

# Mubarak Shah

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6327200/publications.pdf>

Version: 2024-02-01

120  
papers

11,341  
citations

394286

19  
h-index

360920

35  
g-index

121  
all docs

121  
docs citations

121  
times ranked

6692  
citing authors

#	ARTICLE	IF	CITATIONS
1	Abnormal crowd behavior detection using social force model. , 2009, , .		1,104
2	Real-World Anomaly Detection in Surveillance Videos. , 2018, , .		865
3	Action MACH a spatio-temporal Maximum Average Correlation Height filter for action recognition. , 2008, , .		787
4	Multi-source Multi-scale Counting in Extremely Dense Crowd Images. , 2013, , .		631
5	Recognizing realistic actions from videos "in the wild", 2009, , .		625
6	A Lagrangian Particle Dynamics Approach for Crowd Flow Segmentation and Stability Analysis. , 2007, , .		415
7	Human Semantic Parsing for Person Re-identification. , 2018, , .		385
8	View-Invariant Representation and Recognition of Actions. International Journal of Computer Vision, 2002, 50, 203-226.	10.9	357
9	Chaotic invariants of Lagrangian particle trajectories for anomaly detection in crowded scenes. , 2010, , .		356
10	Semi Supervised Semantic Segmentation Using Generative Adversarial Network. , 2017, , .		291
11	Learning object motion patterns for anomaly detection and improved object detection. , 2008, , .		266
12	Actions Sketch: A Novel Action Representation. , 0, , .		241
13	Video Object Segmentation through Spatially Accurate and Temporally Dense Extraction of Primary Object Regions. , 2013, , .		235
14	Tube Convolutional Neural Network (T-CNN) for Action Detection in Videos. , 2017, , .		225
15	GMMCP tracker: Globally optimal Generalized Maximum Multi Clique problem for multiple object tracking. , 2015, , .		208
16	A noniterative greedy algorithm for multiframe point correspondence. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2005, 27, 51-65.	9.7	182
17	Chaotic Invariants for Human Action Recognition. , 2007, , .		176
18	Spatiotemporal Deformable Part Models for Action Detection. , 2013, , .		166

#	ARTICLE	IF	CITATIONS
19	Deep Affinity Network for Multiple Object Tracking. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 43, 1-1.	9.7	159
20	Image Geo-Localization Based on Multiple Nearest Neighbor Feature Matching Using Generalized Graphs. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 1546-1558.	9.7	151
21	Learning a Deep Model for Human Action Recognition from Novel Viewpoints. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 667-681.	9.7	146
22	High-level event recognition in unconstrained videos. International Journal of Multimedia Information Retrieval, 2013, 2, 73-101.	3.6	126
23	Cross-View Image Matching for Geo-Localization in Urban Environments. , 2017, , .		112
24	Action recognition in videos acquired by a moving camera using motion decomposition of Lagrangian particle trajectories. , 2011, , .		111
25	NMF-KNN: Image Annotation Using Weighted Multi-view Non-negative Matrix Factorization. , 2014, , .		108
26	Learning human actions via information maximization. , 2008, , .		104
27	Video Description. ACM Computing Surveys, 2020, 52, 1-37.	16.1	100
28	Learning semantic visual vocabularies using diffusion distance. , 2009, , .		99
29	Human identity recognition in aerial images. , 2010, , .		97
30	Advances in Adversarial Attacks and Defenses in Computer Vision: A Survey. IEEE Access, 2021, 9, 155161-155196.	2.6	91
31	Scene understanding by statistical modeling of motion patterns. , 2010, , .		87
32	Scene Modeling Using Co-Clustering. , 2007, , .		82
33	Target Identity-aware Network Flow for online multiple target tracking. , 2015, , .		80
34	Abnormal crowd behavior detection using social force model. , 2009, , .		80
35	Part-based multiple-person tracking with partial occlusion handling. , 2012, , .		77
36	Recognizing human actions using multiple features. , 2008, , .		73

