

# Kuanquan Wang

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

127  
papers

2,216  
citations

24  
h-index

43  
g-index

175  
ext. papers

2,875  
ext. citations

4.2  
avg, IF

5.57  
L-index

#	Paper	IF	Citations
127	Fisherpalms based palmprint recognition. <i>Pattern Recognition Letters</i> , <b>2003</b> , 24, 2829-2838	4.7	300
126	Detecting atrial fibrillation by deep convolutional neural networks. <i>Computers in Biology and Medicine</i> , <b>2018</b> , 93, 84-92	7	152
125	Computerized tongue diagnosis based on Bayesian networks. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2004</b> , 51, 1803-10	5	113
124	Palm line extraction and matching for personal authentication. <i>IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans</i> , <b>2006</b> , 36, 978-987		96
123	Concatenated and Connected Random Forests With Multiscale Patch Driven Active Contour Model for Automated Brain Tumor Segmentation of MR Images. <i>IEEE Transactions on Medical Imaging</i> , <b>2018</b> , 37, 1943-1954	11.7	81
122	Multimodal Biometric Authentication Systems Using Convolution Neural Network Based on Different Level Fusion of ECG and Fingerprint. <i>IEEE Access</i> , <b>2019</b> , 7, 26527-26542	3.5	79
121	Bidirectional PCA with assembled matrix distance metric for image recognition. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2006</b> , 36, 863-72		75
120	Detection of abnormal heart conditions based on characteristics of ECG signals. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2018</b> , 125, 634-644	4.6	73
119	On kernel difference-weighted k-nearest neighbor classification. <i>Pattern Analysis and Applications</i> , <b>2008</b> , 11, 247-257	2.3	68
118	. <i>IEEE Access</i> , <b>2019</b> , 7, 102119-102135	3.5	53
117	Automatic Detection of Atrial Fibrillation Based on Continuous Wavelet Transform and 2D Convolutional Neural Networks. <i>Frontiers in Physiology</i> , <b>2018</b> , 9, 1206	4.6	50
116	A novel two-dimensional ECG feature extraction and classification algorithm based on convolution neural network for human authentication. <i>Future Generation Computer Systems</i> , <b>2019</b> , 101, 180-196	7.5	49
115	Parallel score fusion of ECG and fingerprint for human authentication based on convolution neural network. <i>Computers and Security</i> , <b>2019</b> , 81, 107-122	4.9	45
114	Multi-Depth Fusion Network for Whole-Heart CT Image Segmentation. <i>IEEE Access</i> , <b>2019</b> , 7, 23421-23429	3.5	43
113	Multi-Views Fusion CNN for Left Ventricular Volumes Estimation on Cardiac MR Images. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2018</b> , 65, 1924-1934	5	40
112	A Novel Cryptosystem Based on Iris Key Generation <b>2008</b> ,		40
111	ResNet-Attention model for human authentication using ECG signals. <i>Expert Systems</i> , <b>2020</b> , 38, e12547	2.1	39

