

Khin Wee Lai

List of Publications by Year in descending order

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Version: 2024-02-01

109
papers

1,133
citations

393982

19
h-index

500791

28
g-index

123
all docs

123
docs citations

123
times ranked

1054
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of zirconia-based bioceramic: Surface modification and cellular response. <i>Ceramics International</i> , 2016, 42, 12543-12555.	2.3	129
2	Gray-Level Co-occurrence Matrix Bone Fracture Detection. <i>American Journal of Applied Sciences</i> , 2011, 8, 26-32.	0.1	48
3	Emergence of Deep Learning in Knee Osteoarthritis Diagnosis. <i>Computational Intelligence and Neuroscience</i> , 2021, 2021, 1-20.	1.1	40
4	Synthesis and Characterization of Silver Nanoparticles and Silver Inks: Review on the Past and Recent Technology Roadmaps. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 3541-3550.	1.2	38
5	Knee cartilage segmentation and thickness computation from ultrasound images. <i>Medical and Biological Engineering and Computing</i> , 2018, 56, 657-669.	1.6	38
6	Multiobjectives bihistogram equalization for image contrast enhancement. <i>Complexity</i> , 2014, 20, 22-36.	0.9	37
7	A comparative study of multiple neural network for detection of COVID-19 on chest X-ray. <i>Eurasip Journal on Advances in Signal Processing</i> , 2021, 2021, 50.	1.0	37
8	A review on Deep Learning approaches for low-dose Computed Tomography restoration. <i>Complex & Intelligent Systems</i> , 2023, 9, 2713-2745.	4.0	34
9	An Overview on Image Registration Techniques for Cardiac Diagnosis and Treatment. <i>Cardiology Research and Practice</i> , 2018, 2018, 1-15.	0.5	32
10	An Overview of Deep Learning Techniques on Chest X-Ray and CT Scan Identification of COVID-19. <i>Computational and Mathematical Methods in Medicine</i> , 2021, 2021, 1-17.	0.7	31
11	2D to 3D fusion of echocardiography and cardiac CT for TAVR and TAVI image guidance. <i>Medical and Biological Engineering and Computing</i> , 2017, 55, 1317-1326.	1.6	30
12	Thermal distribution analysis of three-dimensional tumor-embedded breast models with different breast density compositions. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 1363-1373.	1.6	29
13	Discovering Knee Osteoarthritis Imaging Features for Diagnosis and Prognosis: Review of Manual Imaging Grading and Machine Learning Approaches. <i>Journal of Healthcare Engineering</i> , 2022, 2022, 1-19.	1.1	27
14	Contrast enhancement of ultrasound imaging of the knee joint cartilage for early detection of knee osteoarthritis. <i>Biomedical Signal Processing and Control</i> , 2014, 13, 157-167.	3.5	26
15	An Overview of Deep Learning Approaches in Chest Radiograph. <i>IEEE Access</i> , 2020, 8, 182347-182354.	2.6	25
16	Motion corrected LV quantification based on 3D modelling for improved functional assessment in cardiac MRI. <i>Physics in Medicine and Biology</i> , 2015, 60, 2715-2733.	1.6	24
17	Multiple LREK Active Contours for Knee Meniscus Ultrasound Image Segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 2162-2171.	5.4	23
18	Knee osteoarthritis severity classification with ordinal regression module. <i>Multimedia Tools and Applications</i> , 2022, 81, 41497-41509.	2.6	23

