

Xianghua Xie

List of Publications by Year in descending order

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106
papers

1,689
citations

361413

20
h-index

330143

37
g-index

111
all docs

111
docs citations

111
times ranked

1607
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Fully Connected Networks on a Diet With the Mediterranean Matrix Multiplication. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 634-647. | 11.3 | 0 |
| 2 | Joint multi-label learning and feature extraction for temporal link prediction. Pattern Recognition, 2022, 121, 108216. | 8.1 | 17 |
| 3 | MLMT-CNN for object detection and segmentation in multi-layer and multi-spectral images. Machine Vision and Applications, 2022, 33, 1. | 2.7 | 1 |
| 4 | A Deep Learning Driven Active Framework for Segmentation of Large 3D Shape Collections. CAD Computer Aided Design, 2022, 144, 103179. | 2.7 | 3 |
| 5 | A directed graph convolutional neural network for edge-structured signals in link-fault detection. Pattern Recognition Letters, 2022, 153, 100-106. | 4.2 | 11 |
| 6 | GRNN: Generative Regression Neural Network—A Data Leakage Attack for Federated Learning. ACM Transactions on Intelligent Systems and Technology, 2022, 13, 1-24. | 4.5 | 18 |
| 7 | MSMT-CNN for Solar Active Region Detection with Multi-Spectral Analysis. SN Computer Science, 2022, 3, 1. | 3.6 | 1 |
| 8 | Modeling Large Sparse Data for Feature Selection: Hospital Admission Predictions of the Dementia Patients Using Primary Care Electronic Health Records. IEEE Journal of Translational Engineering in Health and Medicine, 2021, 9, 1-13. | 3.7 | 16 |
| 9 | Graph Convolution Networks for Cell Segmentation. , 2021, , . | | 0 |
| 10 | Active Region Detection in Multi-spectral Solar Images. , 2021, , . | | 2 |
| 11 | An Ensemble of Deep Learning-Based Multi-Model for ECG Heartbeats Arrhythmia Classification. IEEE Access, 2021, 9, 103452-103464. | 4.2 | 59 |
| 12 | Modelling and upscaling ecosystem respiration using thermal cameras and UAVs: Application to a peatland during and after a hot drought. Agricultural and Forest Meteorology, 2021, 300, 108330. | 4.8 | 8 |
| 13 | Deep Collaborative Learning for Randomly Wired Neural Networks. Electronics (Switzerland), 2021, 10, 1669. | 3.1 | 1 |
| 14 | Pruning CNN filters via quantifying the importance of deep visual representations. Computer Vision and Image Understanding, 2021, 208-209, 103220. | 4.7 | 15 |
| 15 | TLGP: a flexible transfer learning algorithm for gene prioritization based on heterogeneous source domain. BMC Bioinformatics, 2021, 22, 274. | 2.6 | 4 |
| 16 | Graph Deep Learning: State of the Art and Challenges. IEEE Access, 2021, 9, 22106-22140. | 4.2 | 36 |
| 17 | Literature Review of Deep Network Compression. Informatics, 2021, 8, 77. | 3.9 | 17 |
| 18 | Deep Time-Series Clustering: A Review. Electronics (Switzerland), 2021, 10, 3001. | 3.1 | 36 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | 3D Interactive Segmentation With Semi-Implicit Representation and Active Learning. IEEE Transactions on Image Processing, 2021, 30, 9402-9417. | 9.8 | 3 |
| 20 | Harnessing the Power of Machine Learning in Dementia Informatics Research: Issues, Opportunities, and Challenges. IEEE Reviews in Biomedical Engineering, 2020, 13, 113-129. | 18.0 | 33 |
| 21 | Automatic vessel lumen segmentation in optical coherence tomography (OCT) images. Applied Soft Computing Journal, 2020, 88, 106042. | 7.2 | 8 |
| 22 | Graph convolutional neural network for multi-scale feature learning. Computer Vision and Image Understanding, 2020, 194, 102881. | 4.7 | 3 |
| 23 | Inferring Attention Shift Ranks of Objects for Image Saliency. , 2020, , . | | 21 |
| 24 | TimeCluster: dimension reduction applied to temporal data for visual analytics. Visual Computer, 2019, 35, 1013-1026. | 3.5 | 72 |
| 25 | Consistent segment-wise matching with multi-layer graphs. Computer Aided Geometric Design, 2019, 70, 31-45. | 1.2 | 0 |
| 26 | Coupled sâ€xcess HMM for vessel border tracking and segmentation. International Journal for Numerical Methods in Biomedical Engineering, 2019, 35, e3206. | 2.1 | 1 |
| 27 | Clustering and Classification for Time Series Data in Visual Analytics: A Survey. IEEE Access, 2019, 7, 181314-181338. | 4.2 | 42 |
| 28 | Determining Lead-Lag Structure between Sentiment Index and Stock Price Returns. , 2019, , . | | 0 |
| 29 | 3D mesh segmentation via multi-branch 1D convolutional neural networks. Graphical Models, 2018, 96, 1-10. | 2.4 | 26 |
| 30 | Estimating the accuracy of a reducedâ€order model for the calculation of fractional flow reserve (FFR). International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e2908. | 2.1 | 54 |
| 31 | Phase contrast cell detection using multilevel classification. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e2916. | 2.1 | 12 |
| 32 | Towards Visual Exploration of Large Temporal Datasets. , 2018, , . | | 3 |
| 33 | Recurrent Neural Networks for Financial Time-Series Modelling. , 2018, , . | | 8 |
| 34 | An improved method of computing geometrical potential force (GPF) employed in the segmentation of 3D and 4D medical images. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2017, 5, 287-296. | 1.9 | 1 |
| 35 | Labeling subtle conversational interactions within the CONVERSE dataset. , 2017, , . | | 0 |
| 36 | Recognition, Tracking, and Optimisation. International Journal of Computer Vision, 2017, 122, 409-410. | 15.6 | 5 |