#	ARTICLE	IF	CITATIONS
37	Bridging the Domain Gap for Ground-to-Aerial Image Matching. , 2019, , .		73
38	Who Do I Look Like? Determining Parent-Offspring Resemblance via Gated Autoencoders. , 2014, , .		72
39	Face Recognition in Movie Trailers via Mean Sequence Sparse Representation-Based Classification. , 2013, , .		71
40	Attributed graph distance measure for automatic detection of attention deficit hyperactive disordered subjects. <i>Frontiers in Neural Circuits</i> , 2014, 8, 64.	1.4	71
41	ClusterNet: Detecting Small Objects in Large Scenes by Exploiting Spatio-Temporal Information. , 2018, , .		64
42	Learning motion patterns in crowded scenes using motion flow field. , 2008, , .		59
43	<i>Brain2Image</i> . , 2017, , .		55
44	Improving Facial Attribute Prediction Using Semantic Segmentation. , 2017, , .		53
45	Predicting the Where and What of Actors and Actions through Online Action Localization. , 2016, , .		51
46	Improving an Object Detector and Extracting Regions Using Superpixels. , 2013, , .		50
47	Video Scene Understanding Using Multi-scale Analysis. , 2009, , .		47
48	Recognizing realistic actions from videos &#x201C;in the wild&#x201D;. , 2009, , .		47
49	Detecting global motion patterns in complex videos. , 2008, , .		45
50	Decoding Brain Representations by Multimodal Learning of Neural Activity and Visual Features. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2021, 43, 3833-3849.	9.7	43
51	Learning 4D action feature models for arbitrary view action recognition. , 2008, , .		41
52	ThoughtViz. , 2018, , .		41
53	Motion and Appearance Contexts for Tracking and Re-Acquiring Targets in Aerial Videos. , 2007, , .		40
54	Action Localization in Videos through Context Walk. , 2015, , .		40

#	ARTICLE	IF	CITATIONS
55	Motion Layer Based Object Removal in Videos. , 2005, , .		39
56	Unsupervised Action Discovery and Localization in Videos. , 2017, , .		38
57	On Detection, Data Association and Segmentation for Multi-Target Tracking. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 2146-2160.	9.7	36
58	MinGPU: a minimum GPU library for computer vision. Journal of Real-Time Image Processing, 2008, 3, 255-268.	2.2	34
59	Norm-Preservation: Why Residual Networks Can Become Extremely Deep?. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 3980-3990.	9.7	34
60	City scale geo-spatial trajectory estimation of a moving camera. , 2012, , .		33
61	Computer Vision for Nanoscale Imaging. Machine Vision and Applications, 2006, 17, 147-162.	1.7	32
62	Multi-target Tracking in Multiple Non-overlapping Cameras Using Fast-Constrained Dominant Sets. International Journal of Computer Vision, 2019, 127, 1303-1320.	10.9	32
63	RescueNet: Joint Building Segmentation and Damage Assessment from Satellite Imagery. , 2021, , .		31
64	Dogfight: Detecting Drones from Drones Videos. , 2021, , .		29
65	Semi-supervised Learning of Feature Hierarchies for Object Detection in a Video. , 2013, , .		28
66	Large-Scale Image Geo-Localization Using Dominant Sets. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 148-161.	9.7	26
67	Modeling Multi-Label Action Dependencies for Temporal Action Localization. , 2021, , .		26
68	A probabilistic representation for efficient large scale visual recognition tasks. , 2011, , .		25
69	Motion estimation and segmentation. Machine Vision and Applications, 1996, 9, 32-42.	1.7	24
70	Improving Semantic Concept Detection and Retrieval using Contextual Estimates. , 2007, , .		24
71	Visual-Textual Capsule Routing for Text-Based Video Segmentation. , 2020, , .		24
72	Utilizing semantic word similarity measures for video retrieval. , 2008, , .		23

