

Bin Sheng

List of Publications by Year in descending order

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Version: 2024-02-01

130
papers

2,848
citations

257101

24
h-index

233125

45
g-index

134
all docs

134
docs citations

134
times ranked

2712
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Colorization. , 2015, , .		364
2	A deep learning system for detecting diabetic retinopathy across the disease spectrum. Nature Communications, 2021, 12, 3242.	5.8	188
3	Computer-Assisted Decision Support System in Pulmonary Cancer detection and stage classification on CT images. Journal of Biomedical Informatics, 2018, 79, 117-128.	2.5	186
4	IDRID: Diabetic Retinopathy “ Segmentation and Grading Challenge. Medical Image Analysis, 2020, 59, 101561.	7.0	162
5	Deep Convolutional Neural Networks for Human Action Recognition Using Depth Maps and Postures. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 1806-1819.	5.9	132
6	Fibroblast growth factor 21 increases insulin sensitivity through specific expansion of subcutaneous fat. Nature Communications, 2018, 9, 272.	5.8	119
7	Clinical Report Guided Retinal Microaneurysm Detection With Multi-Sieving Deep Learning. IEEE Transactions on Medical Imaging, 2018, 37, 1149-1161.	5.4	113
8	Deep Color Guided Coarse-to-Fine Convolutional Network Cascade for Depth Image Super-Resolution. IEEE Transactions on Image Processing, 2019, 28, 994-1006.	6.0	86
9	Cloud-Based Automated Clinical Decision Support System for Detection and Diagnosis of Lung Cancer in Chest CT. IEEE Journal of Translational Engineering in Health and Medicine, 2020, 8, 1-13.	2.2	73
10	Vessel extraction from non-fluorescein fundus images using orientation-aware detector. Medical Image Analysis, 2015, 26, 232-242.	7.0	71
11	Automatic Detection and Classification System of Domestic Waste via Multimodel Cascaded Convolutional Neural Network. IEEE Transactions on Industrial Informatics, 2022, 18, 163-173.	7.2	59
12	Retinal Vessel Segmentation Using Minimum Spanning Superpixel Tree Detector. IEEE Transactions on Cybernetics, 2019, 49, 2707-2719.	6.2	56
13	Deep gesture interaction for augmented anatomy learning. International Journal of Information Management, 2019, 45, 328-336.	10.5	56
14	Automatic Choroid Layer Segmentation from Optical Coherence Tomography Images Using Deep Learning. Scientific Reports, 2019, 9, 3058.	1.6	53
15	Domain-invariant interpretable fundus image quality assessment. Medical Image Analysis, 2020, 61, 101654.	7.0	53
16	Automated Decision Support System for Lung Cancer Detection and Classification via Enhanced RFCN With Multilayer Fusion RPN. IEEE Transactions on Industrial Informatics, 2020, 16, 7791-7801.	7.2	51
17	A Heat-Map-Based Algorithm for Recognizing Group Activities in Videos. IEEE Transactions on Circuits and Systems for Video Technology, 2013, 23, 1980-1992.	5.6	49
18	GreenSea: Visual Soccer Analysis Using Broad Learning System. IEEE Transactions on Cybernetics, 2021, 51, 1463-1477.	6.2	47