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|----|---|-----|-----------|
| 37 | AMD Classification in Choroidal OCT Using Hierarchical Texton Mining. Lecture Notes in Computer Science, 2017, , 237-248. | 1.3 | 1 |
| 38 | Automatic segmentation of cross-sectional coronary arterial images. Computer Vision and Image Understanding, 2017, 165, 97-110. | 4.7 | 13 |
| 39 | Nested Shallow CNN-Cascade for Face Detection in the Wild. , 2017, , . | | 5 |
| 40 | Learning feature extractors for AMD classification in OCT using convolutional neural networks. , 2017, , . | | 3 |
| 41 | Detect face in the wild using CNN cascade with feature aggregation at multi-resolution. , 2017, , . | | 1 |
| 42 | Registration and Modeling From Spaced and Misaligned Image Volumes. IEEE Transactions on Image Processing, 2016, 25, 4379-4393. | 9.8 | 3 |
| 43 | Fixing the root node: Efficient tracking and detection of 3D human pose through local solutions. Image and Vision Computing, 2016, 52, 73-87. | 4.5 | 2 |
| 44 | From pose to activity: Surveying datasets and introducing CONVERSE. Computer Vision and Image Understanding, 2016, 144, 73-105. | 4.7 | 21 |
| 45 | Energy minimization in medical image analysis: Methodologies and applications. International Journal for Numerical Methods in Biomedical Engineering, 2016, 32, e02733. | 2.1 | 8 |
| 46 | Age-Related Macular Degeneration Detection and Stage Classification Using Choroidal OCT Images. Lecture Notes in Computer Science, 2016, , 707-715. | 1.3 | 11 |
| 47 | Interactive 3D Segmentation of Lymphatic Valves in Confocal Microscopic Images. Lecture Notes in Computer Science, 2016, , 198-205. | 1.3 | 0 |
| 48 | Finding complete 3D vertex correspondence for statistical shape modeling. , 2015, 2015, 2912-5. | | 0 |
| 49 | Automatic segmentation of lymph vessel wall using optimal surface graph cut and hidden Markov Models. , 2015, 2015, 2403-6. | | 1 |
| 50 | A multi-stage random forest classifier for phase contrast cell segmentation. , 2015, 2015, 3865-8. | | 4 |
| 51 | Divergence of Gradient Convolution: Deformable Segmentation With Arbitrary Initializations. IEEE Transactions on Image Processing, 2015, 24, 3902-3914. | 9.8 | 6 |
| 52 | Computer Vision Techniques for Transcatheter Intervention. IEEE Journal of Translational Engineering in Health and Medicine, 2015, 3, 1-31. | 3.7 | 150 |
| 53 | Graph Based Lymphatic Vessel Wall Localisation and Tracking. Lecture Notes in Computer Science, 2015, , 345-354. | 1.3 | 2 |
| 54 | Minimum S-Excess Graph for Segmenting and Tracking Multiple Borders with HMM. Lecture Notes in Computer Science, 2015, , 28-35. | 1.3 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Automatic Aortic Root Segmentation with Shape Constraints and Mesh Regularisation. , 2015, , . | | 3 |
| 56 | Generating Local Temporal Poses from Gestures with Aligned Cluster Analysis for Human Action Recognition. , 2015, , . | | 0 |
| 57 | Analysis of face and segment level descriptors for robust 3D co-segmentation. , 2015, , . | | 0 |
| 58 | Footstep pressure signal analysis for human identification. , 2014, , . | | 7 |
