

# Qinghua Huang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7698503/publications.pdf>

Version: 2024-02-01

130  
papers

2,957  
citations

196777

29  
h-index

232693

48  
g-index

130  
all docs

130  
docs citations

130  
times ranked

2428  
citing authors

#	ARTICLE	IF	CITATIONS
1	Feature Fusion for Diagnosis of Atypical Hepatocellular Carcinoma in Contrast- Enhanced Ultrasound. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 114-123.	1.7	19
2	Knowledge tensor embedding framework with association enhancement for breast ultrasound diagnosis of limited labeled samples. Neurocomputing, 2022, 468, 60-70.	3.5	19
3	Segmentation information with attention integration for classification of breast tumor in ultrasound image. Pattern Recognition, 2022, 124, 108427.	5.1	55
4	Multi-Task/Single-Task Joint Learning of Ultrasound BI-RADS Features. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2022, 69, 691-701.	1.7	21
5	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.	2.6	10
6	Three dimensional confocal photoacoustic dermoscopy with an autofocusing sono-opto probe. Journal of Biophotonics, 2022, , e202100323.	1.1	1
7	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.	0.7	10
8	Anatomical prior based vertebra modelling for reappearance of human spines. Neurocomputing, 2022, 500, 750-760.	3.5	41
9	Automatic 3-D Imaging and Measurement of Human Spines With a Robotic Ultrasound System. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	2.4	19
10	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.	2.4	28
11	Real-time Interaction of a 7-DOF Robot for Teleoperated Ultrasonic Scanning. , 2021, , .		1
12	Tolerating Data Missing in Breast Cancer Diagnosis from Clinical Ultrasound Reports via Knowledge Graph Inference. , 2021, , .		13
13	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.	1.4	10
14	A Gated Recurrent Network With Dual Classification Assistance for Smoke Semantic Segmentation. IEEE Transactions on Image Processing, 2021, 30, 4409-4422.	6.0	42
15	3D confocal photoacoustic dermoscopy using a multifunctional sono-opto probe. , 2021, , .		0
16	Transductive Learning for BI-RADS Knowledge Graph based on Knowledge Tensor Factorization. , 2021, , .		0
17	A Comparison Study of Direct Inference and Knowledge Compensating Generalized Inference as Multidisciplinary for Medical Knowledge Graph. , 2021, , .		0
18	Inferring subgroup-specific driver genes from heterogeneous cancer samples via subspace learning with subgroup indication. Bioinformatics, 2020, 36, 1855-1863.	1.8	53

#	ARTICLE	IF	CITATIONS
19	On Combining Biclustering Mining and AdaBoost for Breast Tumor Classification. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 728-738.	4.0	101
20	Automated Trading Point Forecasting Based on Bicluster Mining and Fuzzy Inference. IEEE Transactions on Fuzzy Systems, 2020, 28, 259-272.	6.5	19
21	A Spatialâ€“Spectral Prototypical Network for Hyperspectral Remote Sensing Image. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 167-171.	1.4	38
22	A Wave-Shaped Deep Neural Network for Smoke Density Estimation. IEEE Transactions on Image Processing, 2020, 29, 2301-2313.	6.0	52
23	Classification of breast ultrasound with human-rating BI-RADS scores using mined diagnostic patterns and optimized neuro-network. Neurocomputing, 2020, 417, 536-542.	3.5	4
24	Ultrasound image de-speckling by a hybrid deep network with transferred filtering and structural prior. Neurocomputing, 2020, 414, 346-355.	3.5	24
25	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.	3.9	33
26	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.	1.7	6
27	Segmentation of breast ultrasound image with semantic classification of superpixels. Medical Image Analysis, 2020, 61, 101657.	7.0	146
28	Binary Classification with Supervised-like Biclustering and Adaboost. , 2020, , .		0
29	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.	3.5	20
30	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.	1.7	18
31	Evolutionary optimized fuzzy reasoning with mined diagnostic patterns for classification of breast tumors in ultrasound. Information Sciences, 2019, 502, 525-536.	4.0	21
32	A Three-Dimensional Quasi-static Ultrasound Strain Imaging System Using A 6-DoF Robotic Arm. , 2019, , .		1
33	Classification of liver tumors with CEUS based on 3D-CNN. , 2019, , .		17
34	Learning Shape-Motion Representations from Geometric Algebra Spatio-Temporal Model for Skeleton-Based Action Recognition. , 2019, , .		31
35	Deep smoke segmentation. Neurocomputing, 2019, 357, 248-260.	3.5	85
36	Robust multiâ€“view representation for spatialâ€“spectral domain in application of hyperspectral image classification. IET Computer Vision, 2019, 13, 90-96.	1.3	3