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19	Optic Disk and Cup Segmentation Through Fuzzy Broad Learning System for Glaucoma Screening. IEEE Transactions on Industrial Informatics, 2021, 17, 2476-2487.	7.2	38
20	OFF-eNET: An Optimally Fused Fully End-to-End Network for Automatic Dense Volumetric 3D Intracranial Blood Vessels Segmentation. IEEE Transactions on Image Processing, 2020, 29, 7192-7202.	6.0	37
21	Multiview High Dynamic Range Image Synthesis Using Fuzzy Broad Learning System. IEEE Transactions on Cybernetics, 2021, 51, 2735-2747.	6.2	33
22	Feasibility study of mitigation and suppression strategies for controlling COVID-19 outbreaks in London and Wuhan. PLoS ONE, 2020, 15, e0236857.	1.1	32
23	Video Colorization Using Parallel Optimization in Feature Space. IEEE Transactions on Circuits and Systems for Video Technology, 2014, 24, 407-417.	5.6	31
24	Structure-Aware Motion Deblurring Using Multi-Adversarial Optimized CycleGAN. IEEE Transactions on Image Processing, 2021, 30, 6142-6155.	6.0	29
25	Colorization Using Neural Network Ensemble. IEEE Transactions on Image Processing, 2017, 26, 5491-5505.	6.0	27
26	An Investigation of 3D Human Pose Estimation for Learning Tai Chi: A Human Factor Perspective. International Journal of Human-Computer Interaction, 2019, 35, 427-439.	3.3	25
27	Temporally Coherent Video Saliency Using Regional Dynamic Contrast. IEEE Transactions on Circuits and Systems for Video Technology, 2013, 23, 2067-2076.	5.6	22
28	Efficient Body Motion Quantification and Similarity Evaluation Using 3-D Joints Skeleton Coordinates. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 2774-2788.	5.9	22
29	Abdominal adipose tissues extraction using multi-scale deep neural network. Neurocomputing, 2017, 229, 23-33.	3.5	21
30	Deep Neural Representation Guided Face Sketch Synthesis. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 3216-3230.	2.9	21
31	Intrinsic Image Decomposition with Step and Drift Shading Separation. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 1332-1346.	2.9	21
32	Depth-Aware Motion Deblurring Using Loopy Belief Propagation. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 955-969.	5.6	20
33	A New Network-Based Algorithm for Human Activity Recognition in Videos. IEEE Transactions on Circuits and Systems for Video Technology, 2014, 24, 826-841.	5.6	19
34	An accurate multi-modal biometric identification system for person identification via fusion of face and finger print. World Wide Web, 2020, 23, 1299-1317.	2.7	19
35	Automatic Grading System for Diabetic Retinopathy Diagnosis Using Deep Learning Artificial Intelligence Software. Current Eye Research, 2020, 45, 1550-1555.	0.7	18
36	Segmentation of Overlapping Cytoplasm in Cervical Smear Images via Adaptive Shape Priors Extracted From Contour Fragments. IEEE Transactions on Medical Imaging, 2019, 38, 2849-2862.	5.4	17

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37	Outdoor Shadow Estimating Using Multiclass Geometric Decomposition Based on BLS. IEEE Transactions on Cybernetics, 2020, 50, 2152-2165.	6.2	17
38	GPSD: generative parking spot detection using multi-clue recovery model. Visual Computer, 2021, 37, 2657-2669.	2.5	16
39	Unsupervised face super-resolution via gradient enhancement and semantic guidance. Visual Computer, 2021, 37, 2855-2867.	2.5	16
40	Accurate gaze tracking from single camera using gabor corner detector. Multimedia Tools and Applications, 2016, 75, 221-239.	2.6	14
41	Tracking soccer players using spatio-temporal context learning under multiple views. Multimedia Tools and Applications, 2018, 77, 18935-18955.	2.6	14
42	Video Decolorization Using Visual Proximity Coherence Optimization. IEEE Transactions on Cybernetics, 2018, 48, 1406-1419.	6.2	14
43	Liver Extraction Using Residual Convolution Neural Networks From Low-Dose CT Images. IEEE Transactions on Biomedical Engineering, 2019, 66, 2641-2650.	2.5	14
44	Depth of Field Rendering Using Multilayer-Neighborhood Optimization. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 2546-2559.	2.9	14
45	Simplified non-locally dense network for single-image dehazing. Visual Computer, 2020, 36, 2189-2200.	2.5	14
46	Cost-effective broad learning-based ultrasound biomicroscopy with 3D reconstruction for ocular anterior segmentation. Multimedia Tools and Applications, 2021, 80, 35105-35122.	2.6	14
47	Image stylization with enhanced structure on GPU. Science China Information Sciences, 2012, 55, 1093-1105.	2.7	12
48	Image-based non-photorealistic rendering for realtime virtual sculpting. Multimedia Tools and Applications, 2015, 74, 9697-9714.	2.6	12
49	Image saliency detection using Gabor texture cues. Multimedia Tools and Applications, 2016, 75, 16943-16958.	2.6	12
50	Fast and Accurate Retinal Identification System: Using Retinal Blood Vasculature Landmarks. IEEE Transactions on Industrial Informatics, 2019, 15, 4099-4110.	7.2	12
51	Improving Video Temporal Consistency via Broad Learning System. IEEE Transactions on Cybernetics, 2022, 52, 6662-6675.	6.2	12
52	NHBS-Net: A Feature Fusion Attention Network for Ultrasound Neonatal Hip Bone Segmentation. IEEE Transactions on Medical Imaging, 2021, 40, 3446-3458.	5.4	12
53	Image-Aligned Dynamic Liver Reconstruction Using Intra-Operative Field of Views for Minimal Invasive Surgery. IEEE Transactions on Biomedical Engineering, 2019, 66, 2163-2173.	2.5	11
54	The effect of multiple interventions to balance healthcare demand for controlling COVID-19 outbreaks: a modelling study. Scientific Reports, 2021, 11, 3110.	1.6	11

