Arif Mahmood

List of Publications by Year
in descending order

93 papers	2,232 citations	279487 23 h-index	264894 42 g-index
96 all docs	96 docs citations	96 times ranked	2026 citing authors

#	Article	IF	Citations
1	Histogram of Oriented Principal Components for Cross-View Action Recognition. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2016, 38, 2430-2443.	9.7	135
2	Hyperspectral Face Recognition With Spatiospectral Information Fusion and PLS Regression. IEEE Transactions on Image Processing, 2015, 24, 1127-1137.	6.0	130
3	Background–Foreground Modeling Based on Spatiotemporal Sparse Subspace Clustering. IEEE Transactions on Image Processing, 2017, 26, 5840-5854.	6.0	103
4	HOPC: Histogram of Oriented Principal Components of 3D Pointclouds for Action Recognition. Lecture Notes in Computer Science, 2014, , 742-757.	1.0	95
5	Correlation-Coefficient-Based Fast Template Matching Through Partial Elimination. IEEE Transactions on Image Processing, 2012, 21, 2099-2108.	6.0	92
6	Handcrafted and Deep Trackers. ACM Computing Surveys, 2020, 52, 1-44.	16.1	91
7	Cellular community detection for tissue phenotyping in colorectal cancer histology images. Medical Image Analysis, 2020, 63, 101696.	7.0	87
8	Moving Object Detection in Complex Scene Using Spatiotemporal Structured-Sparse RPCA. IEEE Transactions on Image Processing, 2019, 28, 1007-1022.	6.0	82
9	Internal Emotion Classification Using EEG Signal With Sparse Discriminative Ensemble. IEEE Access, 2019, 7, 40144-40153.	2.6	80
10	Real time action recognition using histograms of depth gradients and random decision forests. , 2014, , .		78
11	Multi-focus image fusion using Content Adaptive Blurring. Information Fusion, 2019, 45, 96-112.	11.7	77
12	Spatiotemporal Low-Rank Modeling for Complex Scene Background Initialization. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 1315-1329.	5.6	68
13	Hyperspectral Face Recognition using 3D-DCT and Partial Least Squares. , 2013, , .		61
14	Subspace Based Network Community Detection Using Sparse Linear Coding. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 801-812.	4.0	59
15	A Self-Reasoning Framework for Anomaly Detection Using Video-Level Labels. IEEE Signal Processing Letters, 2020, 27, 1705-1709.	2.1	59
16	Unsupervised deep context prediction for background estimation and foreground segmentation. Machine Vision and Applications, 2019, 30, 375-395.	1.7	52
17	Palmprint Identification Using an Ensemble of Sparse Representations. IEEE Access, 2018, 6, 3241-3248.	2.6	50
18	Dynamic workload patterns prediction for proactive auto-scaling of web applications. Journal of Network and Computer Applications, 2018, 124, 94-107.	5.8	40

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19	Exploiting Transitivity of Correlation for Fast Template Matching. IEEE Transactions on Image Processing, 2010, 19, 2190-2200.	6.0	33
20	Discriminative human action classification using locality-constrained linear coding. Pattern Recognition Letters, 2016, 72, 62-71.	2.6	33
21	Predictive Autoscaling of Microservices Hosted in Fog Microdata Center. IEEE Systems Journal, 2021, 15, 1275-1286.	2.9	33
22	Semi-supervised Spectral Clustering for Image Set Classification. , 2014, , .		31
23	Canny edge detection and Hough transform for high resolution video streams using Hadoop and Spark. Cluster Computing, 2020, 23, 397-408.	3.5	31
24	Using Geodesic Space Density Gradients for Network Community Detection. IEEE Transactions on Knowledge and Data Engineering, 2017, 29, 921-935.	4.0	30
25	Multiplex Cellular Communities in Multi-Gigapixel Colorectal Cancer Histology Images for Tissue Phenotyping. IEEE Transactions on Image Processing, 2020, 29, 9204-9219.	6.0	29
26	Motion-Aware Graph Regularized RPCA for background modeling of complex scenes. , 2016, , .		28
27	Periocular region-based person identification in the visible, infrared and hyperspectral imagery. Neurocomputing, 2015, 149, 854-867.	3.5	26
28	Using Temporal Covariance of Motion and Geometric Features via Boosting for Human Fall Detection. Sensors, 2018, 18, 1918.	2.1	22
29	Is spectral reflectance of the face a reliable biometric?. Optics Express, 2015, 23, 15160.	1.7	21
30	Predictive Auto-Scaling of Multi-Tier Applications Using Performance Varying Cloud Resources. IEEE Transactions on Cloud Computing, 2022, 10, 595-607.	3.1	21
31	Image de-fencing framework with hybrid inpainting algorithm. Signal, Image and Video Processing, 2016, 10, 1193-1201.	1.7	20
32	Action Classification with Locality-Constrained Linear Coding. , 2014, , .		19
33	Deep Latent Space Learning for Cross-Modal Mapping of Audio and Visual Signals. , 2019, , .		19
34	Periocular biometric recognition using image sets. , 2013, , .		17
35	Multi-Order Statistical Descriptors for Real-Time Face Recognition and Object Classification. IEEE Access, 2018, 6, 12993-13004.	2.6	17
36	Unsupervised Moving Object Detection in Complex Scenes Using Adversarial Regularizations. IEEE Transactions on Multimedia, 2021, 23, 2005-2018.	5.2	17

