

# Mahmood Fathy

## List of Publications by Year in descending order

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121  
papers

3,644  
citations

430874

18  
h-index

223800

46  
g-index

121  
all docs

121  
docs citations

121  
times ranked

3138  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adversarially Learned One-Class Classifier for Novelty Detection. , 2018, , .		419
2	Vehicular Ad Hoc Networks (VANETs): Challenges and Perspectives. , 2006, , .		380
3	Analytical Model for Connectivity in Vehicular Ad Hoc Networks. IEEE Transactions on Vehicular Technology, 2008, 57, 3341-3356.	6.3	368
4	Deep-anomaly: Fully convolutional neural network for fast anomaly detection in crowded scenes. Computer Vision and Image Understanding, 2018, 172, 88-97.	4.7	300
5	Deep-Cascade: Cascading 3D Deep Neural Networks for Fast Anomaly Detection and Localization in Crowded Scenes. IEEE Transactions on Image Processing, 2017, 26, 1992-2004.	9.8	267
6	Bi-Directional ConvLSTM U-Net with Densely Connected Convolutions. , 2019, , .		209
7	Driver behavior detection and classification using deep convolutional neural networks. Expert Systems With Applications, 2020, 149, 113240.	7.6	172
8	An Iranian License Plate Recognition System Based on Color Features. IEEE Transactions on Intelligent Transportation Systems, 2014, 15, 1690-1705.	8.0	132
9	Video anomaly detection and localisation based on the sparsity and reconstruction error of auto-encoder. Electronics Letters, 2016, 52, 1122-1124.	1.0	130
10	Real-time anomaly detection and localization in crowded scenes. , 2015, , .		129
11	A Driver Face Monitoring System for Fatigue and Distraction Detection. International Journal of Vehicular Technology, 2013, 2013, 1-11.	1.1	106
12	Enhancing AODV routing protocol using mobility parameters in VANET. , 2008, , .		75
13	A Review on Driver Face Monitoring Systems for Fatigue and Distraction Detection. International Journal of Advanced Science and Technology, 2014, 64, 73-100.	0.3	75
14	Improving connectivity in vehicular ad hoc networks: An analytical study. Computer Communications, 2008, 31, 1653-1659.	5.1	71
15	Deep End-to-End One-Class Classifier. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 675-684.	11.3	48
16	Attention Deeplabv3+: Multi-level Context Attention Mechanism for Skin Lesion Segmentation. Lecture Notes in Computer Science, 2020, , 251-266.	1.3	34
17	Robust watermarking scheme based on RDWT-SVD: Embedding data in all subbands. , 2011, , .		33
18	METRICS FOR PERFORMANCE EVALUATION OF SAFETY APPLICATIONS IN VEHICULAR AD HOC NETWORKS. Transport, 2008, 23, 291-298.	1.2	30

#	ARTICLE	IF	CITATIONS
19	A Reliable Method for Disseminating Safety Information in Vehicular Ad Hoc Networks Considering Fragmentation Problem. , 2008, , .		29
20	AVID: Adversarial Visual Irregularity Detection. Lecture Notes in Computer Science, 2019, , 488-505.	1.3	29
21	ECCN: an extended CCN architecture to improve data access in vehicular content-centric network. Journal of Supercomputing, 2018, 74, 205-221.	3.6	28
22	Multi-View Human Activity Recognition in Distributed Camera Sensor Networks. Sensors, 2013, 13, 8750-8770.	3.8	24
23	The improvement in obstacle detection in autonomous vehicles using YOLO non-maximum suppression fuzzy algorithm. Journal of Supercomputing, 2021, 77, 13421-13446.	3.6	23
24	Deep-HR: Fast heart rate estimation from face video under realistic conditions. Expert Systems With Applications, 2021, 186, 115596.	7.6	23
25	Object Tracking Using Improved CAMShift Algorithm Combined with Motion Segmentation. , 2011, , .		22
26	Optimal road side units placement model based on binary integer programming for efficient traffic information advertisement and discovery in vehicular environment. IET Intelligent Transport Systems, 2015, 9, 851-861.	3.0	22
27	Connectivity in vehicular ad hoc networks in presence wireless mobile base-stations. , 2007, , .		18
28	Fast and accurate detection and localization of abnormal behavior in crowded scenes. Machine Vision and Applications, 2017, 28, 965-985.	2.7	18
29	Adaptive end-to-end QoS for multimedia over heterogeneous wireless networks. Computers and Electrical Engineering, 2010, 36, 45-55.	4.8	17
30	Improving QoS in VANET Using MPLS. Procedia Computer Science, 2012, 10, 1018-1025.	2.0	17
31	An efficient infrastructure based service discovery in vehicular networks using P2P structures. Journal of Supercomputing, 2016, 72, 1013-1034.	3.6	17
32	Optimization-based power and thermal management for dark silicon aware 3D chip multiprocessors using heterogeneous cache hierarchy. Microprocessors and Microsystems, 2017, 51, 76-98.	2.8	17
33	STFCN: Spatio-Temporal Fully Convolutional Neural Network for Semantic Segmentation of Street Scenes. Lecture Notes in Computer Science, 2017, , 493-509.	1.3	16
34	Optimized Routing Based on Mobility Prediction in Wireless Mobile Adhoc Networks for Urban Area. , 2008, , .		14
35	Non-negative matrix completion for action detection. Image and Vision Computing, 2015, 39, 38-51.	4.5	14
36	A hierarchical, scalable architecture for a real-time monitoring system for an electrocardiography, using context-aware computing. Journal of Biomedical Informatics, 2019, 96, 103251.	4.3	14

