Mubarak Shah

List of Publications by Year
in descending order

120 papers	11,341 citations	394421 19 h-index	361022 35 g-index
121 all docs	121 docs citations	121 times ranked	6692 citing authors

#	Article	IF	Citations
1	Cross-Domain Modality Fusion for Dense Video Captioning. IEEE Transactions on Artificial Intelligence, 2022, 3, 763-777.	4.7	5
2	Automated Defect Detection and Localization in Photovoltaic Cells Using Semantic Segmentation of Electroluminescence Images. IEEE Journal of Photovoltaics, 2022, 12, 53-61.	2.5	22
3	Transferable 3D Adversarial Textures using End-to-end Optimization. , 2022, , .		0
4	GabriellaV2: Towards better generalization in surveillance videos for Action Detection. , 2022, , .		15
5	Norm-Preservation: Why Residual Networks Can Become Extremely Deep?. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 3980-3990.	13.9	34
6	Automated monitoring for security camera networks: promise from computer vision labs. Security Journal, 2021, 34, 389-409.	1.7	16
7	On Symbiosis of Attribute Prediction and Semantic Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 1620-1635.	13.9	10
8	Adversarial Learning for Personalized Tag Recommendation. IEEE Transactions on Multimedia, 2021, 23, 1083-1094.	7.2	21
9	Cassandra: Detecting Trojaned Networks From Adversarial Perturbations. IEEE Access, 2021, 9, 135856-135867.	4.2	4
10	Odyssey: Creation, Analysis and Detection of Trojan Models. IEEE Transactions on Information Forensics and Security, 2021, 16, 4521-4533.	6.9	3
11	Gabriella: An Online System for Real-Time Activity Detection in Untrimmed Security Videos. , 2021, , .		7
12	TinyVIRAT: Low-resolution Video Action Recognition. , 2021, , .		13
13	PLM: Partial Label Masking for Imbalanced Multi-label Classification. , 2021, , .		8
14	Unsupervised Discriminative Embedding For Sub-Action Learning in Complex Activities. , 2021, , .		4
15	RescueNet: Joint Building Segmentation and Damage Assessment from Satellite Imagery. , 2021, , .		31
16	Decoding Brain Representations by Multimodal Learning of Neural Activity and Visual Features. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 3833-3849.	13.9	43
17	Modeling Multi-Label Action Dependencies for Temporal Action Localization. , 2021, , .		26
18	Dogfight: Detecting Drones from Drones Videos. , 2021, , .		29

#	Article	IF	Citations
19	Advances in Adversarial Attacks and Defenses in Computer Vision: A Survey. IEEE Access, 2021, 9, 155161-155196.	4.2	91
20	Video Geo-Localization Employing Geo-Temporal Feature Learning and GPS Trajectory Smoothing. , 2021, , .		9
21	Video Description. ACM Computing Surveys, 2020, 52, 1-37.	23.0	100
22	Select to Better Learn: Fast and Accurate Deep Learning Using Data Selection From Nonlinear Manifolds. , 2020, , .		5
23	Visual-Textual Capsule Routing for Text-Based Video Segmentation. , 2020, , .		24
24	Simultaneous Detection and Tracking with Motion Modelling for Multiple Object Tracking. Lecture Notes in Computer Science, 2020, , 626-643.	1.3	18
25	On Detection, Data Association and Segmentation for Multi-Target Tracking. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 2146-2160.	13.9	36
26	Deep Affinity Network for Multiple Object Tracking. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 43, 1-1.	13.9	159
27	Photography and Exploration of Tourist Locations Based on Optimal Foraging Theory. IEEE Transactions on Circuits and Systems for Video Technology, 2019, , 1-1.	8.3	1
28	Multi-target Tracking in Multiple Non-overlapping Cameras Using Fast-Constrained Dominant Sets. International Journal of Computer Vision, 2019, 127, 1303-1320.	15.6	32
29	Bridging the Domain Gap for Ground-to-Aerial Image Matching. , 2019, , .		73
30	Deep Constrained Dominant Sets for Person Re-Identification. , 2019, , .		18
31	Large-Scale Image Geo-Localization Using Dominant Sets. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019, 41, 148-161.	13.9	26
32	Learning a Multi-Concept Video Retrieval Model with Multiple Latent Variables. ACM Transactions on Multimedia Computing, Communications and Applications, 2018, 14, 1-21.	4.3	10
33	Learning a Deep Model for Human Action Recognition from Novel Viewpoints. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2018, 40, 667-681.	13.9	146
34	ClusterNet: Detecting Small Objects in Large Scenes by Exploiting Spatio-Temporal Information. , 2018, , .		64
35	ThoughtViz. , 2018, , .		41
36	Real-World Anomaly Detection in Surveillance Videos. , 2018, , .		865