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37	Robust Structural Low-Rank Tracking. IEEE Transactions on Image Processing, 2020, 29, 4390-4405.	6.0	15
38	Reconstruction of Time-Varying Graph Signals via Sobolev Smoothness. IEEE Transactions on Signal and Information Processing Over Networks, 2022, 8, 201-214.	1.6	14
39	Illustrate It! An Arabic Multimedia Text-to-Picture m-Learning System. IEEE Access, 2017, 5, 12777-12787.	2.6	13
40	Nucleus classification in histology images using message passing network. Medical Image Analysis, 2022, 79, 102480.	7.0	13
41	A compact discriminative representation for efficient image-set classification with application to biometric recognition. , 2013, , .		12
42	Cross-modal Speaker Verification and Recognition: A Multilingual Perspective. , 2021, , .		11
43	Spatially Constrained Context-Aware Hierarchical Deep Correlation Filters for Nucleus Detection in Histology Images. Medical Image Analysis, 2021, 72, 102104.	7.0	11
44	Robustness analysis of superpixel algorithms to image blur, additive Gaussian noise, and impulse noise. Journal of Electronic Imaging, 2017, 26, 1.	0.5	11
45	Image inpainting based on pyramids. , 2010, , .		10
46	Web Application Resource Requirements Estimation based on the Workload Latent Features. IEEE Transactions on Services Computing, 2019, , 1-1.	3.2	10
47	Learning Soft Mask Based Feature Fusion with Channel and Spatial Attention for Robust Visual Object Tracking. Sensors, 2020, 20, 4021.	2.1	10
48	Hierarchical Spatiotemporal Graph Regularized Discriminative Correlation Filter for Visual Object Tracking. IEEE Transactions on Cybernetics, 2022, 52, 12259-12274.	6.2	10
49	Human face super-resolution on poor quality surveillance video footage. Neural Computing and Applications, 2021, 33, 13505-13523.	3.2	10
50	An Anomaly Detection System via Moving Surveillance Robots with Human Collaboration. , 2021, , .		10
51	Early Termination Algorithms for Correlation Coefficient Based Block Matching. , 2007, , .		9
52	Improving Chlorophyll-A Estimation From Sentinel-2 (MSI) in the Barents Sea Using Machine Learning. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 5529-5549.	2.3	9
53	Improving Object Tracking by Added Noise and Channel Attention. Sensors, 2020, 20, 3780.	2.1	8
54	Image Morphing in Frequency Domain. Journal of Mathematical Imaging and Vision, 2012, 42, 50-63.	0.8	7