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37	Improving the learning of self-driving vehicles based on real driving behavior using deep neural network techniques. <i>Journal of Supercomputing</i> , 2021, 77, 3752-3794.	3.6	14
38	Switching Structured Prediction for Simple and Complex Human Activity Recognition. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 5859-5870.	9.5	13
39	A systematic literature review of vehicle speed assistance in intelligent transportation system. <i>IET Intelligent Transport Systems</i> , 2021, 15, 973-986.	3.0	13
40	Modeling and optimizing Random Walk content discovery protocol over mobile ad-hoc networks. <i>Performance Evaluation</i> , 2014, 74, 18-29.	1.2	11
41	AVLR-EBP: A Variable Step Size Approach to Speed-up the Convergence of Error Back-Propagation Algorithm. <i>Neural Processing Letters</i> , 2011, 33, 201-214.	3.2	10
42	A novel approach for Finger Vein verification based on self-taught learning. , 2015, , .		9
43	Improving logic function synthesis, through wire crossing reduction in quantum cellular automata layout. <i>IET Circuits, Devices and Systems</i> , 2015, 9, 265-274.	1.4	8
44	Multi-label Discriminative Weakly-Supervised Human Activity Recognition and Localization. <i>Lecture Notes in Computer Science</i> , 2015, , 241-258.	1.3	8
45	Online failure detection and correction for CAMShift tracking algorithm. , 2013, , .		7
46	Informative visual words construction to improve bag of words image representation. <i>IET Image Processing</i> , 2014, 8, 310-318.	2.5	7
47	Energy efficient 3D Hybrid processor-memory architecture for the dark silicon age. , 2015, , .		7
48	Identifying functional cancer-specific miRNA-mRNA interactions in testicular germ cell tumor. <i>Journal of Theoretical Biology</i> , 2016, 404, 82-96.	1.7	7
49	Structured prediction with short/long-range dependencies for human activity recognition from depth skeleton data. , 2017, , .		7
50	An Evolutionary Game Approach to Safety-Aware Speed Recommendation in Fog/Cloud-Based Intelligent Transportation Systems. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 7431-7440.	8.0	7
51	Using pattern matching for tiling and packing problems. <i>European Journal of Operational Research</i> , 2007, 183, 950-960.	5.7	6
52	An Enhanced Fault-Tolerant Routing Algorithm for Mesh Network-on-Chip. , 2009, , .		6
53	Impact of Mobility on Performance of P2P Content Discovery Protocols Over MANET. <i>Procedia Computer Science</i> , 2012, 10, 642-649.	2.0	6
54	The impact of mobility models on the performance of P2P content discovery protocols over mobile ad hoc networks. <i>Peer-to-Peer Networking and Applications</i> , 2014, 7, 66-85.	3.9	6