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19	Multimodality registration of two-dimensional echocardiography and cardiac CT for mitral valve diagnosis and surgical planning. <i>Journal of Medical Imaging</i> , 2017, 4, 1.	0.8	20
20	Multi-Modality Fusion & Inductive Knowledge Transfer Underlying Non-Sparse Multi-Kernel Learning and Distribution Adaption. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2023, 20, 2387-2397.	1.9	20
21	Regional assessment of LV wall in infarcted heart using tagged MRI and cardiac modelling. <i>Physics in Medicine and Biology</i> , 2015, 60, 4015-4031.	1.6	17
22	Synthesis of a Nano-Silver Metal Ink for Use in Thick Conductive Film Fabrication Applied on a Semiconductor Package. <i>PLoS ONE</i> , 2014, 9, e97484.	1.1	17
23	A Systematic Review of Medical Equipment Reliability Assessment in Improving the Quality of Healthcare Services. <i>Frontiers in Public Health</i> , 2021, 9, 753951.	1.3	16
24	Systematic Review on COVID-19 Readmission and Risk Factors: Future of Machine Learning in COVID-19 Readmission Studies. <i>Frontiers in Public Health</i> , 2022, 10, .	1.3	15
25	An artifacts removal post-processing for epiphyseal region-of-interest (EROI) localization in automated bone age assessment (BAA). <i>BioMedical Engineering OnLine</i> , 2011, 10, 87.	1.3	14
26	Multipurpose contrast enhancement on epiphyseal plates and ossification centers for bone age assessment. <i>BioMedical Engineering OnLine</i> , 2013, 12, 27.	1.3	14
27	Clinical translation of amide proton transfer (APT) MRI for ischemic stroke: a systematic review (2003â€“2020). <i>Quantitative Imaging in Medicine and Surgery</i> , 2021, 11, 3797-3811.	1.1	14
28	Performance Analysis of Machine Learning and Deep Learning Architectures on Early Stroke Detection Using Carotid Artery Ultrasound Images. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 828214.	1.7	14
29	Pilot Study on Machine Learning for Aortic Valve Detection in Echocardiography Images. <i>Journal of Medical Imaging and Health Informatics</i> , 2019, 9, 9-14.	0.2	12
30	Discovering the Predictive Value of Clinical Notes: Machine Learning Analysis with Text Representation. <i>Journal of Medical Imaging and Health Informatics</i> , 2020, 10, 2869-2875.	0.2	12
31	Carpal Bone Segmentation Using Fully Convolutional Neural Network. <i>Current Medical Imaging</i> , 2019, 15, 983-989.	0.4	12
32	Real-time Detection of Aortic Valve in Echocardiography using Convolutional Neural Networks. <i>Current Medical Imaging</i> , 2020, 16, 584-591.	0.4	11
33	Prioritisation Assessment and Robust Predictive System for Medical Equipment: A Comprehensive Strategic Maintenance Management. <i>Frontiers in Public Health</i> , 2021, 9, 782203.	1.3	11
34	Operational Damage Identification Scheme Utilizing De-Noised Frequency Response Functions and Artificial Neural Network. <i>Journal of Nondestructive Evaluation</i> , 2020, 39, 1.	1.1	10
35	Numerical study on convective heat transfer of a spark ignition engine fueled with bioethanol. <i>International Communications in Heat and Mass Transfer</i> , 2014, 58, 33-39.	2.9	9
36	Study of common quantification methods of amide proton transfer magnetic resonance imaging for ischemic stroke detection. <i>Magnetic Resonance in Medicine</i> , 2021, 85, 2188-2200.	1.9	9

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37	The Promise for Reducing Healthcare Cost with Predictive Model: An Analysis with Quantized Evaluation Metric on Readmission. <i>Journal of Healthcare Engineering</i> , 2021, 2021, 1-10.	1.1	9
38	Radiological Analysis of COVID-19 Using Computational Intelligence: A Broad Gauge Study. <i>Journal of Healthcare Engineering</i> , 2022, 2022, 1-25.	1.1	9
39	Multiclass Convolution Neural Network for Classification of COVID-19 CT Images. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-15.	1.1	9
40	Towards Integrated Air Pollution Monitoring and Health Impact Assessment Using Federated Learning: A Systematic Review. <i>Frontiers in Public Health</i> , 2022, 10, .	1.3	9
41	Current Trends in Readmission Prediction: An Overview of Approaches. <i>Arabian Journal for Science and Engineering</i> , 2023, 48, 11117-11134.	1.7	8
42	Color morphology and segmentation of the breast thermography image. , 2014, , .		7
43	Feasibility of A-mode ultrasound attenuation as a monitoring method of local hyperthermia treatment. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 967-981.	1.6	7
44	Unsupervised Damage Identification Scheme Using PCA-Reduced Frequency Response Function and Waveform Chain Code Analysis. <i>International Journal of Structural Stability and Dynamics</i> , 2020, 20, 2050091.	1.5	7
45	Comparative Study of Encoder-decoder-based Convolutional Neural Networks in Cartilage Delineation from Knee Magnetic Resonance Images. <i>Current Medical Imaging</i> , 2021, 17, 981-987.	0.4	7
46	Position Tracking Systems for Ultrasound Imaging: A Survey. <i>Lecture Notes in Bioengineering</i> , 2015, , 57-89.	0.3	6
47	An efficient adaptive compressive sensing technique for underwater image compression in IoUT. <i>Wireless Networks</i> , 0, , 1.	2.0	6
48	A Review of Machine Learning Network in Human Motion Biomechanics. <i>Journal of Grid Computing</i> , 2022, 20, 1.	2.5	6
49	Microcalcification Discrimination in Mammography Using Deep Convolutional Neural Network: Towards Rapid and Early Breast Cancer Diagnosis. <i>Frontiers in Public Health</i> , 2022, 10, 875305.	1.3	6
50	Detection of Aortic Valve from Echocardiography in Real-Time Using Convolutional Neural Network. , 2018, , .		5
51	Discovering the <i>Ganoderma Boninense</i> Detection Methods Using Machine Learning: A Review of Manual, Laboratory, and Remote Approaches. <i>IEEE Access</i> , 2021, 9, 105776-105787.	2.6	5
52	Early Detection of Readmission Risk for Decision Support Based on Clinical Notes. <i>Journal of Medical Imaging and Health Informatics</i> , 2021, 11, 529-534.	0.2	5
53	The development of skin lesion detection application in smart handheld devices using deep neural networks. <i>Multimedia Tools and Applications</i> , 2022, 81, 41579-41610.	2.6	5
54	X-ray carpal bone segmentation and area measurement. <i>Multimedia Tools and Applications</i> , 0, , 1.	2.6	5