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55	Do Cross Modal Systems Leverage Semantic Relationships?. , 2019, , .		7
56	An information fusion framework for person localization via body pose in spectator crowds. Information Fusion, 2019, 51, 178-188.	11.7	7
57	Masked Linear Regression for Learning Local Receptive Fields for Facial Expression Synthesis. International Journal of Computer Vision, 2020, 128, 1433-1454.	10.9	7
58	A Novel Algorithm Based on a Common Subspace Fusion for Visual Object Tracking. IEEE Access, 2022, 10, 24690-24703.	2.6	7
59	An image composition algorithm for handling global visual effects. Multimedia Tools and Applications, 2014, 71, 1699-1716.	2.6	6
60	Constrained Metric Learning by Permutation Inducing Isometries. IEEE Transactions on Image Processing, 2016, 25, 92-103.	6.0	6
61	Convolutional neural network with structural input for visual object tracking. , 2019, , .		6
62	Structural Low-Rank Tracking. , 2019, , .		6
63	Leveraging orientation for weakly supervised object detection with application to firearm localization. Neurocomputing, 2021, 440, 310-320.	3.5	6
64	An End-to-End Human Abnormal Behavior Recognition Framework for Crowds With Mentally Disordered Individuals. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 3618-3625.	3.9	6
65	Fake visual content detection using two-stream convolutional neural networks. Neural Computing and Applications, 2022, 34, 7991-8004.	3.2	6
66	Unsupervised moving object segmentation using background subtraction and optimal adversarial noise sample search. Pattern Recognition, 2022, 129, 108719.	5.1	6
67	Deep Siamese Networks toward Robust Visual Tracking. , 2019, , .		5
68	Statistically correlated multi-task learning for autonomous driving. Neural Computing and Applications, 2021, 33, 12921-12938.	3.2	5
69	4G-VOS: Video Object Segmentation using guided context embedding. Knowledge-Based Systems, 2021, 231, 107401.	4.0	5
70	Exploiting Inter-frame Correlation for Fast Video to Reference Image Alignment. , 2007, , 647-656.		5
71	CS-RPCA: Clustered Sparse RPCA for Moving Object Detection. , 2020, , .		5
72	Hierarchical Sparse Spectral Clustering For Image Set Classification. , 2012, , .		5

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73	Multi-level feature fusion for nucleus detection in histology images using correlation filters. Computers in Biology and Medicine, 2022, 143, 105281.	3.9	5
74	Exploiting local auto-correlation function for fast video to reference image alignment. , 2008, , .		4
75	Complete Moving Object Detection in the Context of Robust Subspace Learning. , 2019, , .		4
76	Unsupervised Adversarial Learning for Dynamic Background Modeling. Communications in Computer and Information Science, 2020, , 248-261.	0.4	4
77	Subspace based network community detection using sparse linear coding. , 2016, , .		3
78	Improving security surveillance by hidden cameras. Multimedia Tools and Applications, 2017, 76, 2713-2732.	2.6	3
79	Action recognition in poor-quality spectator crowd videos using head distribution-based person segmentation. Machine Vision and Applications, 2019, 30, 1083-1096.	1.7	3
80	Deep Multiresolution Cellular Communities for Semantic Segmentation of Multi-Gigapixel Histology Images. , 2019, , .		3
81	Video Coding With Linear Compensation (VCLC). , 2007, , .		2
82	Non-cooperative and Occluded Person Identification Using Periocular Region with Visible, Infra-Red, and Hyperspectral Imaging. Signal Processing for Security Technologies, 2017, , 223-251.	0.9	2
83	Multi-person Head Segmentation in Low Resolution Crowd Scenes Using Convolutional Encoder-Decoder Framework. Communications in Computer and Information Science, 2019, , 82-92.	0.4	2
84	Lightweight Encoder-Decoder Architecture forÂFoot Ulcer Segmentation. Communications in Computer and Information Science, 2022, , 242-253.	0.4	2
85	Structure-less object detection using AdaBoost algorithm. , 2007, , .		1
86	Image inpainting using cubic hermit spline. Proceedings of SPIE, 2011, , .	0.8	1
87	A Voting-Based Encoding Technique for the Classification of Gleason Score for Prostate Cancers. Communications in Computer and Information Science, 2018, , 74-83.	0.4	1
88	Action Recognition in Spectator Crowds. , 2016, , .		1
89	Bag of visual words based approach for the classification of benign and malignant masses in mammograms using voting-based feature encoding. , 2018, , .		1
90	Background/Foreground Separation: Guided Attention based Adversarial Modeling (GAAM) versus Robust Subspace Learning Methods. , 2021, , .		1

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91	Early terminating algorithms for Adaboost based detectors. , 2009, , .		0
92	Robust Tracking via Feature Enrichment and Overlap Maximization. Communications in Computer and Information Science, 2021, , 17-30.	0.4	0
93	Pose Detection for Partially Occluded Persons in Spectator Crowds. , 2016, , .		0