

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

394421

19
h-index

361022

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. | 15.6 | 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. | 13.9 | 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. | 13.9 | 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. | 13.9 | 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. | 13.9 | 146 |
| 22 | High-level event recognition in unconstrained videos. International Journal of Multimedia Information Retrieval, 2013, 2, 73-101. | 5.2 | 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. | 23.0 | 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. | 4.2 | 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. | 2.8 | 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 “in the wild”. , 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. | 13.9 | 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. | 13.9 | 36 |
| 58 | MinGPU: a minimum GPU library for computer vision. Journal of Real-Time Image Processing, 2008, 3, 255-268. | 3.5 | 34 |
| 59 | Norm-Preservation: Why Residual Networks Can Become Extremely Deep?. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 3980-3990. | 13.9 | 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. | 2.7 | 32 |
| 62 | Multi-target Tracking in Multiple Non-overlapping Cameras Using Fast-Constrained Dominant Sets. International Journal of Computer Vision, 2019, 127, 1303-1320. | 15.6 | 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. | 13.9 | 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. | 2.7 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 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. | 2.5 | 22 |
| 75 | Adversarial Learning for Personalized Tag Recommendation. IEEE Transactions on Multimedia, 2021, 23, 1083-1094. | 7.2 | 21 |
| 76 | Understanding human behavior from motion imagery. Machine Vision and Applications, 2003, 14, 210-214. | 2.7 | 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. | 8.3 | 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. | 1.3 | 18 |
| 82 | TOWARD 3-D GESTURE RECOGNITION. International Journal of Pattern Recognition and Artificial Intelligence, 1999, 13, 381-393. | 1.2 | 17 |
| 83 | Automated monitoring for security camera networks: promise from computer vision labs. Security Journal, 2021, 34, 389-409. | 1.7 | 16 |
| 84 | 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 |
| 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. | 3.5 | 12 |
| 88 | Shape from intensity gradient. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 1999, 29, 318-325. | 2.9 | 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. | 4.3 | 10 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 91 | On Symbiosis of Attribute Prediction and Semantic Segmentation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 1620-1635. | 13.9 | 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. | 4.7 | 5 |
| 106 | Layer-based video registration. Machine Vision and Applications, 2005, 16, 75-84. | 2.7 | 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. | 4.2 | 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. | 6.9 | 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. | 8.3 | 1 |
| 117 | Motion estimation and segmentation. Machine Vision and Applications, 1996, 9, 32-42. | 2.7 | 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 |