110	Very deep feature extraction and fusion for arrhythmias detection. <i>Neural Computing and Applications</i> , <b>2018</b> , 30, 2047-2057	4.8	39
109	A global benchmark of algorithms for segmenting the left atrium from late gadolinium-enhanced cardiac magnetic resonance imaging. <i>Medical Image Analysis</i> , <b>2021</b> , 67, 101832	15.4	30
108	Cancelable biometric authentication system based on ECG. <i>Multimedia Tools and Applications</i> , <b>2019</b> , 78, 1857-1887	2.5	29
107	A cryptosystem based on palmprint feature <b>2008</b> ,		28
106	An Iris Cryptosystem for Information Security <b>2008</b> ,		26
105	Palmprint Texture Analysis Using Derivative of Gaussian Filters <b>2006</b> ,		26
104	Multiscale competitive code for efficient palmprint recognition <b>2008</b> ,		25
103	The virtual heart as a platform for screening drug cardiotoxicity. <i>British Journal of Pharmacology</i> , <b>2015</b> , 172, 5531-47	8.6	23
102	Deep Atlas Network for Efficient 3D Left Ventricle Segmentation on Echocardiography. <i>Medical Image Analysis</i> , <b>2020</b> , 61, 101638	15.4	21
101	Post-processed LDA for face and palmprint recognition: What is the rationale. <i>Signal Processing</i> , <b>2010</b> , 90, 2344-2352	4.4	20
100	A snake-based approach to automated segmentation of tongue image using polar edge detector. <i>International Journal of Imaging Systems and Technology</i> , <b>2006</b> , 16, 103-112	2.5	19
99	Fusion of phase and orientation information for palmprint authentication. <i>Pattern Analysis and Applications</i> , <b>2006</b> , 9, 103-111	2.3	19
98	A novel method for the detection of R-peaks in ECG based on K-Nearest Neighbors and Particle Swarm Optimization. <i>Eurasip Journal on Advances in Signal Processing</i> , <b>2017</b> , 2017,	1.9	18
97	A graph-based method for fitting planar B-spline curves with intersections. <i>Journal of Computational Design and Engineering</i> , <b>2016</b> , 3, 14-23	4.6	17
96	Computational Cardiac Modeling Reveals Mechanisms of Ventricular Arrhythmogenesis in Long QT Syndrome Type 8: R858H Mutation Linked to Ventricular Fibrillation. <i>Frontiers in Physiology</i> , <b>2017</b> , 8, 771	4.6	16
95	Online signature verification based on null component analysis and principal component analysis. <i>Pattern Analysis and Applications</i> , <b>2006</b> , 8, 345-356	2.3	16
94	Sample pair based sparse representation classification for face recognition. <i>Expert Systems With Applications</i> , <b>2016</b> , 45, 352-358	7.8	15
93	Computerized feature quantification of sublingual veins from color sublingual images. <i>Computer Methods and Programs in Biomedicine</i> , <b>2009</b> , 93, 192-205	6.9	15

92	Generating electrocardiogram signals by deep learning. <i>Neurocomputing</i> , <b>2020</b> , 404, 122-136	5.4	15
91	Detail-Preserving and Content-Aware Variational Multi-View Stereo Reconstruction. <i>IEEE Transactions on Image Processing</i> , <b>2016</b> , 25, 864-77	8.7	14
90	Iris-based medical analysis by geometric deformation features. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2013</b> , 17, 223-31	7.2	14
89	A universal texture segmentation and representation scheme based on ant colony optimization for iris image processing. <i>Computers and Mathematics With Applications</i> , <b>2009</b> , 57, 1862-1868	2.7	14
88	A Combined Fully Convolutional Networks and Deformable Model for Automatic Left Ventricle Segmentation Based on 3D Echocardiography. <i>BioMed Research International</i> , <b>2018</b> , 2018, 5682365	3	14
87	Parallel Optimization of 3D Cardiac Electrophysiological Model Using GPU. <i>Computational and Mathematical Methods in Medicine</i> , <b>2015</b> , 2015, 862735	2.8	12
86	A Novel Biometric System Based on Hand Vein <b>2010</b> ,		12
85	A performance evaluation of filter design and coding schemes for palmprint recognition <b>2008</b> ,		12
84	VoxelAtlasGAN: 3D Left Ventricle Segmentation on Echocardiography with Atlas Guided Generation and Voxel-to-Voxel Discrimination. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 622-629	0.9	12
83	Commensal correlation network between segmentation and direct area estimation for bi-ventricle quantification. <i>Medical Image Analysis</i> , <b>2020</b> , 59, 101591	15.4	12
82	Quick detection of QRS complexes and R-waves using a wavelet transform and K-means clustering. <i>Bio-Medical Materials and Engineering</i> , <b>2015</b> , 26 Suppl 1, S1059-65	1	11
81	Fingerprint classification based on a Q-Gaussian multiclass support vector machine <b>2017</b> ,		9
80	Neuron anatomy structure reconstruction based on a sliding filter. <i>BMC Bioinformatics</i> , <b>2015</b> , 16, 342	3.6	9
79	Reducing false arrhythmia alarms in the ICU using novel signal quality indices assessment method <b>2015</b> ,		9
78	Iris localization: Detecting accurate pupil contour and localizing limbus boundary <b>2010</b> ,		9
77	In silico assessment of the effects of quinidine, disopyramide and E-4031 on short QT syndrome variant 1 in the human ventricles. <i>PLoS ONE</i> , <b>2017</b> , 12, e0179515	3.7	9
76	Multi-step Cascaded Networks for Brain Tumor Segmentation. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 163-173	0.9	9
75	Improved greedy snake model for detecting accurate pupil contour <b>2011</b> ,		8

