System for Indoor Assistance Navigation. , 2021, , .		1
129	Desertification Detection in Makkah Region based on Aerial Images Classification. Computer Systems Science and Engineering, 2022, 40, 607-618.	1.9	1
130	Hardware Implementation of a Configurable Motion Estimator for Adjusting the Video Coding Performances. Lecture Notes in Computer Science, 2012, , 96-107.	1.0	1
131	Investigation of Dual-Phase-Lag Model with Robin Boundary Condition in Metal-Oxide-Semiconductor-Field-Effect Transistor. Journal of Computational and Theoretical Nanoscience, 2018, 15, 3114-3117.	0.4	1
132	Naive Bayesian Fusion for Action Recognition from Kinect. , 2017, , .		1
133	FPGA Prototyping and Design Evaluation of a NoC-Based MPSoC. International Journal of Advanced Computer Science and Applications, 2017, 8, .	0.5	1
134	Zynq FPGA based and Optimized Design of Points of Interest Detection and Tracking in Moving Images for Mobility System. International Journal of Advanced Computer Science and Applications, 2018, 9, .	0.5	1
135	Distributed Q-learning based-Decentralized Resource Allocation for Future Wireless Networks. , 2020, , .		1
136	SVM-based Inter Prediction Mode Decision for HEVC. , 2020, , .		1
137	Glioma segmentation based on deep CNN. , 2022, , .		1
138	Design of an adaptive flow control algorithm for ATM networks. , 0, , .		0
139	Rapid Prototyping IP for Autocorrelation Computation. , 2007, , .		0
140	On Hardware Implementation of DCT/IDCT for Image Processing. , 2008, , .		0
141	Software, hardware and co-simulation for detecting and tracking moving objects. , 2011, , .		0
142	Evaluation of the performance of block matching algorithms in wavelet-based t+2D video coding. , 2012, , .		0
143	Contribution to the realization of a video surveillance system by optical flow and stereovision. , 2014, , .		0
144	MatLab acceleration for DWT “Daubechies 9/7” for JPEG2000 standard on GPU. , 2014, , .		0

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145	Fusion of three techniques for person detection in real time. , 2014, , .		0
146	Analysis and implementation of parallel causal bit plane coding in JPEG2000 standard. , 2014, , .		0
147	Area efficient, high speed VLSI design for BPC coder in JPEG 2000. , 2014, , .		0
148	A novel mechanism for indoor localization in wireless sensor networks. , 2017, , .		0
149	Optimization and performance evaluation of graphic processing units for voice processing. Journal of Algorithms and Computational Technology, 2017, 11, 388-394.	0.4	0
150	Accelerated Moving Humans Detection Algorithm using Combined Global Descriptors on GPU Based on CUDA. Smart Sensors, Measurement and Instrumentation, 2021, , 83-96.	0.4	0
151	A Novel Real-Time Lighting-Invariant Lane Departure Warning System. Advances in Information Security, Privacy, and Ethics Book Series, 2018, , 231-252.	0.4	0
152	Long-term Robust Tracking whith on Failure Recovery. Telkomnika (Telecommunication Computing) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.6	0
153	Comparison of FPGA and GPU Implementations of LPC Algorithm for Voice Processing. Recent Advances in Electrical and Electronic Engineering, 2018, 11, 188-193.	0.2	0
154	Implementation of Robust Tracking Algorithm on Nano-Computer. Indonesian Journal of Electrical Engineering and Computer Science, 2018, 11, 446.	0.7	0
155	Analysis and Classification Techniques of ECG Signals. , 2019, , .		0
156	A Real-Time Auto Calibration Technique for Stereo Camera. International Journal of Computer Aided Engineering and Technology, 2020, 12, 1.	0.1	0
157	Comparative Study of Face Recognition Approaches. , 2020, , .		0