| 59 | An adaptive denoising method used in MRI. , 2014, , . | | 0 |
| 60 | Protein classification using Hidden Markov models and randomised decision trees. , 2014, , . | | 3 |
| 61 | 3D interactive coronary artery segmentation using random forests and Markov random field optimization. , 2014, , . | | 2 |
| 62 | Segmentation of biomedical images using active contour model with robust image feature and shape prior. International Journal for Numerical Methods in Biomedical Engineering, 2014, 30, 232-248. | 2.1 | 23 |
| 63 | A bag of words approach to subject specific 3D human pose interaction classification with random decision forests. Graphical Models, 2014, 76, 162-171. | 2.4 | 10 |
| 64 | Combining region-based and imprecise boundary-based cues for interactive medical image segmentation. International Journal for Numerical Methods in Biomedical Engineering, 2014, 30, 1649-1666. | 2.1 | 19 |
| 65 | Integrated Segmentation and Interpolation of Sparse Data. IEEE Transactions on Image Processing, 2014, 23, 110-125. | 9.8 | 16 |
| 66 | Conversational Interaction Recognition Based on Bodily and Facial Movement. Lecture Notes in Computer Science, 2014, , 237-245. | 1.3 | 1 |
| 67 | Shape and appearance priors for level set-based left ventricle segmentation. IET Computer Vision, 2013, 7, 170-183. | 2.0 | 12 |
| 68 | Graph based segmentation with minimal user interaction. , 2013, , . | | 2 |
| 69 | Image Gradient Based Level Set Methods in 2D and 3D. Lecture Notes in Computational Vision and Biomechanics, 2013, , 101-120. | 0.5 | 1 |
| 70 | From clamped local shape models to global shape model. , 2013, , . | | 3 |
| 71 | Shape Prior Model for Media-Adventitia Border Segmentation in IVUS Using Graph Cut. Lecture Notes in Computer Science, 2013, , 114-123. | 1.3 | 12 |
| 72 | Interactive Segmentation of Media-Adventitia Border in IVUS. Lecture Notes in Computer Science, 2013, , 466-474. | 1.3 | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Segmenting Carotid in CT Using Geometric Potential Field Deformable Model. Springer Proceedings in Mathematics and Statistics, 2013, , 149-162. | 0.2 | 0 |
| 74 | Efficient Geometrical Potential Force Computation for Deformable Model Segmentation. Lecture Notes in Computer Science, 2013, , 104-113. | 1.3 | 0 |
| 75 | Recognizing Conversational Interaction Based on 3D Human Pose. Lecture Notes in Computer Science, 2013, , 138-149. | 1.3 | 1 |
| 76 | An applied study of human detection in single images. , 2012, , . | | 0 |
| 77 | State of the Art Report on Video-Based Graphics and Video Visualization. Computer Graphics Forum, 2012, 31, 2450-2477. | 3.0 | 45 |
| 78 | Automatic Bootstrapping and Tracking of Object Contours. IEEE Transactions on Image Processing, 2012, 21, 1231-1245. | 9.8 | 19 |
| 79 | Tracking 3D human pose with large root node uncertainty. , 2011, , . | | 17 |
| 80 | Geometrically Induced Force Interaction for Three-Dimensional Deformable Models. IEEE Transactions on Image Processing, 2011, 20, 1373-1387. | 9.8 | 27 |
