Qinghua Huang

List of Publications by Year
in descending order

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130	2,957	172457	206112
papers	citations	29 h-index	48 g-index

130	130	130	2178
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Review on Real-Time 3D Ultrasound Imaging Technology. BioMed Research International, 2017, 2017, 1-20.	1.9	172
2	Breast ultrasound image segmentation: a survey. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 493-507.	2.8	148
3	Segmentation of breast ultrasound image with semantic classification of superpixels. Medical Image Analysis, 2020, 61, 101657.	11.6	146
4	Machine Learning in Ultrasound Computer-Aided Diagnostic Systems: A Survey. BioMed Research International, 2018, 2018, 1-10.	1.9	139
5	Robotic Arm Based Automatic Ultrasound Scanning for Three-Dimensional Imaging. IEEE Transactions on Industrial Informatics, 2019, 15, 1173-1182.	11.3	130
6	On Combining Biclustering Mining and AdaBoost for Breast Tumor Classification. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 728-738.	5.7	101
7	Automatic segmentation of breast lesions for interaction in ultrasonic computer-aided diagnosis. Information Sciences, 2015, 314, 293-310.	6.9	88
8	Deep smoke segmentation. Neurocomputing, 2019, 357, 248-260.	5.9	85
9	GA-SIFT: A new scale invariant feature transform for multispectral image using geometric algebra. Information Sciences, 2014, 281, 559-572.	6.9	69
10	Fully Automatic Three-Dimensional Ultrasound Imaging Based on Conventional B-Scan. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 426-436.	4.0	69
11	Optimized graph-based segmentation for ultrasound images. Neurocomputing, 2014, 129, 216-224.	5.9	59
12	Personalized video recommendation through tripartite graph propagation. , 2012, , .		57
13	Segmentation information with attention integration for classification of breast tumor in ultrasound image. Pattern Recognition, 2022, 124, 108427.	8.1	55
14	Inferring subgroup-specific driver genes from heterogeneous cancer samples via subspace learning with subgroup indication. Bioinformatics, 2020, 36, 1855-1863.	4.1	53
15	A Wave-Shaped Deep Neural Network for Smoke Density Estimation. IEEE Transactions on Image Processing, 2020, 29, 2301-2313.	9.8	52
16	Bezier Interpolation for 3-D Freehand Ultrasound. IEEE Transactions on Human-Machine Systems, 2015, 45, 385-392.	3.5	51
17	A new adaptive interpolation algorithm for 3D ultrasound imaging with speckle reduction and edge preservation. Computerized Medical Imaging and Graphics, 2009, 33, 100-110.	5.8	48
18	Parallelized Evolutionary Learning for Detection of Biclusters in Gene Expression Data. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2012, 9, 560-570.	3.0	48

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19	Survey of Spatio-Temporal Interest Point Detection Algorithms in Video. IEEE Access, 2017, 5, 10323-10331.	4.2	44
20	Development of a Wireless and Near Real-Time 3D Ultrasound Strain Imaging System. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 394-403.	4.0	42
21	A Gated Recurrent Network With Dual Classification Assistance for Smoke Semantic Segmentation. IEEE Transactions on Image Processing, 2021, 30, 4409-4422.	9.8	42
22	Correspondence - 3-D ultrasonic strain imaging based on a linear scanning system. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 392-400.	3.0	41
23	Anatomical prior based vertebra modelling for reappearance of human spines. Neurocomputing, 2022, 500, 750-760.	5.9	41
24	A novel feature extraction method using Pyramid Histogram of Orientation Gradients for smile recognition. , 2009, , .		39
25	Graph-based learning for segmentation of 3D ultrasound images. Neurocomputing, 2015, 151, 632-644.	5.9	39
26	A Spatialâ€“Spectral Prototypical Network for Hyperspectral Remote Sensing Image. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 167-171.	3.1	38
27	Exploiting Local Coherent Patterns for Unsupervised Feature Ranking. IEEE Transactions on Systems, Man, and Cybernetics, 2011, 41, 1471-1482.	5.0	36
28	Biclustering Learning of Trading Rules. IEEE Transactions on Cybernetics, 2015, 45, 2287-2298.	9.5	35
29	Speckle suppression and contrast enhancement in reconstruction of freehand 3D ultrasound images using an adaptive distance-weighted method. Applied Acoustics, 2009, 70, 21-30.	3.3	33
30	Differential Diagnosis of Atypical Hepatocellular Carcinoma in Contrast-Enhanced Ultrasound Using Spatio-Temporal Diagnostic Semantics. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 2860-2869.	6.3	33
31	Traffic anomaly detection based on image descriptor in videos. Multimedia Tools and Applications, 2016, 75, 2487-2505.	3.9	32
32	Learning Shape-Motion Representations from Geometric Algebra Spatio-Temporal Model for Skeleton-Based Action Recognition. , 2019, , .		31
33	Sparse kernel entropy component analysis for dimensionality reduction of biomedical data. Neurocomputing, 2015, 168, 930-940.	5.9	30
34	Systematic Evaluation on Speckle Suppression Methods in Examination of Ultrasound Breast Images. Applied Sciences (Switzerland), 2017, 7, 37.	2.5	29
35	Dense Prediction and Local Fusion of Superpixels: A Framework for Breast Anatomy Segmentation in Ultrasound Image With Scarce Data. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-8.	4.7	28
36	Wireless and sensorless 3D ultrasound imaging. Neurocomputing, 2016, 195, 159-171.	5.9	27

