

# Huiqi Li

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

1,453  
citations

361413

20  
h-index

361022

35  
g-index

66  
all docs

66  
docs citations

66  
times ranked

1409  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Synthesizing retinal and neuronal images with generative adversarial nets. Medical Image Analysis, 2018, 49, 14-26.  | 11.6 | 141       |
| 2  | Supervised Segmentation of Un-Annotated Retinal Fundus Images by Synthesis. IEEE Transactions on Medical Imaging, 2019, 38, 46-56.   | 8.9  | 79        |
| 3  | Deep Representation-Based Domain Adaptation for Nonstationary EEG Classification. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 535-545.  | 11.3 | 78        |
| 4  | A Graph-Theoretical Approach for Tracing Filamentary Structures in Neuronal and Retinal Images. IEEE Transactions on Medical Imaging, 2016, 35, 257-272.   | 8.9  | 75        |
| 5  | A Computer-Aided Diagnosis System of Nuclear Cataract. IEEE Transactions on Biomedical Engineering, 2010, 57, 1690-1698.   | 4.2  | 72        |
| 6  | Automatic Cataract Classification Using Deep Neural Network With Discrete State Transition. IEEE Transactions on Medical Imaging, 2020, 39, 436-446.   | 8.9  | 61        |
| 7  | Hierarchical method for cataract grading based on retinal images using improved Haar wavelet. Information Fusion, 2020, 53, 196-208.   | 19.1 | 59        |
| 8  | A retinal vessel boundary tracking method based on Bayesian theory and multi-scale line detection. Computerized Medical Imaging and Graphics, 2014, 38, 517-525.   | 5.8  | 56        |
| 9  | An Approach to Evaluate Blurriness in Retinal Images with Vitreous Opacity for Cataract Diagnosis. Journal of Healthcare Engineering, 2017, 2017, 1-16.  | 1.9  | 52        |
| 10 | Automatic location of optic disk in retinal images. , 0, , .   |      | 50        |
| 11 | An enhancement method for color retinal images based on image formation model. Computer Methods and Programs in Biomedicine, 2017, 143, 137-150.   | 4.7  | 44        |
| 12 | Overcoming Multi-Model Forgetting in One-Shot NAS With Diversity Maximization. , 2020, , .   |      | 43        |
| 13 | Detection of Pathological Myopia by PAMELA with Texture-Based Features through an SVM Approach. Journal of Healthcare Engineering, 2010, 1, 1-12.  | 1.9  | 40        |
| 14 | Automated segmentation of overlapped nuclei using concave point detection and segment grouping. Pattern Recognition, 2017, 71, 349-360.  | 8.1  | 40        |
| 15 | Convolutional Neural Networks-Based Lung Nodule Classification: A Surrogate-Assisted Evolutionary Algorithm for Hyperparameter Optimization. IEEE Transactions on Evolutionary Computation, 2021, 25, 869-882. | 10.0 | 40        |
| 16 | An approach to locate optic disc in retinal images with pathological changes. Computerized Medical Imaging and Graphics, 2016, 47, 40-50.  | 5.8  | 39        |
| 17 | Segment 2D and 3D Filaments by Learning Structured and Contextual Features. IEEE Transactions on Medical Imaging, 2017, 36, 596-606.   | 8.9  | 39        |
| 18 | Automatic Analysis of Lateral Cephalograms Based on Multiresolution Decision Tree Regression Voting. Journal of Healthcare Engineering, 2018, 2018, 1-15.  | 1.9  | 38        |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | Retinal image enhancement using low-pass filtering and $\hat{L}$ -rooting. Signal Processing, 2020, 170, 107445.  | 3.7  | 34        |
| 20 | An adaptive multi-objective evolutionary algorithm for constrained workflow scheduling in Clouds. Distributed and Parallel Databases, 2018, 36, 339-368.                            | 1.6  | 31        |
| 21 | Improving retinal vessel segmentation with joint local loss by matting. Pattern Recognition, 2020, 98, 107068.  | 8.1  | 30        |
| 22 | One-Shot Neural Architecture Search: Maximising Diversity to Overcome Catastrophic Forgetting. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 2921-2935. | 13.9 | 27        |
| 23 | A hierarchical deep learning approach with transparency and interpretability based on small samples for glaucoma diagnosis. Npj Digital Medicine, 2021, 4, 48.                      | 10.9 | 19        |
| 24 | Data-Driven Enhancement of Blurry Retinal Images via Generative Adversarial Networks. Lecture Notes in Computer Science, 2019, , 75-83.   | 1.3  | 19        |
| 25 | Collective cell polarization and alignment on curved surfaces. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 88, 330-339.                                       | 3.1  | 17        |
| 26 | Enhancement of blurry retinal image based on non-uniform contrast stretching and intensity transfer. Medical and Biological Engineering and Computing, 2020, 58, 483-496.           | 2.8  | 17        |
| 27 | Automatic detection and boundary estimation of the optic disk in retinal images using a model-based approach. Journal of Electronic Imaging, 2003, 12, 97.                          | 0.9  | 16        |
| 28 | A reference direction and entropy based evolutionary algorithm for many-objective optimization. Applied Soft Computing Journal, 2018, 70, 108-130.                                  | 7.2  | 16        |
| 29 | Image based grading of nuclear cataract by SVM regression. , 2008, , .  |      | 15        |
| 30 | Retinal vascular junction detection and classification via deep neural networks. Computer Methods and Programs in Biomedicine, 2020, 183, 105096.                                   | 4.7  | 15        |
| 31 | One-Shot Neural Architecture Search via Novelty Driven Sampling. , 2020, , .  |      | 14        |
| 32 | Automatic detection of posterior subcapsular cataract opacity for cataract screening. , 2010, 2010, 5359-62.  |      | 13        |
| 33 | Image based diagnosis of cortical cataract. , 2008, 2008, 3904-7.   |      | 12        |
| 34 | Automatic detection of parapapillary atrophy and its association with children myopia. Computer Methods and Programs in Biomedicine, 2020, 183, 105090.                             | 4.7  | 12        |
| 35 | Burden Surface Decision Using MODE With TOPSIS in Blast Furnace Ironmkaing. IEEE Access, 2020, 8, 35712-35725.  | 4.2  | 12        |
| 36 | High Dimensional Bayesian Optimization via Supervised Dimension Reduction. , 2019, , .  |      | 12        |