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73	Video Classification Using Semantic Concept Co-occurrences. , 2014, , .		22
74	Automated Defect Detection and Localization in Photovoltaic Cells Using Semantic Segmentation of Electroluminescence Images. IEEE Journal of Photovoltaics, 2022, 12, 53-61.	1.5	22
75	Adversarial Learning for Personalized Tag Recommendation. IEEE Transactions on Multimedia, 2021, 23, 1083-1094.	5.2	21
76	Understanding human behavior from motion imagery. Machine Vision and Applications, 2003, 14, 210-214.	1.7	20
77	What If We Do Not have Multiple Videos of the Same Action? â€” Video Action Localization Using Web Images. , 2016, , .		20
78	A supervised learning framework for generic object detection in images. , 2005, , .		18
79	Spatioâ€”Temporal Regularity Flow (SPREF): Its Estimation and Applications. IEEE Transactions on Circuits and Systems for Video Technology, 2007, 17, 584-589.	5.6	18
80	Deep Constrained Dominant Sets for Person Re-Identification. , 2019, , .		18
81	Simultaneous Detection and Tracking with Motion Modelling for Multiple Object Tracking. Lecture Notes in Computer Science, 2020, , 626-643.	1.0	18
82	TOWARD 3-D GESTURE RECOGNITION. International Journal of Pattern Recognition and Artificial Intelligence, 1999, 13, 381-393.	0.7	17
83	Automated monitoring for security camera networks: promise from computer vision labs. Security Journal, 2021, 34, 389-409.	1.0	16
84	Guest Introduction: The Changing Shape of Computer Vision in the Twenty-First Century. International Journal of Computer Vision, 2002, 50, 103-110.	10.9	15
85	GabriellaV2: Towards better generalization in surveillance videos for Action Detection. , 2022, , .		15
86	TinyVIRAT: Low-resolution Video Action Recognition. , 2021, , .		13
87	Single view compositing with shadows. Visual Computer, 2005, 21, 639-648.	2.5	12
88	Shape from intensity gradient. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 1999, 29, 318-325.	3.4	10
89	Action recognition in unconstrained amateur videos. , 2009, , .		10
90	Learning a Multi-Concept Video Retrieval Model with Multiple Latent Variables. ACM Transactions on Multimedia Computing, Communications and Applications, 2018, 14, 1-21.	3.0	10

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91	On Symbiosis of Attribute Prediction and Semantic Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 1620-1635.	9.7	10
92	Object tracking across multiple independently moving airborne cameras. , 2005, , .		9
93	Where was the Picture Taken: Image Localization in Route Panoramas Using Epipolar Geometry. , 2006, , .		9
94	Geo-semantic segmentation. , 2015, , .		9
95	Video Geo-Localization Employing Geo-Temporal Feature Learning and GPS Trajectory Smoothing. , 2021, , .		9
96	Scene Labeling Using Sparse Precision Matrix. , 2016, , .		8
97	PLM: Partial Label Masking for Imbalanced Multi-label Classification. , 2021, , .		8
98	On the Direct Estimation of the Fundamental Matrix. , 2007, , .		7
99	Gabriella: An Online System for Real-Time Activity Detection in Untrimmed Security Videos. , 2021, , .		7
100	Improving Semantic Concept Detection through the Dictionary of Visually-Distinct Elements. , 2014, , .		6
101	Video Fill In the Blank Using LR/RL LSTMs with Spatial-Temporal Attentions. , 2017, , .		6
102	Adaptive Region-Based Video Registration. , 2005, , .		5
103	Geometric constraints on 2D action models for tracking human body. , 2008, , .		5
104	Select to Better Learn: Fast and Accurate Deep Learning Using Data Selection From Nonlinear Manifolds. , 2020, , .		5
105	Cross-Domain Modality Fusion for Dense Video Captioning. IEEE Transactions on Artificial Intelligence, 2022, 3, 763-777.	3.4	5
106	Layer-based video registration. Machine Vision and Applications, 2005, 16, 75-84.	1.7	4
107	Foreground Segmentation in Surveillance Scenes Containing a Door. , 2007, , .		4
108	Cassandra: Detecting Trojaned Networks From Adversarial Perturbations. IEEE Access, 2021, 9, 135856-135867.	2.6	4

#	ARTICLE	IF	CITATIONS
109	Unsupervised Discriminative Embedding For Sub-Action Learning in Complex Activities. , 2021, , .		4
110	On the Spacetime Geometry of Galilean Cameras. , 2007, , .		3
111	Tracking When the Camera Looks Away. , 2015, , .		3
112	Odyssey: Creation, Analysis and Detection of Trojan Models. IEEE Transactions on Information Forensics and Security, 2021, 16, 4521-4533.	4.5	3
113	Automatic Segmentation of Home Videos. , 0, , .		2
114	Creating Realistic Shadows of Composited Objects. , 2005, , .		1
115	Learning a Multi-concept Video Retrieval Model with Multiple Latent Variables. , 2016, , .		1
116	Photography and Exploration of Tourist Locations Based on Optimal Foraging Theory. IEEE Transactions on Circuits and Systems for Video Technology, 2019, , 1-1.	5.6	1
117	Motion estimation and segmentation. Machine Vision and Applications, 1996, 9, 32-42.	1.7	1
118	Segmentation of Neighboring Structures by Modeling Their Interaction. , 0, , .		0
119	Transferable 3D Adversarial Textures using End-to-end Optimization. , 2022, , .		0
120	Learning semantic visual vocabularies using diffusion distance. , 2009, , .		0