74	Automatic Detection of QRS Complexes Using Dual Channels Based on U-Net and Bidirectional Long Short-Term Memory. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2021</b> , 25, 1052-1061	7.2	8
73	Effects of maximal sodium and potassium conductance on the stability of Hodgkin-Huxley model. <i>Computational and Mathematical Methods in Medicine</i> , <b>2014</b> , 2014, 761907	2.8	7
72	Modelling the effects of chloroquine on -linked short QT syndrome. <i>Oncotarget</i> , <b>2017</b> , 8, 106511-106526	3.3	7
71	Effects of amiodarone on short QT syndrome variant 3 in human ventricles: a simulation study. <i>BioMedical Engineering OnLine</i> , <b>2017</b> , 16, 69	4.1	6
70	Multi-view stereo via depth map fusion: A coordinate decent optimization method. <i>Neurocomputing</i> , <b>2016</b> , 178, 46-61	5.4	6
69	Illustrative Cardiac Visualization via Perception-Based Lighting Enhancement. <i>Journal of Medical Imaging and Health Informatics</i> , <b>2014</b> , 4, 312-316	1.2	6
68	An Automatic Cardiac Segmentation Framework Based on Multi-sequence MR Image. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 220-227	0.9	6
67	A Mathematical Model of the Mouse Atrial Myocyte With Inter-Atrial Electrophysiological Heterogeneity. <i>Frontiers in Physiology</i> , <b>2020</b> , 11, 972	4.6	6
66	How can a sparse representation be made applicable for very low-dimensional data?. <i>Expert Systems With Applications</i> , <b>2017</b> , 77, 66-70	7.8	5
65	An efficient and fast GPU-based algorithm for visualizing large volume of 4D data from virtual heart simulations. <i>Biomedical Signal Processing and Control</i> , <b>2017</b> , 35, 8-18	4.9	5
64	Mechanism underlying impaired cardiac pacemaking rhythm during ischemia: A simulation study. <i>Chaos</i> , <b>2017</b> , 27, 093934	3.3	5
63	EFFECTS OF ACUTE GLOBAL ISCHEMIA ON RE-ENTRANT ARRHYTHMOGENESIS: A SIMULATION STUDY. <i>Journal of Biological Systems</i> , <b>2015</b> , 23, 213-230	1.6	5
62	Influence of the distribution of fibrosis within an area of myocardial infarction on wave propagation in ventricular tissue. <i>Scientific Reports</i> , <b>2019</b> , 9, 14151	4.9	5
61	Multi-boundary cardiac data visualization based on multidimensional transfer function with ray distance. <i>Bio-Medical Materials and Engineering</i> , <b>2014</b> , 24, 3025-32	1	5
60	Dynamically constructed network with error correction for accurate ventricle volume estimation. <i>Medical Image Analysis</i> , <b>2020</b> , 64, 101723	15.4	5
59	A robust statistics driven volume-scalable active contour for segmenting anatomical structures in volumetric medical images with complex conditions. <i>BioMedical Engineering OnLine</i> , <b>2016</b> , 15, 39	4.1	5
58	Improving Whole-Heart CT Image Segmentation by Attention Mechanism. <i>IEEE Access</i> , <b>2020</b> , 8, 14579-14587	3.9	4
57	Combination of linear regression classification and collaborative representation classification. <i>Neural Computing and Applications</i> , <b>2014</b> , 25, 833-838	4.8	4