#	ARTICLE	IF	CITATIONS
37	Automatic ultrasound scanning system based on robotic arm. Science China Information Sciences, 2019, 62, 1.	2.7	5
38	Determination of Temporal Stock Investment Styles via Biclustering Trading Patterns. Cognitive Computation, 2019, 11, 799-808.	3.6	5
39	Co-occurrence matching of local binary patterns for improving visual adaption and its application to smoke recognition. IET Computer Vision, 2019, 13, 178-187.	1.3	8
40	Detecting Vertebra Landmarks From Ultrasound Image Using Single Shot MultiBox Detector. , 2019, , .		0
41	Bi-Phase evolutionary biclustering algorithm with the NSGA-II algorithm. , 2019, , .		2
42	Robotic Arm Based Automatic Ultrasound Scanning for Three-Dimensional Imaging. IEEE Transactions on Industrial Informatics, 2019, 15, 1173-1182.	7.2	130
43	Bi-Phase Evolutionary Searching for Biclusters in Gene Expression Data. IEEE Transactions on Evolutionary Computation, 2019, 23, 803-814.	7.5	19
44	Spatiotemporal interest point detector exploiting appearance and motion-variation information. Journal of Electronic Imaging, 2019, 28, 1.	0.5	2
45	Discovery of trading points based on Bayesian modeling of trading rules. World Wide Web, 2018, 21, 1473-1490.	2.7	6
46	2.5-D Extended Field-of-View Ultrasound. IEEE Transactions on Medical Imaging, 2018, 37, 851-859.	5.4	24
47	Fully Automatic Three-Dimensional Ultrasound Imaging Based on Conventional B-Scan. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 426-436.	2.7	69
48	A case-oriented web-based training system for breast cancer diagnosis. Computer Methods and Programs in Biomedicine, 2018, 156, 73-83.	2.6	18
49	Few-shot decision tree for diagnosis of ultrasound breast tumor using BI-RADS features. Multimedia Tools and Applications, 2018, 77, 29905-29918.	2.6	14
50	Extreme-constrained spatial-spectral corner detector for image-level hyperspectral image classification. Pattern Recognition Letters, 2018, 109, 110-119.	2.6	5
51	Real-time freehand 3D ultrasound imaging. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2018, 6, 74-83.	1.3	16
52	A Feedback-Based Robust Video Stabilization Method for Traffic Videos. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 561-572.	5.6	22
53	Two-stage local constrained sparse coding for fine-grained visual categorization. Science China Information Sciences, 2018, 61, 1.	2.7	10
54	A Superpixel-Classification-Based Method for Breast Ultrasound Images. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
55	The Application of Fuzzy Reasoning and Biclustering in Ultrasound Breast Tumor Classification. , 2018, , .		0
56	A new breast tumor ultrasonography CAD system based on decision tree and BI-RADS features. World Wide Web, 2018, 21, 1491-1504.	2.7	17
57	Machine Learning in Ultrasound Computer-Aided Diagnostic Systems: A Survey. BioMed Research International, 2018, 2018, 1-10.	0.9	139
58	Automatic Three-Dimensional Ultrasound Scanning System Based on RGB-D Camera. , 2018, , .		1
59	Breast ultrasound image segmentation: a survey. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 493-507.	1.7	148
60	Survey of Spatio-Temporal Interest Point Detection Algorithms in Video. IEEE Access, 2017, 5, 10323-10331.	2.6	44
61	The pseudo-label scheme in breast tumor classification based on BI-RADS features. , 2017, , .		1
62	A Bayesian-adaboost model for stock trading rule discovery. , 2017, , .		0
63	A new framework of target detection in hyperspectral images. , 2017, , .		1
64	A novel method for ultrasound elastography using the mutual information and the phase information. , 2017, , .		1
65	Ultrasound elastography based on the normalized cross-correlation and the PSO algorithm. , 2017, , .		6
66	Web-based training for radiologists of breast ultrasound. , 2017, , .		1
67	Anomaly detection of Logo images in the mobile phone using convolutional autoencoder. , 2017, , .		13
68	CT to ultrasound registration for non-invasive kinematic analysis of knee joints. , 2017, , .		0
69	Systematic Evaluation on Speckle Suppression Methods in Examination of Ultrasound Breast Images. Applied Sciences (Switzerland), 2017, 7, 37.	1.3	29
70	A Novel Segmentation Approach Combining Region- and Edge-Based Information for Ultrasound Images. BioMed Research International, 2017, 2017, 1-18.	0.9	27
71	Quantitative Analysis of Musculoskeletal Ultrasound: Techniques and Clinical Applications. BioMed Research International, 2017, 2017, 1-2.	0.9	5
72	A Review on Real-Time 3D Ultrasound Imaging Technology. BioMed Research International, 2017, 2017, 1-20.	0.9	172

