

Dadong Wang

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

1,180
citations

430754

18
h-index

414303

32
g-index

64
all docs

64
docs citations

64
times ranked

1490
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Early lessons in deploying cameras and artificial intelligence technology for fisheries catch monitoring: where machine learning meets commercial fishing. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2022, 79, 257-266. | 0.7 | 7 |
| 2 | Weakly Supervised RGB-D Salient Object Detection With Prediction Consistency Training and Active Scribble Boosting. <i>IEEE Transactions on Image Processing</i> , 2022, 31, 2148-2161. | 6.0 | 12 |
| 3 | Computer-Aided Diagnosis of Coal Workersâ€™ Pneumoconiosis in Chest X-ray Radiographs Using Machine Learning: A Systematic Literature Review. <i>International Journal of Environmental Research and Public Health</i> , 2022, 19, 6439. | 1.2 | 24 |
| 4 | Local-CycleGAN: a general end-to-end network for visual enhancement in complex deep-water environment. <i>Applied Intelligence</i> , 2021, 51, 1947-1958. | 3.3 | 22 |
| 5 | Automated detection of pneumoconiosis with multilevel deep features learned from chest X-Ray radiographs. <i>Computers in Biology and Medicine</i> , 2021, 129, 104125. | 3.9 | 29 |
| 6 | Automatic detection of fish and tracking of movement for ecology. <i>Ecology and Evolution</i> , 2021, 11, 8254-8263. | 0.8 | 39 |
| 7 | Deep learning methods applied to electronic monitoring data: automated catch event detection for longline fishing. <i>ICES Journal of Marine Science</i> , 2021, 78, 25-35. | 1.2 | 6 |
| 8 | Bidirectional Convolutional-LSTM based Network for lung segmentation of chest X-ray images. , 2021, , . | | 2 |
| 9 | Image data augmentation for improving performance of deep learning-based model in pathological lung segmentation. , 2021, , . | | 3 |
| 10 | Guidelines for establishing a 3-D printing biofabrication laboratory. <i>Biotechnology Advances</i> , 2020, 45, 107652. | 6.0 | 11 |
| 11 | Machine intelligence for nerve conduit design and production. <i>Journal of Biological Engineering</i> , 2020, 14, 25. | 2.0 | 17 |
| 12 | Structural correlation filters combined with a Gaussian particle filter for hierarchical visual tracking. <i>Neurocomputing</i> , 2020, 398, 235-246. | 3.5 | 6 |
| 13 | Performance Comparison of Deep Learning Models for Black Lung Detection on Chest X-ray Radiographs. , 2020, , . | | 10 |
| 14 | Automated Pneumoconiosis Detection on Chest X-Rays Using Cascaded Learning with Real and Synthetic Radiographs. , 2020, , . | | 11 |
| 15 | Design of multi-scale receptive field convolutional neural network for surface inspection of hot rolled steels. <i>Image and Vision Computing</i> , 2019, 89, 12-20. | 2.7 | 28 |
| 16 | An accurate black lung detection using transfer learning based on deep neural networks. , 2019, , . | | 7 |
| 17 | Squeezed Bilinear Pooling for Fine-Grained Visual Categorization. , 2019, , . | | 7 |
| 18 | Assessment and Elimination of Inflammatory Cell: A Machine Learning Approach in Digital Cytology. , 2019, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Object tracking in the presence of shaking motions. <i>Neural Computing and Applications</i> , 2019, 31, 5917-5934. | 3.2 | 8 |
| 20 | Retinex based low-light image enhancement using guided filtering and variational framework. <i>Optoelectronics Letters</i> , 2018, 14, 156-160. | 0.4 | 8 |
| 21 | Rail Profile Measurement Based on Line-structured Light Vision. <i>IEEE Access</i> , 2018, 6, 16423-16431. | 2.6 | 42 |
| 22 | Online Surface Defect Identification of Cold Rolled Strips Based on Local Binary Pattern and Extreme Learning Machine. <i>Metals</i> , 2018, 8, 197. | 1.0 | 21 |
| 23 | A low dose and in-vivo imaging system based on equally sloped tomography. , 2017, , . | | 0 |
| 24 | Hybrid deep learning for automated lepidopteran insect image classification. <i>Oriental Insects</i> , 2017, 51, 79-91. | 0.1 | 27 |
| 25 | Automated Image Analysis on Insect Soups. , 2016, , . | | 6 |
| 26 | A robust method for high-precision quantification of the complex three-dimensional vasculatures acquired by X-ray microtomography. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 1216-1226. | 1.0 | 9 |
| 27 | Automated vein detection for drill core analysis by fusion of hyperspectral and visible image data. , 2016, , . | | 3 |
| 28 | Quantitative analysis of 3D vasculature for evaluation of angiogenesis in liver fibrosis with SR- μ CT. <i>Nuclear Science and Techniques/Hewuli</i> , 2016, 27, 1. | 1.3 | 1 |
| 29 | Single image depth estimation based on convolutional neural network and sparse connected conditional random field. <i>Optical Engineering</i> , 2016, 55, 103101. | 0.5 | 3 |
| 30 | Neuroprotective effects of apigenin against inflammation, neuronal excitability and apoptosis in an induced pluripotent stem cell model of Alzheimer's disease. <i>Scientific Reports</i> , 2016, 6, 31450. | 1.6 | 186 |
| 31 | Automatic Lung Field Segmentation in X-ray Radiographs Using Statistical Shape and Appearance Models. <i>Journal of Medical Imaging and Health Informatics</i> , 2016, 6, 338-348. | 0.2 | 24 |
| 32 | Automated Opal Grading by Imaging and Statistical Learning. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2016, 46, 185-201. | 5.9 | 10 |
| 33 | Automatic Fish Recognition and Counting in Video Footage of Fishery Operations. , 2015, , . | | 6 |
| 34 | Intelligent tuna recognition for fisheries monitoring. , 2015, , . | | 1 |
| 35 | Parallel multi-level 2D-DWT on CUDA GPUs and its application in ring artifact removal. <i>Concurrency Computation Practice and Experience</i> , 2015, 27, 5188-5202. | 1.4 | 3 |
| 36 | Combination Therapy With Nitric Oxide and Molecular Hydrogen in a Murine Model of Acute Lung Injury. <i>Shock</i> , 2015, 43, 504-511. | 1.0 | 37 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Rib suppression in chest radiographs for lung nodule enhancement. , 2015, , . | | 4 |
| 38 | Towards Automated Quantitative Vasculature Understanding via Ultra High-Resolution Imagery. Advances in Experimental Medicine and Biology, 2015, 823, 177-189. | 0.8 | 2 |
| 39 | Cloud Based Toolbox for Image Analysis, Processing and Reconstruction Tasks. Advances in Experimental Medicine and Biology, 2015, 823, 191-205. | 0.8 | 13 |
| 40 | Automated quantification of neurite outgrowth orientation distributions on patterned surfaces. Journal of Neural Engineering, 2014, 11, 046006. | 1.8 | 5 |
| 41 | A Modular Learning Approach for Fish Counting and Measurement Using Stereo Baited Remote Underwater Video. , 2014, , . | | 7 |
| 42 | An improved method for the removal of ring artifacts in synchrotron radiation images by using GPGPU computing with compute unified device architecture. Concurrency Computation Practice and Experience, 2014, 26, 2880-2892. | 1.4 | 1 |
| 43 | Galaxy + Hadoop: Toward a Collaborative and Scalable Image Processing Toolbox in Cloud. Lecture Notes in Computer Science, 2014, , 339-351. | 1.0 | 6 |
| 44 | Soft Cost Aggregation with Multi-resolution Fusion. Lecture Notes in Computer Science, 2014, , 17-32. | 1.0 | 15 |
| 45 | Cloud Computing for High Performance Image Analysis on a National Infrastructure. , 2013, , . | | 1 |
| 46 | Decomposition of volume scattering, polarized light and chlorophyll fluorescence by in-situ polarization measurement. , 2013, , . | | 1 |
| 47 | Applications of heterogeneous computing in computational and simulation science. International Journal of Computational Science and Engineering, 2013, 8, 240. | 0.4 | 4 |
| 48 | Biomedical image analysis and processing in clouds. AIP Conference Proceedings, 2013, , . | 0.3 | 3 |
| 49 | Preface: 2013 International Symposium on Computational Models for Life Sciences. , 2013, , . | | 0 |
| 50 | Comparison Study of Two Energy Minimization Based Image Segmentation Methods. , 2011, , . | | 0 |
| 51 | High-Throughput Detection of Linear Features: Selected Applications in Biological Imaging. Biological and Medical Physics Series, 2011, , 167-191. | 0.3 | 1 |
| 52 | HCA-Vision: Automated Neurite Outgrowth Analysis. Journal of Biomolecular Screening, 2010, 15, 1165-1170. | 2.6 | 46 |
| 53 | Improved marker-controlled watershed segmentation with local boundary priors. , 2010, , . | | 5 |
| 54 | Linear Feature Detection on GPUs. , 2010, , . | | 6 |