56	A pipeline for neuron reconstruction based on spatial sliding volume filter seeding. <i>Computational and Mathematical Methods in Medicine</i> , <b>2014</b> , 2014, 386974	2.8	4
55	A New Approach to Separate Haemodynamic Signals for Brain-Computer Interface Using Independent Component Analysis and Least Squares. <i>Journal of Spectroscopy</i> , <b>2013</b> , 2013, 1-9	1.5	4
54	A novel approach of palm-line extraction		4
53	Regularization of LDA for Face Recognition: A Post-processing Approach. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 377-391	0.9	4
52	MULTISCALE WAVELET TEXTURE BASED IRIS VERIFICATION <b>2003</b> ,		4
51	Cardiac left ventricular volumes prediction method based on atlas location and deep learning <b>2016</b> ,		4
50	Computational Analysis of the Action of Chloroquine on Short QT Syndrome Variant 1 and Variant 3 in Human Ventricles. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2018</b> , 2018, 5462-5465	0.9	4
49	Multiview stereo and silhouette fusion via minimizing generalized reprojection error. <i>Image and Vision Computing</i> , <b>2015</b> , 33, 1-14	3.7	3
48	A Combined Random Forests and Active Contour Model Approach for Fully Automatic Segmentation of the Left Atrium in Volumetric MRI. <i>BioMed Research International</i> , <b>2017</b> , 2017, 8381094 <sup>3</sup>		3
47	Weighted Nuclear Norm Minimization Based Tongue Specular Reflection Removal. <i>Mathematical Problems in Engineering</i> , <b>2015</b> , 2015, 1-15	1.1	3
46	Hilbert-Huang Transform Based Doppler Blood Flow Signals Analysis <b>2009</b> ,		3
45	Distortion correction in wide-angle images for picture-based food portion size estimation <b>2012</b> ,		3
44	A Novel Cryptographic Algorithm Based on Iris Feature <b>2008</b> ,		3
43	Parameter by Parameter Algorithm for Multilayer Perceptrons. <i>Neural Processing Letters</i> , <b>2006</b> , 23, 229-242	2.4	3
42	Pacemaker Created in Human Ventricle by Depressing Inward-Rectifier K <sup>+</sup> Current: A Simulation Study. <i>BioMed Research International</i> , <b>2016</b> , 2016, 3830682	3	3
41	A Visualization System for Interactive Exploration of the Cardiac Anatomy. <i>Journal of Medical Systems</i> , <b>2016</b> , 40, 135	5.1	3
40	Transformer Network for Significant Stenosis Detection in CCTA of Coronary Arteries. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 516-525	0.9	3
39	A composite visualization method for electrophysiology-morphous merging of human heart. <i>BioMedical Engineering OnLine</i> , <b>2017</b> , 16, 70	4.1	2

38	Fusion visualization for cardiac anatomical and ischemic models with depth weighted optic radiation function <b>2015</b> ,		2
37	A fast and efficient nearest neighbor method for protein secondary structure prediction <b>2011</b> ,		2
36	Effective transfer function for interactive visualization and multivariate volume data <b>2011</b> ,		2
35	A Novel Contactless Multimodal Biometric System Based on Multiple Hand Features <b>2011</b> ,		2
34	Real-time interactive heart illustration platform via hardware accelerated rendering <b>2011</b> ,		2
33	A cell counting method for BEVS based on nonlinear Transformed Sliding Band Filter. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2012</b> , 2012, 118-21	0.9	2
32	A Feature Extraction Method for Recognition of Petechia Dot in Tongue Image <b>2009</b> ,		2
31	A Bilingual Teaching Modal in a Programing Language Course <b>2009</b> ,		2
30	Biomedical Image Processing: A Cross-Discipline Course for Undergraduate Computer Science and Technology Major <b>2008</b> ,		2
29	Theoretical Investigation on Post-Processed LDA for Face and Palmprint Recognition <b>2007</b> ,		2
28	Fusion of phase and orientation information for palmprint authentication <b>2005</b> ,		2
27	Combination of polar edge detection and active contour model for automated tongue segmentation		2
26	Approximate entropy based pulse variability analysis		2
25	Post-processing on LDA-Discriminant Vectors for Facial Feature Extraction. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 346-354	0.9	2
24	Branch-Aware Double DQN for Centerline Extraction in Coronary CT Angiography. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 35-44	0.9	2
23	The Role of CaMKII Overexpression and Oxidation in Atrial Fibrillation-A Simulation Study. <i>Frontiers in Physiology</i> , <b>2020</b> , 11, 607809	4.6	2
22	Depth Attenuation Degree Based Visualization for Cardiac Ischemic Electrophysiological Feature Exploration. <i>BioMed Research International</i> , <b>2016</b> , 2016, 2979081	3	2
21	Evoked Hemodynamic Response Estimation to Auditory Stimulus Using Recursive Least Squares Adaptive Filtering with Multidistance Measurement of Near-Infrared Spectroscopy. <i>Journal of Healthcare Engineering</i> , <b>2018</b> , 2018, 7609713	3.7	2