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37	A Novel Segmentation Approach Combining Region- and Edge-Based Information for Ultrasound Images. BioMed Research International, 2017, 2017, 1-18.	1.9	27
38	Image esthetic assessment using both hand-crafting and semantic features. Neurocomputing, 2014, 143, 14-26.	5.9	24
39	Synthesized computational aesthetic evaluation of photos. Neurocomputing, 2016, 172, 244-252.	5.9	24
40	2.5-D Extended Field-of-View Ultrasound. IEEE Transactions on Medical Imaging, 2018, 37, 851-859.	8.9	24
41	Ultrasound image de-speckling by a hybrid deep network with transferred filtering and structural prior. Neurocomputing, 2020, 414, 346-355.	5.9	24
42	Personalized Video Recommendation through Graph Propagation. ACM Transactions on Multimedia Computing, Communications and Applications, 2014, 10, 1-17.	4.3	23
43	A Feedback-Based Robust Video Stabilization Method for Traffic Videos. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 561-572.	8.3	22
44	Evolutionary optimized fuzzy reasoning with mined diagnostic patterns for classification of breast tumors in ultrasound. Information Sciences, 2019, 502, 525-536.	6.9	21
45	Multi-Task/Single-Task Joint Learning of Ultrasound BI-RADS Features. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 691-701.	3.0	21
46	Fuzzy bag of words for social image description. Multimedia Tools and Applications, 2016, 75, 1371-1390.	3.9	20
47	Remote control of a robotic prosthesis arm with six-degree-of-freedom for ultrasonic scanning and three-dimensional imaging. Biomedical Signal Processing and Control, 2019, 54, 101606.	5.7	20
48	A novel visual codebook model based on fuzzy geometry for large-scale image classification. Pattern Recognition, 2015, 48, 3125-3134.	8.1	19
49	Bi-Phase Evolutionary Searching for Biclusters in Gene Expression Data. IEEE Transactions on Evolutionary Computation, 2019, 23, 803-814.	10.0	19
50	Automated Trading Point Forecasting Based on Bicluster Mining and Fuzzy Inference. IEEE Transactions on Fuzzy Systems, 2020, 28, 259-272.	9.8	19
51	Automatic 3-D Imaging and Measurement of Human Spines With a Robotic Ultrasound System. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	19
52	Feature Fusion for Diagnosis of Atypical Hepatocellular Carcinoma in Contrast- Enhanced Ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 114-123.	3.0	19
53	Knowledge tensor embedding framework with association enhancement for breast ultrasound diagnosis of limited labeled samples. Neurocomputing, 2022, 468, 60-70.	5.9	19
54	A case-oriented web-based training system for breast cancer diagnosis. Computer Methods and Programs in Biomedicine, 2018, 156, 73-83.	4.7	18