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55	An energy efficient non-uniform Last Level Cache Architecture in 3D chip-multiprocessors. , 2017, , .		6
56	Notice of Violation of IEEE Publication Principles: An Energy-Efficient Heterogeneous Memory Architecture for Future Dark Silicon Embedded Chip-Multiprocessors. IEEE Transactions on Emerging Topics in Computing, 2024, , 1-1.	4.6	6
57	QR Decomposition-Based Algorithm for Background Subtraction. , 2007, , .		5
58	Wireless TCP-Friendly Rate Control over the DCCP Transport Protocol. , 2008, , .		5
59	Key frames selection into panoramic mosaics. , 2009, , .		5
60	Regional Varying Image Super-Resolution. , 2009, , .		5
61	A Two Level Architecture for High Throughput DCT-Processor and Implementing on FPGA. , 2010, , .		5
62	A neighbor-based holdoff reduction scheme for distributed scheduling in wireless mesh networks. , 2010, , .		5
63	BILBO-friendly hybrid BIST architecture with asymmetric polynomial reseeding. , 2012, , .		5
64	Alignment-free fingerprint cryptosystem based on multiple fuzzy vaults. , 2015, , .		5
65	Exploiting non-uniformity of write accesses for designing a high-endurance hybrid Last Level Cache in 3D CMPs. , 2017, , .		5
66	Energy aware and reliable STT-RAM based cache design for 3D embedded chip-multiprocessors. , 2017, , .		5
67	Low-power heterogeneous uncore architecture for future 3D chip-multiprocessors. ETRI Journal, 2018, 40, 759-773.	2.0	5
68	Skeleton-based structured early activity prediction. Multimedia Tools and Applications, 2021, 80, 23023-23049.	3.9	5
69	A new compression based approach for reconfiguration overhead reduction in virtex based RTR systems. Computers and Electrical Engineering, 2006, 32, 322-347.	4.8	4
70	Reliable NoC architecture utilizing a robust rerouting algorithm. , 2008, , .		4
71	Exploiting Heterogeneity in Cache Hierarchy in Dark-Silicon 3D Chip Multi-processors. , 2015, , .		4
72	Facial expression recognition with discriminatory graphical models. , 2016, , .		4

#	ARTICLE	IF	CITATIONS
73	An energy-efficient 3D-stacked STT-RAM cache architecture for cloud processors: the effect on emerging scale-out workloads. Journal of Supercomputing, 2018, 74, 1547-1561.	3.6	4
74	Reduction of Power Consumption in Cloud Data Centers via Dynamic Migration of Virtual Machines. International Journal of Information and Education Technology, 2016, 6, 286-290.	1.2	4
75	Secure Safety Messages Broadcasting in Vehicular Network. , 2009, , .		3
76	A Content Sharing and Discovery Framework Based on Semantic and Geographic Partitioning for Vehicular Networks. Wireless Personal Communications, 2015, 85, 1583-1616.	2.7	3
77	An improved scheme for pre-computed patterns in core-based SoC architecture. , 2016, , .		3
78	UCA. , 2016, , .		3
79	Generative Adversarial Irregularity Detection in Mammography Images. Lecture Notes in Computer Science, 2019, , 94-104.	1.3	3
80	Pedestrian Detection from a Moving Camera with an Advanced Camera-Motion Estimator. , 2007, , .		2
81	A low-cost strong shadow-based segmentation approach for vehicle tracking in congested traffic scenes. , 2007, , .		2
82	A Predominant Routing for on-chip networks. , 2009, , .		2
83	Improving coverage in mobile sensor networks using overlap concept. , 2009, , .		2
84	Planning VANET infrastructures to improve safety awareness in curved roads. Journal of Zhejiang University: Science C, 2012, 13, 918-928.	0.7	2
85	Mobile target tracking in non-overlapping wireless visual sensor Networks using Neural Networks. , 2013, , .		2
86	A two-purpose peer-to-peer structure for vehicle navigating and traffic information disseminating in vehicular networks. , 2014, , .		2
87	Distributed matrix completion for large-scale multi-label classification. Intelligent Data Analysis, 2014, 18, 1137-1151.	0.9	2
88	Performance Analysis and Improvement Content Discovery Protocols Over Vehicular Networks. Wireless Personal Communications, 2014, 75, 857-899.	2.7	2
89	OptMem: Dark-silicon aware low latency hybrid memory design. , 2016, , .		2
90	A method to predict travel time in large-scale urban areas using Vehicular Networks. , 2018, , .		2

