Bin Sheng

List of Publications by Year
in descending order

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	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
2	Improving Video Temporal Consistency via Broad Learning System. IEEE Transactions on Cybernetics, 2022, 52, 6662-6675.	6.2	12
3	Real-time spatial normalization for dynamic gesture classification. Visual Computer, 2022, 38, 1345-1357.	2.5	8
4	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
5	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
6	BAW: learning from class imbalance and noisy labels with batch adaptation weighted loss. Multimedia Tools and Applications, 2022, 81, 13593-13610.	2.6	1
7	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
8	GreenSea: Visual Soccer Analysis Using Broad Learning System. IEEE Transactions on Cybernetics, 2021, 51, 1463-1477.	6.2	47
9	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
10	Broad Colorization. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 2330-2343.	7.2	10
11	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
12	Compensating the vorticity loss during advection with an adaptive vorticity confinement force. Computer Animation and Virtual Worlds, 2021, 32, .	0.7	1
13	Multiview High Dynamic Range Image Synthesis Using Fuzzy Broad Learning System. IEEE Transactions on Cybernetics, 2021, 51, 2735-2747.	6.2	33
14	Structure-Aware Motion Deblurring Using Multi-Adversarial Optimized CycleGAN. IEEE Transactions on Image Processing, 2021, 30, 6142-6155.	6.0	29
15	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
16	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
17	AFF‐Dehazing: Attention‐based feature fusion network for low‐light image Dehazing. Computer Animation and Virtual Worlds, 2021, 32, e2011.	0.7	10
18	A deep learning system for detecting diabetic retinopathy across the disease spectrum. Nature Communications, 2021, 12, 3242.	5.8	188

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19	GPSD: generative parking spot detection using multi-clue recovery model. Visual Computer, 2021, 37, 2657-2669.	2.5	16
20	Unsupervised face super-resolution via gradient enhancement and semantic guidance. Visual Computer, 2021, 37, 2855-2867.	2.5	16
21	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
22	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
23	Multi-Stream Fusion Network for Multi-Distortion Image Super-Resolution. Lecture Notes in Computer Science, 2021, , 242-251.	1.0	0
24	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
25	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
26	Intrinsic Image Decomposition with Step and Drift Shading Separation. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 1332-1346.	2.9	21
27	Outdoor Shadow Estimating Using Multiclass Geometric Decomposition Based on BLS. IEEE Transactions on Cybernetics, 2020, 50, 2152-2165.	6.2	17
28	Depth of Field Rendering Using Multilayer-Neighborhood Optimization. IEEE Transactions on Visualization and Computer Graphics, 2020, 26, 2546-2559.	2.9	14
29	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
30	Video flickering removal using temporal reconstruction optimization. Multimedia Tools and Applications, 2020, 79, 4661-4679.	2.6	3
31	Depth-Aware Motion Deblurring Using Loopy Belief Propagation. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 955-969.	5.6	20
32	IDRiD: Diabetic Retinopathy â€" Segmentation and Grading Challenge. Medical Image Analysis, 2020, 59, 101561.	7.0	162
33	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
34	Real-time hair simulation with heptadiagonal decomposition on mass spring system. Graphical Models, 2020, 111, 101077.	1.1	8
35	Feasibility study of mitigation and suppression strategies for controlling COVID-19 outbreaks in London and Wuhan. PLoS ONE, 2020, 15, e0236857.	1.1	32
36	Simplified non-locally dense network for single-image dehazing. Visual Computer, 2020, 36, 2189-2200.	2.5	14

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37	Embedding 3D models in offline physical environments. Computer Animation and Virtual Worlds, 2020, 31, e1959.	0.7	5
38	Animating turbulent fluid with a robust and efficient high‐order advection method. Computer Animation and Virtual Worlds, 2020, 31, e1951.	0.7	2
39	Automatic Grading System for Diabetic Retinopathy Diagnosis Using Deep Learning Artificial Intelligence Software. Current Eye Research, 2020, 45, 1550-1555.	0.7	18
40	VoxRec: Hybrid Convolutional Neural Network for Active 3D Object Recognition. IEEE Access, 2020, 8, 70969-70980.	2.6	4
41	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
42	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
43	Domain-invariant interpretable fundus image quality assessment. Medical Image Analysis, 2020, 61, 101654.	7.0	53
44	FIOU Tracker: An Improved Algorithm of IOU Tracker in Video with a Lot of Background Inferences. Lecture Notes in Computer Science, 2020, , 145-156.	1.0	1
45	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
46	Gaze-Contingent Rendering in Virtual Reality. Lecture Notes in Computer Science, 2020, , 16-23.	1.0	3
47	Hierarchical Rendering System Based on Viewpoint Prediction in Virtual Reality. Lecture Notes in Computer Science, 2020, , 24-32.	1.0	2
48	Shape Mask Generator: Learning to Refine Shape Priors for Segmenting Overlapping Cervical Cytoplasms. Lecture Notes in Computer Science, 2020, , 639-649.	1.0	1
49	3D Geology Scene Exploring Base on Hand-Track Somatic Interaction. Lecture Notes in Computer Science, 2020, , 364-373.	1.0	0
50	Malocclusion Treatment Planning via PointNet Based Spatial Transformation Network. Lecture Notes in Computer Science, 2020, , 105-114.	1.0	2
51	Dynamic Shadow Rendering with Shadow Volume Optimization. Lecture Notes in Computer Science, 2020, , 96-106.	1.0	3
52	Broad-Classifier for Remote Sensing Scene Classification with Spatial and Channel-Wise Attention. Lecture Notes in Computer Science, 2020, , 267-275.	1.0	0
53	GPU-based Grass Simulation with Accurate Blade Reconstruction. Lecture Notes in Computer Science, 2020, , 288-300.	1.0	1
54	GHand: A Graph Convolution Network for 3D Hand Pose Estimation. Lecture Notes in Computer Science, 2020, , 374-381.	1.0	1

