# Yong-Jie Li

List of Publications by Year
in descending order

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|---|---|---|---|
| 53<br>papers | 1,466<br>citations | 394421<br>19<br>h-index | 377865<br>34<br>g-index |
| 56<br>all docs | 56<br>docs citations | 56<br>times ranked | 957<br>citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Automatic beam angle selection in IMRT planning using genetic algorithm. Physics in Medicine and Biology, 2004, 49, 1915-1932. | 3.0 | 107 |
| 2 | Color Constancy Using Double-Opponency. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2015, 37, 1973-1985. | 13.9 | 92 |
| 3 | Underwater Image Enhancement Using Adaptive Retinal Mechanisms. IEEE Transactions on Image Processing, 2019, 28, 5580-5595. | 9.8 | 86 |
| 4 | Center–surround interaction with adaptive inhibition: A computational model for contour detection. NeuroImage, 2011, 55, 49-66. | 4.2 | 84 |
| 5 | Efficient illuminant estimation for color constancy using grey pixels. , 2015, , . |  | 83 |
| 6 | Contour detection based on a non-classical receptive field model with butterfly-shaped inhibition subregions. Neurocomputing, 2011, 74, 1527-1534. | 5.9 | 73 |
| 7 | Where Does the Driver Look? Top-Down-Based Saliency Detection in a Traffic Driving Environment. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 2051-2062. | 8.0 | 66 |
| 8 | Boundary Detection Using Double-Opponency and Spatial Sparseness Constraint. IEEE Transactions on Image Processing, 2015, 24, 2565-2578. | 9.8 | 61 |
| 9 | Multifeature-Based Surround Inhibition Improves Contour Detection in Natural Images. IEEE Transactions on Image Processing, 2014, 23, 5020-5032. | 9.8 | 60 |
| 10 | Nighttime Vehicle Detection Based on Bio-Inspired Image Enhancement and Weighted Score-Level Feature Fusion. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 927-936. | 8.0 | 59 |
| 11 | A Retinal Mechanism Inspired Color Constancy Model. IEEE Transactions on Image Processing, 2016, 25, 1219-1232. | 9.8 | 51 |
| 12 | Efficient Color Boundary Detection with Color-Opponent Mechanisms. , 2013, , . |  | 45 |
| 13 | A Biological Vision Inspired Framework for Image Enhancement in Poor Visibility Conditions. IEEE Transactions on Image Processing, 2020, 29, 1493-1506. | 9.8 | 45 |
| 14 | A Color Constancy Model with Double-Opponency Mechanisms. , 2013, , . |  | 39 |
| 15 | An Adaptive Method for Image Dynamic Range Adjustment. IEEE Transactions on Circuits and Systems for Video Technology, 2019, 29, 640-652. | 8.3 | 33 |
| 16 | A Retina Inspired Model for Enhancing Visibility of Hazy Images. Frontiers in Computational Neuroscience, 2015, 9, 151. | 2.1 | 32 |
| 17 | A Unified Framework for Salient Structure Detection by Contour-Guided Visual Search. IEEE Transactions on Image Processing, 2016, 25, 3475-3488. | 9.8 | 32 |
| 18 | Improving color constancy by discounting the variation of camera spectral sensitivity. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2017, 34, 1448. | 1.5 | 32 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | SCOAT-Net: A novel network for segmenting COVID-19 lung opacification from CT images. Pattern Recognition, 2021, 119, 108109. | 8.1 | 32 |
| 20 | Thermal Infrared Image Colorization for Nighttime Driving Scenes With Top-Down Guided Attention. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 15808-15823. | 8.0 | 31 |
| 21 | Retinal fundus image enhancement with image decomposition and visual adaptation. Computers in Biology and Medicine, 2021, 128, 104116. | 7.0 | 30 |
| 22 | Learning Crisp Boundaries Using Deep Refinement Network and Adaptive Weighting Loss. IEEE Transactions on Multimedia, 2021, 23, 761-771. | 7.2 | 26 |
| 23 | A deep-learning-based framework for severity assessment of COVID-19 with CT images. Expert Systems With Applications, 2021, 185, 115616. | 7.6 | 25 |
| 24 | Bayes Saliency-Based Object Proposal Generator for Nighttime Traffic Images. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 814-825. | 8.0 | 23 |
| 25 | Learning to Boost Bottom-Up Fixation Prediction in Driving Environments via Random Forest. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 3059-3067. | 8.0 | 20 |
| 26 | A Feasible Solution to the Beam-Angle-Optimization Problem in Radiotherapy Planning With a DNA-Based Genetic Algorithm. IEEE Transactions on Biomedical Engineering, 2010, 57, 499-508. | 4.2 | 19 |
| 27 | Combining Bottom-Up and Top-Down Visual Mechanisms for Color Constancy Under Varying Illumination. IEEE Transactions on Image Processing, 2019, 28, 4387-4400. | 9.8 | 19 |
| 28 | ID-YOLO: Real-Time Salient Object Detection Based on the Driver's Fixation Region. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 15898-15908. | 8.0 | 18 |
| 29 | An approaching genetic algorithm for automatic beam angle selection in IMRT planning. Computer Methods and Programs in Biomedicine, 2009, 93, 257-265. | 4.7 | 17 |
| 30 | A Local and Global Feature Disentangled Network: Toward Classification of Benign-Malignant Thyroid Nodules From Ultrasound Image. IEEE Transactions on Medical Imaging, 2022, 41, 1497-1509. | 8.9 | 16 |
| 31 | Improving color constancy by selecting suitable set of training images. Optics Express, 2019, 27, 25611. | 3.4 | 13 |
| 32 | Saliency Detection Inspired by Topological Perception Theory. International Journal of Computer Vision, 2021, 129, 2352-2374. | 15.6 | 12 |
| 33 | A Support Vector Machine Based Algorithm for Magnetic Resonance Image Segmentation. , 2008, , . | | 11 |
| 34 | Global-prior-guided fusion network for salient object detection. Expert Systems With Applications, 2022, 198, 116805. | 7.6 | 9 |
| 35 | A Textural Feature-Based Image Retrieval Algorithm. , 2008, , . | | 6 |
| 36 | Enhancing in-tree-based clustering via distance ensemble and kernelization. Pattern Recognition, 2021, 112, 107731. | 8.1 | 6 |