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37	Human Semantic Parsing for Person Re-identification. , 2018, , .		385
38	Improving Facial Attribute Prediction Using Semantic Segmentation. , 2017, , .		53
39	Semi Supervised Semantic Segmentation Using Generative Adversarial Network. , 2017, , .		291
40	<i>Brain2Image</i>. , 2017, , .		55
41	Cross-View Image Matching for Geo-Localization in Urban Environments. , 2017, , .		112
42	Unsupervised Action Discovery and Localization in Videos. , 2017, , .		38
43	Tube Convolutional Neural Network (T-CNN) for Action Detection in Videos. , 2017, , .		225
44	Video Fill In the Blank Using LR/RL LSTMs with Spatial-Temporal Attentions. , 2017, , .		6
45	What If We Do Not have Multiple Videos of the Same Action? â€" Video Action Localization Using Web Images. , 2016, , .		20
46	Predicting the Where and What of Actors and Actions through Online Action Localization. , 2016, , .		51
47	Learning a Multi-concept Video Retrieval Model with Multiple Latent Variables. , 2016, , .		1
48	Scene Labeling Using Sparse Precision Matrix. , 2016, , .		8
49	GMMCP tracker: Globally optimal Generalized Maximum Multi Clique problem for multiple object tracking. , 2015, , .		208
50	Tracking When the Camera Looks Away. , 2015, , .		3
51	Action Localization in Videos through Context Walk. , 2015, , .		40
52	Target Identity-aware Network Flow for online multiple target tracking. , 2015, , .		80
53	Geo-semantic segmentation. , 2015, , .		9
54	Attributed graph distance measure for automatic detection of attention deficit hyperactive disordered subjects. Frontiers in Neural Circuits, 2014, 8, 64.	2.8	71

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55	Improving Semantic Concept Detection through the Dictionary of Visually-Distinct Elements. , 2014, , .		6
56	Video Classification Using Semantic Concept Co-occurrences. , 2014, , .		22
57	NMF-KNN: Image Annotation Using Weighted Multi-view Non-negative Matrix Factorization. , 2014, , .		108
58	Who Do I Look Like? Determining Parent-Offspring Resemblance via Gated Autoencoders. , 2014, , .		72
59	Image Geo-Localization Based on MultipleNearest Neighbor Feature Matching UsingGeneralized Graphs. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2014, 36, 1546-1558.	13.9	151
60	High-level event recognition in unconstrained videos. International Journal of Multimedia Information Retrieval, 2013, 2, 73-101.	5.2	126
61	Video Object Segmentation through Spatially Accurate and Temporally Dense Extraction of Primary Object Regions. , 2013, , .		235
62	Face Recognition in Movie Trailers via Mean Sequence Sparse Representation-Based Classification. , 2013, , .		71
63	Improving an Object Detector and Extracting Regions Using Superpixels. , 2013, , .		50
64	Spatiotemporal Deformable Part Models for Action Detection. , 2013, , .		166
65	Semi-supervised Learning of Feature Hierarchies for Object Detection in a Video. , 2013, , .		28
66	Multi-source Multi-scale Counting in Extremely Dense Crowd Images. , 2013, , .		631
67	City scale geo-spatial trajectory estimation of a moving camera. , 2012, , .		33
68	Part-based multiple-person tracking with partial occlusion handling. , 2012, , .		77
69	Action recognition in videos acquired by a moving camera using motion decomposition of Lagrangian particle trajectories. , 2011, , .		111
70	A probabilistic representation for efficient large scale visual recognition tasks. , 2011, , .		25
71	Human identity recognition in aerial images. , 2010, , .		97
72	Chaotic invariants of Lagrangian particle trajectories for anomaly detection in crowded scenes. , 2010, , .		356