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55	Broad Colorization. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 2330-2343.	7.2	10
56	AFF-Dehazing: Attention-based feature fusion network for low-light image Dehazing. Computer Animation and Virtual Worlds, 2021, 32, e2011.	0.7	10
57	SPST-CNN: Spatial pyramid based searching and tagging of liver's intraoperative live views via CNN for minimal invasive surgery. Journal of Biomedical Informatics, 2020, 106, 103430.	2.5	10
58	Structure-aware QR Code abstraction. Visual Computer, 2015, 31, 1123-1133.	2.5	9
59	Automatic diabetic retinopathy diagnosis using adjustable ophthalmoscope and multi-scale line operator. Pervasive and Mobile Computing, 2017, 41, 490-503.	2.1	9
60	Modified GAN-CAED to Minimize Risk of Unintentional Liver Major Vessels Cutting by Controlled Segmentation Using CTA/SPET-CT. IEEE Transactions on Industrial Informatics, 2021, 17, 7991-8002.	7.2	9
61	Better initialization for regression-based face alignment. Computers and Graphics, 2018, 70, 261-269.	1.4	8
62	Real-time hair simulation with heptadiagonal decomposition on mass spring system. Graphical Models, 2020, 111, 101077.	1.1	8
63	Real-time spatial normalization for dynamic gesture classification. Visual Computer, 2022, 38, 1345-1357.	2.5	8
64	Differential geometry images: remeshing and morphing with local shape preservation. Visual Computer, 2010, 26, 51-62.	2.5	7
65	Retinal optic disc localization using convergence tracking of blood vessels. Multimedia Tools and Applications, 2017, 76, 23309-23331.	2.6	7
66	Temporal Coherence-Based Deblurring Using Non-Uniform Motion Optimization. IEEE Transactions on Image Processing, 2017, 26, 4991-5004.	6.0	7
67	Antialiased super-resolution with parallel high-frequency synthesis. Multimedia Tools and Applications, 2017, 76, 543-560.	2.6	6
68	Dynamic RGB to CMYK conversion using visual contrast optimisation. IET Image Processing, 2017, 11, 539-549.	1.4	6
69	Living Donor-Recipient Pair Matching for Liver Transplant via Ternary Tree Representation With Cascade Incremental Learning. IEEE Transactions on Biomedical Engineering, 2021, 68, 2540-2551.	2.5	6
70	MCGIM-Based Model Streaming for Realtime Progressive Rendering. Journal of Computer Science and Technology, 2011, 26, 166-175.	0.9	5
71	Fast Image Correspondence with Global Structure Projection. Journal of Computer Science and Technology, 2012, 27, 1281-1288.	0.9	5
72	Smart grid data mining and visualization. , 2016, , .		5