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|---|---------|-----|-----------|
| 37 | Nighttime Thermal Infrared Image Colorization with Dynamic Label Mining. Lecture Notes in Computer Science, 2021, , 388-399. | 1.3 | 6 |
| 38 | Retina inspired tone mapping method for high dynamic range images. Optics Express, 2020, 28, 5953. | 3.4 | 6 |
| 39 | A new representation of scene layout improves saliency detection in traffic scenes. Expert Systems With Applications, 2022, 193, 116425. | 7.6 | 6 |
| 40 | Potential roles of the interaction between model V1 neurons with orientation-selective and non-selective surround inhibition in contour detection. Frontiers in Neural Circuits, 2015, 9, 30. | 2.8 | 5 |
| 41 | A Fish Retina-Inspired Single Image Dehazing Method. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 1875-1888. | 8.3 | 5 |
| 42 | Contour detection based on the property of orientation selective inhibition of non-classical receptive field. , 2008, , . | | 4 |
| 43 | A Coutour Detection Model Based on Surround Inhibition with Multiple Cues. Communications in Computer and Information Science, 2012, , 145-152. | 0.5 | 3 |
| 44 | Silent suppressive surrounds and optimal spatial frequencies of single neurons in cat V1. Neuroscience Letters, 2015, 597, 104-110. | 2.1 | 3 |
| 45 | Notice of Violation of IEEE Publication Principles: Tone Mapping Beyond the Classical Receptive Field. IEEE Transactions on Image Processing, 2020, 29, 4174-4187. | 9.8 | 3 |
| 46 | A Video Salient Object Detection Model Guided by Spatio-Temporal Prior. , 2019, , . | | 2 |
| 47 | A computational model for gestalt proximity principle on dot patterns and beyond. Journal of Vision, 2021, 21, 23. | 0.3 | 2 |
| 48 | A DNA genetic algorithm for beam angle selection in radiotherapy planning. , 2008, , . | | 1 |
| 49 | Dynamic 3D radiomics analysis using artificial intelligence to assess the stage of COVID-19 on CT images. European Radiology, 2022, 32, 4760-4770. | 4.5 | 1 |
| 50 | Nearest Descent, In-Tree, and Clustering. Mathematics, 2022, 10, 764. | 2.2 | 1 |
| 51 | Contour-guided saliency detection with long-range interactions. Neurocomputing, 2022, 488, 345-358. | 5.9 | 1 |
| 52 | A hybrid face recognition algorithm based on WT, NMFs and SVM. , 2008, , . | | 0 |
| 53 | Fixation Prediction based on Scene Contours. , 2019, , . | | 0 |