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55	Title is missing!. , 2020, 15, e0236857.		0
56	Title is missing!. , 2020, 15, e0236857.		0
57	Title is missing!. , 2020, 15, e0236857.		0
58	Title is missing!. , 2020, 15, e0236857.		0
59	Retinal Vessel Segmentation Using Minimum Spanning Superpixel Tree Detector. IEEE Transactions on Cybernetics, 2019, 49, 2707-2719.	6.2	56
60	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
61	Detect Glaucoma with Image Segmentation and Transfer Learning. , 2019, , .		0
62	SRNPD: Spatial rendering network for pencil drawing stylization. Computer Animation and Virtual Worlds, 2019, 30, e1890.	0.7	2
63	Multiview‐coherent disocclusion synthesis using connected regions optimization. Computer Animation and Virtual Worlds, 2019, 30, e1894.	0.7	0
64	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
65	Illumination-Guided Video Composition via Gradient Consistency Optimization. IEEE Transactions on Image Processing, 2019, 28, 5077-5090.	6.0	3
66	Optic Disc and Cup Segmentation Based on Enhanced SegNet. , 2019, , .		2
67	Liver Extraction Using Residual Convolution Neural Networks From Low-Dose CT Images. IEEE Transactions on Biomedical Engineering, 2019, 66, 2641-2650.	2.5	14
68	Automatic Choroid Layer Segmentation from Optical Coherence Tomography Images Using Deep Learning. Scientific Reports, 2019, 9, 3058.	1.6	53
69	Deep Neural Representation Guided Face Sketch Synthesis. IEEE Transactions on Visualization and Computer Graphics, 2019, 25, 3216-3230.	2.9	21
70	Fast and Accurate Retinal Identification System: Using Retinal Blood Vasculature Landmarks. IEEE Transactions on Industrial Informatics, 2019, 15, 4099-4110.	7.2	12
71	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
72	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

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73	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
74	Structure-preserving image completion with multi-level dynamic patches. Visual Computer, 2019, 35, 85-98.	2.5	4
75	Deep gesture interaction for augmented anatomy learning. International Journal of Information Management, 2019, 45, 328-336.	10.5	56
76	Illumination-aware live videos background replacement using antialiasing optimization. Multimedia Tools and Applications, 2018, 77, 24477-24497.	2.6	5
77	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
78	Automatic choroid layer segmentation using normalized graph cut. IET Image Processing, 2018, 12, 53-59.	1.4	5
79	Clinical Report Guided Retinal Microaneurysm Detection With Multi-Sieving Deep Learning. IEEE Transactions on Medical Imaging, 2018, 37, 1149-1161.	5.4	113
80	Fibroblast growth factor 21 increases insulin sensitivity through specific expansion of subcutaneous fat. Nature Communications, 2018, 9, 272.	5.8	119
81	Tracking soccer players using spatio-temporal context learning under multiple views. Multimedia Tools and Applications, 2018, 77, 18935-18955.	2.6	14
82	Video Decolorization Using Visual Proximity Coherence Optimization. IEEE Transactions on Cybernetics, 2018, 48, 1406-1419.	6.2	14
83	Better initialization for regression-based face alignment. Computers and Graphics, 2018, 70, 261-269.	1.4	8
84	An Interior Decoration System via Virtual Reality and Artificial Intelligence. , 2018, , .		0
85	A Novel and Efficient Hybrid Segmentation Approach for Retinal Vasculature Network. , 2018, , .		1
86	3D Simulation of Interior House Design in VR Using VR3ID Method. , 2018, , .		3
87	Antialiased super-resolution with parallel high-frequency synthesis. Multimedia Tools and Applications, 2017, 76, 543-560.	2.6	6
88	Intrinsic image estimation using near- $$L_0$$ L 0 sparse optimization. Visual Computer, 2017, 33, 355-369.	2.5	5
89	Retinal optic disc localization using convergence tracking of blood vessels. Multimedia Tools and Applications, 2017, 76, 23309-23331.	2.6	7
90	Automatic diabetic retinopathy diagnosis using adjustable ophthalmoscope and multi-scale line operator. Pervasive and Mobile Computing, 2017, 41, 490-503.	2.1	9