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73	Scene understanding by statistical modeling of motion patterns. , 2010, , .		87
74	Abnormal crowd behavior detection using social force model. , 2009, , .		1,104
75	Video Scene Understanding Using Multi-scale Analysis. , 2009, , .		47
76	Action recognition in unconstrained amateur videos. , 2009, , .		10
77	Recognizing realistic actions from videos â€œin the wildâ€•. , 2009, , .		625
78	Learning semantic visual vocabularies using diffusion distance. , 2009, , .		99
79	Recognizing realistic actions from videos &#x201C;in the wild&#x201D;. , 2009, , .		47
80	Abnormal crowd behavior detection using social force model. , 2009, , .		80
81	Learning semantic visual vocabularies using diffusion distance. , 2009, , .		0
82	MinGPU: a minimum GPU library for computer vision. Journal of Real-Time Image Processing, 2008, 3, 255-268.	3.5	34
83	Utilizing semantic word similarity measures for video retrieval. , 2008, , .		23
84	Recognizing human actions using multiple features. , 2008, , .		73
85	Learning 4D action feature models for arbitrary view action recognition. , 2008, , .		41
86	Detecting global motion patterns in complex videos. , 2008, , .		45
87	Learning motion patterns in crowded scenes using motion flow field. , 2008, , .		59
88	Geometric constraints on 2D action models for tracking human body. , 2008, , .		5
89	Learning object motion patterns for anomaly detection and improved object detection. , 2008, , .		266
90	Learning human actions via information maximization. , 2008, , .		104

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91	Action MACH a spatio-temporal Maximum Average Correlation Height filter for action recognition. , 2008, , .		787
92	On the Direct Estimation of the Fundamental Matrix. , 2007, , .		7
93	On the Spacetime Geometry of Galilean Cameras. , 2007, , .		3
94	Scene Modeling Using Co-Clustering. , 2007, , .		82
95	Foreground Segmentation in Surveillance Scenes Containing a Door. , 2007, , .		4
96	Motion and Appearance Contexts for Tracking and Re-Acquiring Targets in Aerial Videos. , 2007, , .		40
97	A Lagrangian Particle Dynamics Approach for Crowd Flow Segmentation and Stability Analysis. , 2007, , .		415
98	Chaotic Invariants for Human Action Recognition. , 2007, , .		176
99	Spatio–Temporal Regularity Flow (SPREF): Its Estimation and Applications. IEEE Transactions on Circuits and Systems for Video Technology, 2007, 17, 584-589.	8.3	18
100	Improving Semantic Concept Detection and Retrieval using Contextual Estimates. , 2007, , .		24
101	Where was the Picture Taken: Image Localization in Route Panoramas Using Epipolar Geometry. , 2006, , .		9
102	Computer Vision for Nanoscale Imaging. Machine Vision and Applications, 2006, 17, 147-162.	2.7	32
103	Creating Realistic Shadows of Composited Objects. , 2005, , .		1
104	Single view compositing with shadows. Visual Computer, 2005, 21, 639-648.	3.5	12
105	Layer-based video registration. Machine Vision and Applications, 2005, 16, 75-84.	2.7	4
106	Adaptive Region-Based Video Registration. , 2005, , .		5
107	A noniterative greedy algorithm for multiframe point correspondence. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2005, 27, 51-65.	13.9	182
108	Object tracking across multiple independently moving airborne cameras. , 2005, , .		9

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109	A supervised learning framework for generic object detection in images. , 2005, , .		18
110	Motion Layer Based Object Removal in Videos. , 2005, , .		39
111	Understanding human behavior from motion imagery. Machine Vision and Applications, 2003, 14, 210-214.	2.7	20
112	Guest Introduction: The Changing Shape of Computer Vision in the Twenty-First Century. International Journal of Computer Vision, 2002, 50, 103-110.	15.6	15
113	View-Invariant Representation and Recognition of Actions. International Journal of Computer Vision, 2002, 50, 203-226.	15.6	357
114	TOWARD 3-D GESTURE RECOGNITION. International Journal of Pattern Recognition and Artificial Intelligence, 1999, 13, 381-393.	1.2	17
115	Shape from intensity gradient. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 1999, 29, 318-325.	2.9	10
116	Motion estimation and segmentation. Machine Vision and Applications, 1996, 9, 32-42.	2.7	24
117	Motion estimation and segmentation. Machine Vision and Applications, 1996, 9, 32-42.	2.7	1
118	Actions Sketch: A Novel Action Representation. , 0, , .		241
119	Automatic Segmentation of Home Videos. , 0, , .		2
120	Segmentation of Neighboring Structures by Modeling Their Interaction. , 0, , .		0