20	Precise Pupil Boundary Detection Using Angular Integral Projection and Active Contour Model <b>2018</b> ,		1
19	Effects of amiodarone on ventricular excitation associated with the KCNJ2-linked short QT syndrome: Insights from a modelling study <b>2015</b> ,		1
18	Simulation of effects of TBX18 on the pacemaker activity of human ventricular cells <b>2015</b> ,		1
17	Heart visualization based on hybrid transfer function using size and gradient. <i>Bio-Medical Materials and Engineering</i> , <b>2014</b> , 24, 3353-9	1	1
16	Fast neighbourhood component analysis with spatially smooth regulariser for robust noisy face recognition. <i>IET Biometrics</i> , <b>2014</b> , 3, 278-290	2.9	1
15	Bright field microscopic cells counting method for BEVS using nonlinear convergence index sliding band filter. <i>BioMedical Engineering OnLine</i> , <b>2014</b> , 13, 147	4.1	1
14	ONLINE SIGNATURE VERIFICATION BY COMBINING SHAPE CONTEXTS AND LOCAL FEATURES. <i>International Journal of Image and Graphics</i> , <b>2006</b> , 06, 407-420	0.5	1
13	Bi-directional PCA with assembled matrix distance metric <b>2005</b> ,		1
12	Modern researches on pulse waveform of TCPD		1
11	Heart failure-induced atrial remodelling promotes electrical and conduction alternans. <i>PLoS Computational Biology</i> , <b>2020</b> , 16, e1008048	5	1
10	Biological pacemaker: from biological experiments to computational simulation. <i>Journal of Zhejiang University: Science B</i> , <b>2020</b> , 21, 524-536	4.5	1
9	Alternans in Mouse Atrial Cardiomyocytes: A Computational Study on the Influence of Cell-Cell Coupling and Adrenergic Stimulation. <i>IEEE Access</i> , <b>2020</b> , 8, 84806-84820	3.5	1
8	A Simulation Study on the Pacing and Driving of the Biological Pacemaker. <i>BioMed Research International</i> , <b>2020</b> , 2020, 4803172	3	1
7	Reciprocal interaction between IK1 and If in biological pacemakers: A simulation study. <i>PLoS Computational Biology</i> , <b>2021</b> , 17, e1008177	5	0
6	Effects of long-term fasting and confinement on the cardiovascular activity. <i>Medical and Biological Engineering and Computing</i> , <b>2021</b> , 59, 1901-1915	3.1	0
5	The Functional Role of Hyperpolarization Activated Current ( ) on Cardiac Pacemaking in Human vs. in the Rabbit Sinoatrial Node: A Simulation and Theoretical Study. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 582037	4.6	0
4	Generalizable Beat-by-Beat Arrhythmia Detection by Using Weakly Supervised Deep Learning.. <i>Frontiers in Physiology</i> , <b>2022</b> , 13, 850951	4.6	0
3	Inter-subject registration-based one-shot segmentation with alternating union network for cardiac MRI images.. <i>Medical Image Analysis</i> , <b>2022</b> , 79, 102455	15.4	0



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|---|--|---|---|
| 2 | Mechanisms of ventricular arrhythmias elicited by coexistence of multiple electrophysiological remodeling in ischemia: A simulation study.. <i>PLoS Computational Biology</i> , <b>2022</b> , 18, e1009388 | 5 | 0 |
| 1 | The Quantitative Relationship among the Number of the Pacing Cells Required, the Dimension, and the Diffusion Coefficient. <i>BioMed Research International</i> , <b>2020</b> , 2020, 3608015              | 3 |   |