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55	Scoliotic Imaging With a Novel Double-Sweep 2.5-Dimensional Extended Field-of-View Ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2019, 66, 1304-1315.	3.0	18
56	A new breast tumor ultrasonography CAD system based on decision tree and BI-RADS features. World Wide Web, 2018, 21, 1491-1504.	4.0	17
57	Classification of liver tumors with CEUS based on 3D-CNN. , 2019, , .		17
58	Real-time freehand 3D ultrasound imaging. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2018, 6, 74-83.	1.9	16
59	Few-shot decision tree for diagnosis of ultrasound breast tumor using BI-RADS features. Multimedia Tools and Applications, 2018, 77, 29905-29918.	3.9	14
60	Anomaly detection of Logo images in the mobile phone using convolutional autoencoder. , 2017, , .		13
61	Tolerating Data Missing in Breast Cancer Diagnosis from Clinical Ultrasound Reports via Knowledge Graph Inference. , 2021, , .		13
62	Enhanced Extended-Field-of-View Ultrasound for Musculoskeletal Tissues Using Parallel Computing. Current Medical Imaging, 2015, 10, 237-245.	0.8	12
63	Real-time extended-field-of-view ultrasound based on a standard PC. Applied Acoustics, 2012, 73, 423-432.	3.3	11
64	Classification of breast tumors in ultrasound using biclustering mining and neural network. , 2016, , .		11
65	Segmentation and recognition of multi-model photo event. Neurocomputing, 2016, 172, 159-167.	5.9	11
66	Barker coded excitation with linear frequency modulated carrier for ultrasonic imaging. Biomedical Signal Processing and Control, 2014, 13, 306-312.	5.7	10
67	Two-stage local constrained sparse coding for fine-grained visual categorization. Science China Information Sciences, 2018, 61, 1.	4.3	10
68	Simultaneous Segmentation of Fetal Hearts and Lungs for Medical Ultrasound Images via an Efficient Multi-scale Model Integrated With Attention Mechanism. Ultrasonic Imaging, 2021, 43, 308-319.	2.6	10
69	Multi-scale information with attention integration for classification of liver fibrosis in B-mode US image. Computer Methods and Programs in Biomedicine, 2022, 215, 106598.	4.7	10
70	Evaluation of Pulmonary Edema Using Ultrasound Imaging in Patients With COVID-19 Pneumonia Based on a Non-local Channel Attention ResNet. Ultrasound in Medicine and Biology, 2022, 48, 945-953.	1.5	10
71	A Biclustering Technique for Mining Trading Rules in Stock Markets. Communications in Computer and Information Science, 2011, , 16-24.	0.5	8
72	A game theoretic approach for power allocation with QoS constraints in wireless multimedia sensor networks. Multimedia Tools and Applications, 2011, 51, 983-996.	3.9	8

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73	Nonlocal total variation based on symmetric Kullback-Leibler divergence for the ultrasound image despeckling. BMC Medical Imaging, 2017, 17, 57.	2.7	8
74	Coâ€occurrence matching of local binary patterns for improving visual adaption and its application to smoke recognition. IET Computer Vision, 2019, 13, 178-187.	2.0	8
75	A Graph-Based Segmentation Method for Breast Tumors in Ultrasound Images. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	7
76	A multi-objectively-optimized graph-based segmentation method for breast ultrasound image. , 2014, , .		7
77	Quantitative Ultrasound Assessment of Cartilage Degeneration in Ovariectomized Rats with Low Estrogen Levels. Ultrasound in Medicine and Biology, 2016, 42, 290-298.	1.5	7
78	Barker coded excitation using LFM carrier for improving axial resolution in ultrasound imaging. , 2013, , .		6
79	An approach based on biclustering and neural network for classification of lesions in breast ultrasound. , 2016, , .		6
80	Ultrasound elastography based on the normalized cross-correlation and the PSO algorithm. , 2017, , .		6
81	Discovery of trading points based on Bayesian modeling of trading rules. World Wide Web, 2018, 21, 1473-1490.	4.0	6
82	Measurement of Quasi-Static 3-D Knee Joint Movement Based on the Registration From CT to US. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 1141-1150.	3.0	6
83	A Computer-Aided System for Classification of Breast Tumors in Ultrasound Images via Biclustering Learning. Communications in Computer and Information Science, 2014, , 24-32.	0.5	6
84	Accurate Image Registration Using SIFT for Extended-Field-of-View Sonography. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	5
85	A Robust Gradient-Based Algorithm to Correct Bias Fields of Brain MR Images. IEEE Transactions on Autonomous Mental Development, 2015, 7, 256-264.	1.6	5
86	A Kinect-based automatic ultrasound scanning system. , 2016, , .		5
87	Quantitative Analysis of Musculoskeletal Ultrasound: Techniques and Clinical Applications. BioMed Research International, 2017, 2017, 1-2.	1.9	5
88	Extreme-constrained spatial-spectral corner detector for image-level hyperspectral image classification. Pattern Recognition Letters, 2018, 109, 110-119.	4.2	5
89	Automatic ultrasound scanning system based on robotic arm. Science China Information Sciences, 2019, 62, 1.	4.3	5
90	Determination of Temporal Stock Investment Styles via Biclustering Trading Patterns. Cognitive Computation, 2019, 11, 799-808.	5.2	5