#	ARTICLE	IF	CITATIONS
73	Nonlocal total variation based on symmetric Kullback-Leibler divergence for the ultrasound image despeckling. BMC Medical Imaging, 2017, 17, 57.	1.4	8
74	The application of BI-RADS feature in the ultrasound breast tumor CAD system. , 2017, , .		0
75	Fuzzy bag of words for social image description. Multimedia Tools and Applications, 2016, 75, 1371-1390.	2.6	20
76	Classification of breast tumors in ultrasound using biclustering mining and neural network. , 2016, , .		11
77	A Novel Graph-Based Segmentation Method for Breast Ultrasound Images. , 2016, , .		2
78	Segmentation and recognition of multi-model photo event. Neurocomputing, 2016, 172, 159-167.	3.5	11
79	A Kinect-based automatic ultrasound scanning system. , 2016, , .		5
80	Automated trading based on biclustering mining and fuzzy modeling. , 2016, , .		0
81	An approach based on biclustering and neural network for classification of lesions in breast ultrasound. , 2016, , .		6
82	Wireless and sensorless 3D ultrasound imaging. Neurocomputing, 2016, 195, 159-171.	3.5	27
83	Quantitative Ultrasound Assessment of Cartilage Degeneration in Ovariectomized Rats with Low Estrogen Levels. Ultrasound in Medicine and Biology, 2016, 42, 290-298.	0.7	7
84	Development of a Wireless and Near Real-Time 3D Ultrasound Strain Imaging System. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 394-403.	2.7	42
85	Synthesized computational aesthetic evaluation of photos. Neurocomputing, 2016, 172, 244-252.	3.5	24
86	Traffic anomaly detection based on image descriptor in videos. Multimedia Tools and Applications, 2016, 75, 2487-2505.	2.6	32
87	3D reconstruction of human enamel Ex vivo using high frequency ultrasound. , 2015, , .		0
88	Editorial (Thematic Issue: Current Research and Clinical Application of Ultrasound Imaging in) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142	0.4	1
89	Sparse kernel entropy component analysis for dimensionality reduction of biomedical data. Neurocomputing, 2015, 168, 930-940.	3.5	30
90	A novel visual codebook model based on fuzzy geometry for large-scale image classification. Pattern Recognition, 2015, 48, 3125-3134.	5.1	19