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55	InNetGAN: Inception Network-Based Generative Adversarial Network for Denoising Low-Dose Computed Tomography. <i>Journal of Healthcare Engineering</i> , 2021, 2021, 1-20.	1.1	5
56	Speckle Noise Diffusion in Knee Articular Cartilage Ultrasound Images. <i>Current Medical Imaging</i> , 2020, 16, 739-751.	0.4	5
57	Echocardiography to cardiac CT image registration: Spatial and temporal registration of the 2D planar echocardiography images with cardiac CT volume. , 2016, , .		4
58	CT-MRI Dual Information Registration for the Diagnosis of Liver Cancer: A Pilot Study Using Point-based Registration. <i>Current Medical Imaging</i> , 2022, 18, 61-66.	0.4	4
59	A Low-Cost Multistage Cascaded Adaptive Filter Configuration for Noise Reduction in Phonocardiogram Signal. <i>Journal of Healthcare Engineering</i> , 2022, 2022, 1-24.	1.1	4
60	Machine Learning Application of Transcranial Motor-Evoked Potential to Predict Positive Functional Outcomes of Patients. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-13.	1.1	4
61	Bulk substrate porosity verification by applying Monte Carlo modeling and Castaing's formula using energy-dispersive x-rays. <i>Journal of Electronic Imaging</i> , 2015, 24, 061105.	0.5	3
62	Mitral valve rigid registration using 2D echocardiography and cardiac computed tomography. , 2017, , .		3
63	Knee Cartilage Ultrasound Image Segmentation Using Locally Statistical Level Set Method. <i>IFMBE Proceedings</i> , 2018, , 275-281.	0.2	3
64	Aortic Valve Segmentation using Deep Learning. , 2021, , .		3
65	The emergence of machine learning in auditory neural impairment: A systematic review. <i>Neuroscience Letters</i> , 2021, 765, 136250.	1.0	3
66	Train Convolutional Neural Networks Without Well-Segmented Ground Truth Images for Cartilage Localization: Data from the Osteoarthritis Initiatives. <i>Advanced Science Letters</i> , 2018, 24, 1771-1774.	0.2	3
67	Transcranial Electrical Motor Evoked Potential in Predicting Positive Functional Outcome of Patients after Decompressive Spine Surgery: Review on Challenges and Recommendations towards Objective Interpretation. <i>Behavioural Neurology</i> , 2021, 2021, 1-16.	1.1	3
68	A contrast enhancement framework under uncontrolled environments based on just noticeable difference. <i>Signal Processing: Image Communication</i> , 2022, 103, 116657.	1.8	3
69	Lower extremity kinematics walking speed classification using long short-term memory neural networks. <i>Multimedia Tools and Applications</i> , 2023, 82, 9745-9760.	2.6	3
70	Emerging Feature Extraction Techniques for Machine Learning-Based Classification of Carotid Artery Ultrasound Images. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-14.	1.1	3
71	Deep Machine Learning Histopathological Image Analysis for Renal Cancer Detection. , 2022, , .		3
72	Comparison studies of 2D and 3D ultrasound biparietal diameter for gestational age estimation. , 2011, , .		2