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|----|--|-----|-----------|
| 55 | Membrane boundary extraction using circular multiple paths. Pattern Recognition, 2009, 42, 523-530. | 5.1 | 14 |
| 56 | Multiple manifolds analysis and its application to fault diagnosis. Mechanical Systems and Signal Processing, 2009, 23, 2500-2509. | 4.4 | 44 |
| 57 | Segmentation and tracking individual Pseudomonas aeruginosa bacteria in dense populations of motile cells. , 2009, , . | | 12 |
| 58 | Multiscale morphology analysis and its application to fault diagnosis. Mechanical Systems and Signal Processing, 2008, 22, 597-610. | 4.4 | 162 |
| 59 | Membrane Boundary Extraction Using a Circular Shortest Path Technique. AIP Conference Proceedings, 2007, , . | 0.3 | 2 |
| 60 | Automated analysis of neurite branching in cultured cortical neurons using HCAâ€œVision. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2007, 71A, 889-895. | 1.1 | 62 |
| 61 | Computational Intelligence-Based Process Optimization for Tandem Cold Rolling. Materials and Manufacturing Processes, 2005, 20, 479-496. | 2.7 | 28 |
| 62 | Friction measurement in cold rolling. Journal of Materials Processing Technology, 2001, 111, 142-145. | 3.1 | 42 |
| 63 | Toward a heuristic optimum design of rolling schedules for tandem cold rolling mills. Engineering Applications of Artificial Intelligence, 2000, 13, 397-406. | 4.3 | 57 |
| 64 | Fish Counting and Measurement. Advances in Environmental Engineering and Green Technologies Book Series, 0, , 41-57. | 0.3 | 1 |