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91	Colorization Using Neural Network Ensemble. IEEE Transactions on Image Processing, 2017, 26, 5491-5505.	6.0	27
92	Temporal Coherence-Based Deblurring Using Non-Uniform Motion Optimization. IEEE Transactions on Image Processing, 2017, 26, 4991-5004.	6.0	7
93	Dynamic RGBâ€toâ€CMYK conversion using visual contrast optimisation. IET Image Processing, 2017, 11, 539-549.	1.4	6
94	Abdominal adipose tissues extraction using multi-scale deep neural network. Neurocomputing, 2017, 229, 23-33.	3.5	21
95	Failure Resilient Routing via IoT Networks. , 2017, , .		2
96	High Availability Evaluation Utilizing Service Level Agreement. , 2017, , .		0
97	Integrated tone and structure refinement for highâ€fidelity colour transfer. IET Image Processing, 2017, 11, 1281-1290.	1.4	0
98	Mass data storage platform for smart grid. , 2016, , .		0
99	Smart grid data mining and visualization. , 2016, , .		5
100	Load forecast of resource scheduler in cloud architecture. , 2016, , .		3
101	High-availability deployment for large enterprises. , 2016, , .		2
102	Smart grid data analysis and prediction modeling. , 2016, , .		2
103	Image saliency detection using Gabor texture cues. Multimedia Tools and Applications, 2016, 75, 16943-16958.	2.6	12
104	Accurate gaze tracking from single camera using gabor corner detector. Multimedia Tools and Applications, 2016, 75, 221-239.	2.6	14
105	Image saliency detection based on rectangular-wave spectrum analysis. Multimedia Tools and Applications, 2016, 75, 6173-6187.	2.6	0
106	Rolling Shutter Effect Compensation with Global Waves Analysis. , 2015, , .		0
107	Deep Colorization. , 2015, , .		364
108	Image-based non-photorealistic rendering for realtime virtual sculpting. Multimedia Tools and Applications, 2015, 74, 9697-9714.	2.6	12

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109	Structure-aware QR Code abstraction. Visual Computer, 2015, 31, 1123-1133.	2.5	9
110	Vessel extraction from non-fluorescein fundus images using orientation-aware detector. Medical Image Analysis, 2015, 26, 232-242.	7.0	71
111	Image anti-aliasing techniques for Internet visual media processing: a review. Journal of Zhejiang University: Science C, 2014, 15, 717-728.	0.7	4
112	Cloud computing in electric vehicles charging control and dispatch optimization. , 2014, , .		4
113	Real‐time depth‐of‐field rendering using single‐layer composition. Computer Animation and Virtual Worlds, 2014, 25, 233-241.	0.7	0
114	Video Colorization Using Parallel Optimization in Feature Space. IEEE Transactions on Circuits and Systems for Video Technology, 2014, 24, 407-417.	5.6	31
115	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
116	Sketch-based design for green geometry and image deformation. Multimedia Tools and Applications, 2013, 62, 581-599.	2.6	3
117	Temporally Coherent Video Saliency Using Regional Dynamic Contrast. IEEE Transactions on Circuits and Systems for Video Technology, 2013, 23, 2067-2076.	5.6	22
118	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
119	Facial expression mapping based on elastic and muscle-distribution-based models. , 2012, , .		1
120	A Customized Framework to Recompress Massive Internet Images. Journal of Computer Science and Technology, 2012, 27, 1129-1139.	0.9	1
121	Fast Image Correspondence with Global Structure Projection. Journal of Computer Science and Technology, 2012, 27, 1281-1288.	0.9	5
122	Image stylization with enhanced structure on GPU. Science China Information Sciences, 2012, 55, 1093-1105.	2.7	12
123	Seamlet carving for shape-aware image resizing. Science China Information Sciences, 2012, 55, 1073-1081.	2.7	3
124	Determining event ordering in mobile ad hoc networks. , 2011, , .		0
125	MCGIM-Based Model Streaming for Realtime Progressive Rendering. Journal of Computer Science and Technology, 2011, 26, 166-175.	0.9	5
126	GPU-based Motion Blending for Motion Graphs. , 2011, , .		0

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127	Differential geometry images: remeshing and morphing with local shape preservation. Visual Computer, 2010, 26, 51-62.	2.5	7
128	Furstyling on angle-split shell textures. Computer Animation and Virtual Worlds, 2009, 20, 205-213.	0.7	2
129	Lumiproxy: A Hybrid Representation of Image-Based Models. Journal of Computer Science and Technology, 2009, 24, 578-587.	0.9	0
130	Sketching freeform meshes using graph rotation functions. Visual Computer, 2008, 24, 745-752.	2.5	2