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91	Rapid Image Registration for Extended-Field-of-View Ultrasound. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	4
92	Classification of breast ultrasound with human-rating BI-RADS scores using mined diagnostic patterns and optimized neuro-network. Neurocomputing, 2020, 417, 536-542.	5.9	4
93	An evolutionary algorithm for discovering biclusters in gene expression data of breast cancer. , 2008, , .		3
94	Robust multiâ€view representation for spatialâ€“spectral domain in application of hyperspectral image classification. IET Computer Vision, 2019, 13, 90-96.	2.0	3
95	An unsupervised feature ranking scheme by discovering biclusters. , 2009, , .		2
96	A new bag of words model based on fuzzy membership for image description. , 2014, , .		2
97	A Novel Graph-Based Segmentation Method for Breast Ultrasound Images. , 2016, , .		2
98	Bi-Phase evolutionary biclustering algorithm with the NSGA-II algorithm. , 2019, , .		2
99	Spatiotemporal interest point detector exploiting appearance and motion-variation information. Journal of Electronic Imaging, 2019, 28, 1.	0.9	2
100	Median Filters Used for Volume Reconstruction in Freehand 3-D Ultrasound. , 2005, 2005, 1826-9.		1
101	A Novel Method to Obtain Modulus Image of Soft Tissues Using Water Jet Compression. , 2005, 2006, 993-5.		1
102	Multi-Evaluation of the Healing at Bone-Tendon Junction with the Treatment of Mechanical Stimulation. , 2009, , .		1
103	Parallelism of Extended-Field-of-View Sonography based on Scale Invariant Feature Transform. , 2011, , .		1
104	Editorial (Thematic Issue: Current Research and Clinical Application of Ultrasound Imaging in) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222	0.8	1
105	The pseudo-label scheme in breast tumor classification based on BI-RADS features. , 2017, , .		1
106	A new framework of target detection in hyperspectral images. , 2017, , .		1
107	A novel method for ultrasound elastography using the mutual information and the phase information. , 2017, , .		1
108	Web-based training for radiologists of breast ultrasound. , 2017, , .		1

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109	A Superpixel-Classification-Based Method for Breast Ultrasound Images. , 2018, , .		1
110	Automatic Three-Dimensional Ultrasound Scanning System Based on RGB-D Camera. , 2018, , .		1
111	A Three-Dimensional Quasi-static Ultrasound Strain Imaging System Using A 6-DoF Robotic Arm. , 2019, , .		1
112	Real-time Interaction of a 7-DOF Robot for Teleoperated Ultrasonic Scanning. , 2021, , .		1
113	Three dimensional confocal photoacoustic dermoscopy with an autofocusing sonoâ€opto probe. Journal of Biophotonics, 2022, , e202100323.	2.3	1
114	Development of a Synchronized System for Continuous Acquisition and Analysis of Ultrasound Joint Angle, and EMG. , 2005, 2006, 989-92.		0
115	Evolutionary Discovery of Co-Movement Patterns Among Foreign Currencies. , 2009, , .		0
116	Development of an Optical Elastomicroscopy for Imaging Tissue Elasticity in High Resolution. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	0
117	Motion States Recognition System Based on Ultrasound for Automatic Door Management. , 2011, , .		0
118	A fast method for panoramic ultrasound imaging. , 2011, , .		0
119	A Kinect-based scan path planning method for ultrasound imaging. , 2014, , .		0
120	3D reconstruction of human enamel Ex vivo using high frequency ultrasound. , 2015, , .		0
121	Automated trading based on biclustering mining and fuzzy modeling. , 2016, , .		0
122	A Bayesian-adaboost model for stock trading rule discovery. , 2017, , .		0
123	CT to ultrasound registration for non-invasive kinematic analysis of knee joints. , 2017, , .		0
124	The application of BI-RADS feature in the ultrasound breast tumor CAD system. , 2017, , .		0
125	The Application of Fuzzy Reasoning and Biclustering in Ultrasound Breast Tumor Classification. , 2018, , .		0
126	Detecting Vertebra Landmarks From Ultrasound Image Using Single Shot MultiBox Detector. , 2019, , .		0

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127	Binary Classification with Supervised-like Biclustering and Adaboost. , 2020, , .		0
128	3D confocal photoacoustic dermoscopy using a multifunctional sono-opto probe. , 2021, , .		0
129	Transductive Learning for BI-RADS Knowledge Graph based on Knowledge Tensor Factorization. , 2021, , .		0
130	A Comparison Study of Direct Inference and Knowledge Compensating Generalized Inference as Multidisciplinary for Medical Knowledge Graph. , 2021, , .		0