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|----|--|-----|-----------|
| 37 | Lens opacity detection for serious posterior subcapsular cataract. Medical and Biological Engineering and Computing, 2017, 55, 769-779.  | 2.8 | 11        |
| 38 | Changes in anteroposterior position and inclination of the maxillary incisors after surgical-orthodontic treatment of skeletal class III malocclusions. Journal of Cranio-Maxillo-Facial Surgery, 2015, 43, 1986-1993.                               | 1.7 | 10        |
| 39 | Automatic analysis system of calcaneus radiograph: Rotation-invariant landmark detection for calcaneal angle measurement, fracture identification and fracture region segmentation. Computer Methods and Programs in Biomedicine, 2021, 206, 106124. | 4.7 | 9         |
| 40 | Detail-richest-channel based enhancement for retinal image and beyond. Biomedical Signal Processing and Control, 2021, 69, 102933.   | 5.7 | 7         |
| 41 | Data and knowledge driven approach for burden surface optimization in blast furnace. Computers and Electrical Engineering, 2021, 92, 107191.   | 4.8 | 6         |
| 42 | Lens image registration for cataract detection. , 2011, , .  |     | 5         |
| 43 | Matrix Function Optimization Problems Under Orthonormal Constraint. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 802-814.  | 9.3 | 4         |
| 44 | An automatic evaluation method for retinal image registration based on similar vessel structure matching. Medical and Biological Engineering and Computing, 2020, 58, 117-129.   | 2.8 | 4         |
| 45 | Automatic detection of arteriovenous nicking in retinal images. , 2016, , .  |     | 3         |
| 46 | A novel contour-based registration of lateral cephalogram and profile photograph. Computerized Medical Imaging and Graphics, 2018, 63, 9-23.   | 5.8 | 3         |
| 47 | The Arteriovenous Classification in Retinal Images by U-net and Tracking Algorithm. , 2020, , .  |     | 3         |
| 48 | An automatic evaluation method for retinal image registration. , 2017, , .   |     | 2         |
| 49 | Automatic segmentation of PPA in retinal images. , 2018, , .   |     | 2         |
| 50 | Data augmentation for medical image analysis. , 2022, , 279-302.   |     | 2         |
| 51 | An improved classified vector quantization for medical image. , 2015, , .  |     | 1         |
| 52 | Depth estimation from a single image in pedestrian candidate generation. , 2016, , .   |     | 1         |
| 53 | Segmentaion of Parapapillary Atrophy in Retinal Images using HED. , 2019, , .  |     | 1         |
| 54 | Retinal vascular analysis: Segmentation, tracing, and beyond. , 2019, , 95-120.  |     | 1         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Peripapillary Atrophy Segmentation with Boundary Guidance. Lecture Notes in Computer Science, 2021, , 101-108.  | 1.3 | 1         |
| 56 | Retinal vessel measurement using model fitting approach. , 2012, , .  |     | 0         |
| 57 | An evolutionary algorithm with 2-D encoding for image segmentation. , 2017, , .   |     | 0         |
| 58 | Automatic directional analysis of cell microscopy images. , 2017, , .   |     | 0         |
| 59 | Automatic directional analysis of cell fluorescence images and morphological modeling of microfilaments. Medical and Biological Engineering and Computing, 2019, 57, 325-337. | 2.8 | 0         |
| 60 | Automatic Calculation of Resolution in Lateral Cephalogram Based on Scale Mark Detection. , 2019, , .   |     | 0         |
| 61 | Refinement of Parapapillary Atrophy Segmentation Based on Conditional Random Field. , 2019, , .   |     | 0         |
| 62 | Identify the Main Retinal Vessels using Vessel Structure Similarity Assessment. , 2021, , .   |     | 0         |
| 63 | Peripapillary Atrophy Segmentation Based on ASM Loss. , 2022, , .   |     | 0         |
| 64 | AMD Classification Based on Adversarial Domain Adaptation with Center Loss. , 2022, , .   |     | 0         |
| 65 | MSRT: Multi-Scale Spatial Regularization Transformer For Multi-Label Classification in Calcaneus Radiograph. , 2022, , .  |     | 0         |