| 81 | Radial basis function based level set interpolation and evolution for deformable modelling. Image and Vision Computing, 2011, 29, 167-177. | 4.5 | 29 |
| 82 | Modelling pipeline for subject-specific arterial blood flow-A review. International Journal for Numerical Methods in Biomedical Engineering, 2011, 27, 1868-1910. | 2.1 | 34 |
| 83 | Automatic IVUS media-adventitia border extraction using double interface graph cut segmentation. , 2011, , . | | 7 |
| 84 | Extracting 3D Structures from Biomedical Data. , 2011, , . | | 0 |
| 85 | Entropy Driven Hierarchical Search for 3D Human Pose Estimation. , 2011, , . | | 1 |
| 86 | Estimating 3D Human Pose from Single Images Using Iterative Refinement of the Prior. , 2010, , . | | 2 |
| 87 | Level Set Based Segmentation Using Local Feature Distribution. , 2010, , . | | 2 |
| 88 | Initialisation-Free Active Contour Segmentation. , 2010, , . | | 5 |
| 89 | Textured Image Segmentation Using Active Contours. Communications in Computer and Information Science, 2010, , 357-369. | 0.5 | 3 |
| 90 | Active Contouring Based on Gradient Vector Interaction and Constrained Level Set Diffusion. IEEE Transactions on Image Processing, 2010, 19, 154-164. | 9.8 | 77 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 91 | Estimating 3D Pose via Stochastic Search and Expectation Maximization. Lecture Notes in Computer Science, 2010, , 67-77. | 1.3 | 4 |
| 92 | Fast Dynamic Texture Detection. Lecture Notes in Computer Science, 2010, , 680-693. | 1.3 | 2 |
| 93 | Range image registration using hierarchical segmentation and clustering. , 2009, , . | | 1 |
| 94 | On-line Learning of Shape Information for Object Segmentation and Tracking. , 2009, , . | | 3 |
| 95 | Geometric Potential Force for the Deformable Model. , 2009, , . | | 9 |
| 96 | MAC: Magnetostatic Active Contour Model. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, 632-646. | 13.9 | 148 |
| 97 | Correction to "MAC: Magnetostatic Active Contour Model" [Apr 08 632-646]. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2008, 30, Online Only-Online Only. | 13.9 | 46 |
| 98 | TEXEMS: Random Texture Representation and Analysis. , 2008, , 95-127. | | 2 |
| 99 | A Galaxy of Texture Features. , 2008, , 375-406. | | 42 |
| 100 | TEXEMS: Texture Exemplars for Defect Detection on Random Textured Surfaces. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2007, 29, 1454-1464. | 13.9 | 125 |
| 101 | Colour tonality inspection using eigenspace features. Machine Vision and Applications, 2006, 16, 364-373. | 2.7 | 9 |
| 102 | A Charged Active Contour Based on Electrostatics. Lecture Notes in Computer Science, 2006, , 173-184. | 1.3 | 12 |
| 103 | Texture Exemplars for Defect Detection on Random Textures. Lecture Notes in Computer Science, 2005, , 404-413. | 1.3 | 22 |
| 104 | Localising surface defects in random colour textures using multiscale texem analysis in image eigenchannels. , 2005, , . | | 3 |
| 105 | RAGS: Region-Aided Geometric Snake. IEEE Transactions on Image Processing, 2004, 13, 640-652. | 9.8 | 84 |
| 106 | A hybrid method of detecting flame from video stream. IET Image Processing, 0, , . | 2.5 | 0 |