

# YingLi Tian

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

2,509  
citations

516710

16  
h-index

642732

23  
g-index

57  
all docs

57  
docs citations

57  
times ranked

2444  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Self-Supervised Visual Feature Learning With Deep Neural Networks: A Survey. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 4037-4058.                          | 13.9 | 828       |
| 2  | Super Normal Vector for Activity Recognition Using Depth Sequences. , 2014, , .  |      | 260       |
| 3  | Vision-Based Mobile Indoor Assistive Navigation Aid for Blind People. IEEE Transactions on Mobile Computing, 2019, 18, 702-714.  | 5.8  | 127       |
| 4  | Super Normal Vector for Human Activity Recognition with Depth Cameras. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017, 39, 1028-1039.                                | 13.9 | 115       |
| 5  | Toward a computer vision-based wayfinding aid for blind persons to access unfamiliar indoor environments. Machine Vision and Applications, 2013, 24, 521-535.                              | 2.7  | 78        |
| 6  | Coarse-to-Fine Semantic Segmentation From Image-Level Labels. IEEE Transactions on Image Processing, 2020, 29, 225-236.  | 9.8  | 78        |
| 7  | Portable Camera-Based Assistive Text and Product Label Reading From Hand-Held Objects for Blind Persons. IEEE/ASME Transactions on Mechatronics, 2014, 19, 808-817.                        | 5.8  | 67        |
| 8  | Histogram of 3D Facets: A characteristic descriptor for hand gesture recognition. , 2013, , .  |      | 63        |
| 9  | Design and Control of a High-Torque and Highly Backdrivable Hybrid Soft Exoskeleton for Knee Injury Prevention During Squatting. IEEE Robotics and Automation Letters, 2019, 4, 4579-4586. | 5.1  | 57        |
| 10 | Feature Representations for Scene Text Character Recognition: A Comparative Study. , 2013, , .   |      | 50        |
| 11 | Assistive Clothing Pattern Recognition for Visually Impaired People. IEEE Transactions on Human-Machine Systems, 2014, 44, 234-243.  | 3.5  | 49        |
| 12 | Robust and efficient foreground analysis in complex surveillance videos. Machine Vision and Applications, 2012, 23, 967-983.   | 2.7  | 47        |
| 13 | A Heuristic Neural Network Structure Relying on Fuzzy Logic for Images Scoring. IEEE Transactions on Fuzzy Systems, 2021, 29, 34-45.   | 9.8  | 46        |
| 14 | Detecting stairs and pedestrian crosswalks for the blind by RGBD camera. , 2012, , .   |      | 43        |
| 15 | Robust door detection in unfamiliar environments by combining edge and corner features. , 2010, , .  |      | 39        |
| 16 | Text Detection in Natural Scene Images by Stroke Gabor Words. , 2011, 2011, 177-181.   |      | 38        |
| 17 | Recognizing Text-Based Traffic Guide Panels with Cascaded Localization Network. Lecture Notes in Computer Science, 2016, , 109-121.  | 1.3  | 38        |
| 18 | Finding objects for blind people based on SURF features. , 2011, , .   |      | 33        |