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73	Intrinsic image estimation using near- L_0 sparse optimization. Visual Computer, 2017, 33, 355-369.	2.5	5
74	Illumination-aware live videos background replacement using antialiasing optimization. Multimedia Tools and Applications, 2018, 77, 24477-24497.	2.6	5
75	Automatic choroid layer segmentation using normalized graph cut. IET Image Processing, 2018, 12, 53-59.	1.4	5
76	Embedding 3D models in offline physical environments. Computer Animation and Virtual Worlds, 2020, 31, e1959.	0.7	5
77	Image anti-aliasing techniques for Internet visual media processing: a review. Journal of Zhejiang University: Science C, 2014, 15, 717-728.	0.7	4
78	Cloud computing in electric vehicles charging control and dispatch optimization. , 2014, , .		4
79	Structure-preserving image completion with multi-level dynamic patches. Visual Computer, 2019, 35, 85-98.	2.5	4
80	VoxRec: Hybrid Convolutional Neural Network for Active 3D Object Recognition. IEEE Access, 2020, 8, 70969-70980.	2.6	4
81	Experimental protocol designed to employ Nd:YAG laser surgery for anterior chamber glaucoma detection via UBM. IET Image Processing, 2022, 16, 2171-2179.	1.4	4
82	Seamlet carving for shape-aware image resizing. Science China Information Sciences, 2012, 55, 1073-1081.	2.7	3
83	Sketch-based design for green geometry and image deformation. Multimedia Tools and Applications, 2013, 62, 581-599.	2.6	3
84	Load forecast of resource scheduler in cloud architecture. , 2016, , .		3
85	3D Simulation of Interior House Design in VR Using VR3ID Method. , 2018, , .		3
86	Illumination-Guided Video Composition via Gradient Consistency Optimization. IEEE Transactions on Image Processing, 2019, 28, 5077-5090.	6.0	3
87	Video flickering removal using temporal reconstruction optimization. Multimedia Tools and Applications, 2020, 79, 4661-4679.	2.6	3
88	Illumination-Invariant Video Cut-Out Using Octagon Sensitive Optimization. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 1410-1422.	5.6	3
89	Gaze-Contingent Rendering in Virtual Reality. Lecture Notes in Computer Science, 2020, , 16-23.	1.0	3
90	Dynamic Shadow Rendering with Shadow Volume Optimization. Lecture Notes in Computer Science, 2020, , 96-106.	1.0	3

#	ARTICLE	IF	CITATIONS
91	Sketching freeform meshes using graph rotation functions. <i>Visual Computer</i> , 2008, 24, 745-752.	2.5	2
92	Furstyling on angle-split shell textures. <i>Computer Animation and Virtual Worlds</i> , 2009, 20, 205-213.	0.7	2
93	High-availability deployment for large enterprises. , 2016, , .		2
94	Smart grid data analysis and prediction modeling. , 2016, , .		2
95	Failure Resilient Routing via IoT Networks. , 2017, , .		2
96	SRNPD: Spatial rendering network for pencil drawing stylization. <i>Computer Animation and Virtual Worlds</i> , 2019, 30, e1890.	0.7	2
97	Optic Disc and Cup Segmentation Based on Enhanced SegNet. , 2019, , .		2
98	Animating turbulent fluid with a robust and efficient high-order advection method. <i>Computer Animation and Virtual Worlds</i> , 2020, 31, e1951.	0.7	2
99	Hierarchical Rendering System Based on Viewpoint Prediction in Virtual Reality. <i>Lecture Notes in Computer Science</i> , 2020, , 24-32.	1.0	2
100	Malocclusion Treatment Planning via PointNet Based Spatial Transformation Network. <i>Lecture Notes in Computer Science</i> , 2020, , 105-114.	1.0	2
101	Facial expression mapping based on elastic and muscle-distribution-based models. , 2012, , .		1
102	A Customized Framework to Recompress Massive Internet Images. <i>Journal of Computer Science and Technology</i> , 2012, 27, 1129-1139.	0.9	1
103	A Novel and Efficient Hybrid Segmentation Approach for Retinal Vasculature Network. , 2018, , .		1
104	Compensating the vorticity loss during advection with an adaptive vorticity confinement force. <i>Computer Animation and Virtual Worlds</i> , 2021, 32, .	0.7	1
105	FIOU Tracker: An Improved Algorithm of IOU Tracker in Video with a Lot of Background Inferences. <i>Lecture Notes in Computer Science</i> , 2020, , 145-156.	1.0	1
106	Shape Mask Generator: Learning to Refine Shape Priors for Segmenting Overlapping Cervical Cytoplasms. <i>Lecture Notes in Computer Science</i> , 2020, , 639-649.	1.0	1
107	GPU-based Grass Simulation with Accurate Blade Reconstruction. <i>Lecture Notes in Computer Science</i> , 2020, , 288-300.	1.0	1
108	GHand: A Graph Convolution Network for 3D Hand Pose Estimation. <i>Lecture Notes in Computer Science</i> , 2020, , 374-381.	1.0	1