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91	An Energy-Efficient Reliable Heterogeneous Uncore Architecture for Future 3D Chip-Multiprocessors. Journal of Circuits, Systems and Computers, 2019, 28, 1950224.	1.5	2
92	Developing and Evaluating A Real time and Energy Efficient Architecture for An Internet of Health Things. , 2020, , .		2
93	Design of New Scheduling Algorithm for Ad hoc Networks with Capability of Differential Service. , 2006, , .		1
94	Channel access delay analysis of IEEE 802-16 Best Effort services. , 2008, , .		1
95	AIMD-TCP-Friendly Rate Control Over Wireless Networks. , 2008, , .		1
96	A new low cost fault tolerant solution for mesh based NoCs. , 2010, , .		1
97	Using spatial correlations in distributed video coding. , 2011, , .		1
98	Extracting a cancer model by enhanced ant colony optimisation algorithm. International Journal of Data Mining and Bioinformatics, 2014, 10, 83.	0.1	1
99	Hybrid stacked memory architecture for energy efficient embedded chip-multiprocessors based on compiler directed approach. , 2015, , .		1
100	An effective algorithm for fingerprint reference point detection based on filed flow curves. , 2015, , .		1
101	A probabilistic graphical model approach for human activity recognition using skeleton data. , 2016, , .		1
102	High performance 3D CMP design with stacked hybrid memory architecture in the dark silicon era using a convex optimization model. , 2016, , .		1
103	A new traffic compression method for end-to-end memory accesses in 3D chip-multiprocessors. , 2017, , .		1
104	Optimal Placement of Heterogeneous Uncore Component in 3D Chip-Multiprocessors. , 2017, , .		1
105	Optimization-based reconfigurable approach for low-power 3D chip-multiprocessors. , 2018, , .		1
106	An Optimized Two-Purpose Peer-to-Peer VANET to Disseminate Traffic Information and Reduce Travel Time. International Journal of Future Computer and Communication, 2015, 4, 1-6.	1.3	1
107	Driving Violation Detection Using Vehicle Data and Environmental Conditions. , 2021, , .		1
108	A High Performance Parallel IP Lookup Technique Based on Multiprocessor Organization and CREW PRAM. , 2008, , .		0

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109	Availability measurement in peer to peer network management systems. , 2008, , .		0
110	A similarity-window based background estimation approach. , 2008, , .		0
111	Reducing sensors' movement using simple iterative virtual movement. , 2010, , .		0
112	Improving the availability of P2P-based network management systems by provisioning fault tolerance property. Journal of Supercomputing, 2012, 61, 912-934.	3.6	0
113	Image inpainting with prioritizing of hole's pixels. , 2012, , .		0
114	A probabilistic approach for video stabilisation in compressed domain. Imaging Science Journal, 2014, 62, 197-205.	0.5	0
115	A high-performance hybrid memory architecture for embedded CMPs using a convex optimization model. , 2015, , .		0
116	Lighting the Dark-Silicon 3D Chip Multi-processors by Exploiting Heterogeneity in Cache Hierarchy. , 2015, , .		0
117	Notice of Violation of IEEE Publication Principles: A heterogeneous memory organization with minimum energy consumption in 3D chip-multiprocessors. , 2016, , .		0
118	Reliability and Power Optimization in 3D-Stacked Cache Using a Run-Time Reconfiguration Procedure. , 2017, , .		0
119	NIZCache: Energy-efficient Non-uniform Cache Architecture for Chip-multiprocessors Based on Invalid and Zero Lines. , 2018, , .		0
120	A Graph-based Model for RSUs Deployment in Vehicular Networks by Considering Urban and Network Limitations and QoS Requirements of Service Advertisement and Discovery. KSII Transactions on Internet and Information Systems, 2015, 9, .	0.3	0
121	Power Modeling and Runtime Performance Optimization of Power Limited Many-Core Systems Based on a Dynamic Adaptive Approach. Journal of Low Power Electronics, 2017, 13, 166-195.	0.6	0