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 19 | Depth-aware indoor staircase detection and recognition for the visually impaired. , 2016, , .  |      | 31        |
| 20 | Evaluation of Low-Level Features for Real-World Surveillance Event Detection. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 624-634.                                       | 8.3  | 31        |
| 21 | High-Resolution Sea Ice Motion Estimation With Optical Flow Using Satellite Spectroradiometer Data. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 1339-1350.                           | 6.3  | 29        |
| 22 | Prediction of Sea Ice Motion With Convolutional Long Short-Term Memory Networks. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 6865-6876.  | 6.3  | 29        |
| 23 | Unambiguous Scene Text Segmentation With Referring Expression Comprehension. IEEE Transactions on Image Processing, 2020, 29, 591-601.   | 9.8  | 29        |
| 24 | Edge Enhanced Depth Motion Map for Dynamic Hand Gesture Recognition. , 2013, , .   |      | 23        |
| 25 | A SLAM Based Semantic Indoor Navigation System for Visually Impaired Users. , 2015, , .  |      | 21        |
| 26 | Unambiguous Text Localization and Retrieval for Cluttered Scenes. , 2017, , .  |      | 19        |
| 27 | Scene text recognition in multiple frames based on text tracking. , 2014, , .  |      | 17        |
| 28 | Super-Resolved Fine-Scale Sea Ice Motion Tracking. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 5427-5439.  | 6.3  | 17        |
| 29 | Action detection using multiple spatial-temporal interest point features. , 2010, , .  |      | 15        |
| 30 | Towards breaking the spatial resolution barriers: An optical flow and super-resolution approach for sea ice motion estimation. ISPRS Journal of Photogrammetry and Remote Sensing, 2018, 138, 164-175. | 11.1 | 15        |
| 31 | Self-Guiding Multimodal LSTM“When We Do Not Have a Perfect Training Dataset for Image Captioning. IEEE Transactions on Image Processing, 2019, 28, 5241-5252.  | 9.8  | 15        |
| 32 | Discovering spatio-temporal action tubes. Journal of Visual Communication and Image Representation, 2019, 58, 515-524.   | 2.8  | 13        |
| 33 | Recognizing expressions from face and body gesture by temporal normalized motion and appearance features. , 2011, , .  |      | 12        |
| 34 | Assisting blind people to avoid obstacles: An wearable obstacle stereo feedback system based on 3D detection. , 2015, , .  |      | 12        |
| 35 | Automatic video description generation via LSTM with joint two-stream encoding. , 2016, , .  |      | 11        |
| 36 | Visual semantic parameterization - To enhance blind user perception for indoor navigation. , 2013, , .   |      | 8         |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 37 | Detecting good quality frames in videos captured by a wearable camera for blind navigation. , 2013, , .   |      | 8         |
| 38 | Single image super-resolution via internal gradient similarity. Journal of Visual Communication and Image Representation, 2016, 35, 91-102.                             | 2.8  | 7         |
| 39 | Image-Based Barcode Detection and Recognition to Assist Visually Impaired Persons. , 2017, , .  |      | 7         |
| 40 | Unambiguous Text Localization, Retrieval, and Recognition for Cluttered Scenes. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, 44, 1638-1652.    | 13.9 | 7         |
| 41 | A primary travelling assistant system of bus detection and recognition for visually impaired people. , 2013, , .  |      | 6         |
| 42 | An effective view and time-invariant action recognition method based on depth videos. , 2015, , .   |      | 6         |
| 43 | Recognizing Elevator Buttons and Labels for Blind Navigation. , 2017, , .   |      | 6         |
| 44 | Rotation and illumination invariant texture analysis: Matching clothes with complex patterns for blind people. , 2010, , .  |      | 5         |
| 45 | Prediction of sea ice motion with recurrent neural networks. , 2017, , .  |      | 5         |
| 46 | Margin-constrained multiple kernel learning based multi-modal fusion for affect recognition. , 2013, , .  |      | 4         |
| 47 | Multimodal clothing recognition for semantic search in unconstrained surveillance imagery. Journal of Visual Communication and Image Representation, 2019, 58, 439-452. | 2.8  | 4         |
| 48 | An Assistive Indoor Navigation System for the Visually Impaired in Multi-Floor Environments. , 2017, , .  |      | 3         |
| 49 | Identifying medicine bottles by incorporating RFID and video analysis. , 2011, , .  |      | 2         |
| 50 | Adaptive shrinkage cascades for blind image deconvolution. , 2016, , .  |      | 2         |
| 51 | Towards Accurate Instance-Level Text Spotting with Guided Attention. , 2019, , .  |      | 2         |
| 52 | Deep Active Learning for Effective Pulmonary Nodule Detection. Lecture Notes in Computer Science, 2020, , 609-618.  | 1.3  | 2         |
| 53 | Indoor signage detection based on saliency map and bipartite graph matching. , 2011, , .  |      | 1         |
| 54 | Computer vision-based mathematics learning enhancement for children with visual impairments. , 2012, , .  |      | 1         |

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|----|--|----|-----------|
| 55 | Learning Alphabets and Numbers from Hand Motion Trajectories for Visually Impaired Children. , 2017, , . |    | 1         |
| 56 | Increasing spatial resolution of sea ice motion estimation. , 2017, , .                                  |    | 0         |