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109	BAW: learning from class imbalance and noisy labels with batch adaptation weighted loss. Multimedia Tools and Applications, 2022, 81, 13593-13610.	2.6	1
110	Lumiproxy: A Hybrid Representation of Image-Based Models. Journal of Computer Science and Technology, 2009, 24, 578-587.	0.9	0
111	Determining event ordering in mobile ad hoc networks. , 2011, , .		0
112	GPU-based Motion Blending for Motion Graphs. , 2011, , .		0
113	Real-time depth-of-field rendering using single-layer composition. Computer Animation and Virtual Worlds, 2014, 25, 233-241.	0.7	0
114	Rolling Shutter Effect Compensation with Global Waves Analysis. , 2015, , .		0
115	Mass data storage platform for smart grid. , 2016, , .		0
116	Image saliency detection based on rectangular-wave spectrum analysis. Multimedia Tools and Applications, 2016, 75, 6173-6187.	2.6	0
117	High Availability Evaluation Utilizing Service Level Agreement. , 2017, , .		0
118	Integrated tone and structure refinement for high-fidelity colour transfer. IET Image Processing, 2017, 11, 1281-1290.	1.4	0
119	An Interior Decoration System via Virtual Reality and Artificial Intelligence. , 2018, , .		0
120	Detect Glaucoma with Image Segmentation and Transfer Learning. , 2019, , .		0
121	Multiview-coherent disocclusion synthesis using connected regions optimization. Computer Animation and Virtual Worlds, 2019, 30, e1894.	0.7	0
122	Multi-Stream Fusion Network for Multi-Distortion Image Super-Resolution. Lecture Notes in Computer Science, 2021, , 242-251.	1.0	0
123	Progressive Multi-scale Reconstruction for Guided Depth Map Super-Resolution via Deep Residual Gate Fusion Network. Lecture Notes in Computer Science, 2021, , 67-79.	1.0	0
124	3D Geology Scene Exploring Base on Hand-Track Somatic Interaction. Lecture Notes in Computer Science, 2020, , 364-373.	1.0	0
125	Broad-Classifer for Remote Sensing Scene Classification with Spatial and Channel-Wise Attention. Lecture Notes in Computer Science, 2020, , 267-275.	1.0	0
126	Title is missing!. , 2020, 15, e0236857.		0

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127	Title is missing!. , 2020, 15, e0236857.		0
128	Title is missing!. , 2020, 15, e0236857.		0
129	Title is missing!. , 2020, 15, e0236857.		0
130	SparseVoxNet: 3-D Object Recognition With Sparsely Aggregation of 3-D Dense Blocks. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 532-546.	7.2	0