#	ARTICLE	IF	CITATIONS
91	Correspondence - 3-D ultrasonic strain imaging based on a linear scanning system. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2015, 62, 392-400.	1.7	41
92	A Robust Gradient-Based Algorithm to Correct Bias Fields of Brain MR Images. IEEE Transactions on Autonomous Mental Development, 2015, 7, 256-264.	2.3	5
93	Bezier Interpolation for 3-D Freehand Ultrasound. IEEE Transactions on Human-Machine Systems, 2015, 45, 385-392.	2.5	51
94	Biclustering Learning of Trading Rules. IEEE Transactions on Cybernetics, 2015, 45, 2287-2298.	6.2	35
95	Graph-based learning for segmentation of 3D ultrasound images. Neurocomputing, 2015, 151, 632-644.	3.5	39
96	Automatic segmentation of breast lesions for interaction in ultrasonic computer-aided diagnosis. Information Sciences, 2015, 314, 293-310.	4.0	88
97	Enhanced Extended-Field-of-View Ultrasound for Musculoskeletal Tissues Using Parallel Computing. Current Medical Imaging, 2015, 10, 237-245.	0.4	12
98	A multi-objectively-optimized graph-based segmentation method for breast ultrasound image. , 2014, , .		7
99	A new bag of words model based on fuzzy membership for image description. , 2014, , .		2
100	A Kinect-based scan path planning method for ultrasound imaging. , 2014, , .		0
101	Barker coded excitation with linear frequency modulated carrier for ultrasonic imaging. Biomedical Signal Processing and Control, 2014, 13, 306-312.	3.5	10
102	Personalized Video Recommendation through Graph Propagation. ACM Transactions on Multimedia Computing, Communications and Applications, 2014, 10, 1-17.	3.0	23
103	Optimized graph-based segmentation for ultrasound images. Neurocomputing, 2014, 129, 216-224.	3.5	59
104	Image esthetic assessment using both hand-crafting and semantic features. Neurocomputing, 2014, 143, 14-26.	3.5	24
105	GA-SIFT: A new scale invariant feature transform for multispectral image using geometric algebra. Information Sciences, 2014, 281, 559-572.	4.0	69
106	A Computer-Aided System for Classification of Breast Tumors in Ultrasound Images via Biclustering Learning. Communications in Computer and Information Science, 2014, , 24-32.	0.4	6
107	Barker coded excitation using LFM carrier for improving axial resolution in ultrasound imaging. , 2013, , .		6
108	Personalized video recommendation through tripartite graph propagation. , 2012, , .		57

#	ARTICLE	IF	CITATIONS
109	Parallelized Evolutionary Learning for Detection of Biclusters in Gene Expression Data. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2012, 9, 560-570.	1.9	48
110	Real-time extended-field-of-view ultrasound based on a standard PC. Applied Acoustics, 2012, 73, 423-432.	1.7	11
111	Motion States Recognition System Based on Ultrasound for Automatic Door Management. , 2011, , .		0
112	A Biclustering Technique for Mining Trading Rules in Stock Markets. Communications in Computer and Information Science, 2011, , 16-24.	0.4	8
113	Parallelism of Extended-Field-of-View Sonography based on Scale Invariant Feature Transform. , 2011, , .		1
114	Exploiting Local Coherent Patterns for Unsupervised Feature Ranking. IEEE Transactions on Systems, Man, and Cybernetics, 2011, 41, 1471-1482.	5.5	36
115	A game theoretic approach for power allocation with QoS constraints in wireless multimedia sensor networks. Multimedia Tools and Applications, 2011, 51, 983-996.	2.6	8
116	A fast method for panoramic ultrasound imaging. , 2011, , .		0
117	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
118	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
119	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
120	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
121	An unsupervised feature ranking scheme by discovering biclusters. , 2009, , .		2
122	Multi-Evaluation of the Healing at Bone-Tendon Junction with the Treatment of Mechanical Stimulation. , 2009, , .		1
123	Evolutionary Discovery of Co-Movement Patterns Among Foreign Currencies. , 2009, , .		0
124	A new adaptive interpolation algorithm for 3D ultrasound imaging with speckle reduction and edge preservation. Computerized Medical Imaging and Graphics, 2009, 33, 100-110.	3.5	48
125	Speckle suppression and contrast enhancement in reconstruction of freehand 3D ultrasound images using an adaptive distance-weighted method. Applied Acoustics, 2009, 70, 21-30.	1.7	33
126	A novel feature extraction method using Pyramid Histogram of Orientation Gradients for smile recognition. , 2009, , .		39



#	ARTICLE	IF	CITATIONS
127	An evolutionary algorithm for discovering biclusters in gene expression data of breast cancer. , 2008, , .		3
128	Median Filters Used for Volume Reconstruction in Freehand 3-D Ultrasound. , 2005, 2005, 1826-9.		1
129	Development of a Synchronized System for Continuous Acquisition and Analysis of Ultrasound Joint Angle, and EMG. , 2005, 2006, 989-92.		0
130	A Novel Method to Obtain Modulus Image of Soft Tissues Using Water Jet Compression. , 2005, 2006, 993-5.		1