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73	Improved Ultrasound Imaging for Knee Osteoarthritis Detection. Lecture Notes in Bioengineering, 2015, , 1-40.	0.3	2
74	Clinical Trial of a Digital Scoliometer Device for Scoliosis Diagnosis. , 2018, , .		2
75	Brain Tumour Temporal Monitoring of Interval Change Using Digital Image Subtraction Technique. Frontiers in Public Health, 2021, 9, 752509.	1.3	2
76	Health efficacy of electrically operated automated massage on muscle properties, peripheral circulation, and physio-psychological variables: a narrative review. Eurasip Journal on Advances in Signal Processing, 2021, 2021, .	1.0	2
77	Review on Segmentation of Computer-Aided Skeletal Maturity Assessment. Lecture Notes in Bioengineering, 2014, , 23-51.	0.3	2
78	Contrast Enhancement of Ultrasound Image of Knee Joint Cartilage by Using Multipurpose Beta Optimized Recursive Bi-Histogram Equalization Method. , 2015, , .		2
79	Multiple active contours using scalable local regional information on expandable kernel. , 2014, , .		1
80	Elimination of character-resembling anomalies within a detected region using density-dependent reference point construction in an automated license plate recognition system. Journal of Electronic Imaging, 2016, 25, 061614.	0.5	1
81	Holistic contrast enhancement of carpals ossification sites for skeletal age assessment system. Journal of Engineering, 2017, 2017, 479-494.	0.6	1
82	Structural and bone marrow stem cell biocompatibility studies of hydrogel synthesized via chemo-enzymatic route. Journal of Biomaterials Applications, 2019, 33, 854-865.	1.2	1
83	Detection of Aortic Valve Using Deep Learning Approaches. , 2021, , .		1
84	Hyperthermia therapy monitoring with guidance of B-Mode ultrasound: Study on rat breast tumor tissue. Malaysian Journal of Fundamental and Applied Sciences, 2017, 13, 489-494.	0.4	1
85	Texture Similarity Analysis of Breast Abnormalities in Infrared Thermal Image. Journal of Medical Imaging and Health Informatics, 2017, 7, 1830-1836.	0.2	1
86	Comparative studies of two dimensional and three dimensional ultrasonic nuchal translucency in trisomy assessments. Anais Da Academia Brasileira De Ciencias, 2012, 84, 1157-1168.	0.3	1
87	Performance metrics for active contour models in image segmentation. African Journal of Business Management, 2011, 6, .	0.4	1
88	Medicine and Engineering Related Researches on the Utility of Two Dimensional Nuchal Translucency. SpringerBriefs in Applied Sciences and Technology, 2013, , 11-45.	0.2	1
89	Measurement of Ultrasound Attenuation and Protein Denaturation Behavior During Hyperthermia Monitoring. Lecture Notes in Bioengineering, 2015, , 205-222.	0.3	1
90	In-socket sensory system with an adaptive neuro-based fuzzy inference system for active transfemoral prosthetic legs. Journal of Electronic Imaging, 2018, 28, 1.	0.5	1

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91	Prediction of Hospital Readmission Combining Rule-based and Machine Learning Model. , 2020, , .		1
92	A novel radio propagation and radiation model of the wireless capsule endoscopy in human gastro-intestine (GI) tract. , 2011, , .		0
93	Speckle noise reduction of ultrasound knee biomarker with edge and detail preservation using improved diffusivity function. , 2014, , .		0
94	A Novel Hybrid Magnetoacoustic Measurement Method for Breast Cancer Detection. Lecture Notes in Bioengineering, 2014, , 137-165.	0.3	0
95	Agreement Between Eyes in Wide-Field Fluorescence Lifetime Imaging Ophthalmoscopy Measurements at the Human Retina in Healthy Volunteers. IFMBE Proceedings, 2016, , 298-301.	0.2	0
96	Adaptive Network Based Fuzzy Inference System (ANFIS) for an Active Transfemoral Prosthetic Leg by Using In-Socket Sensory System. IFMBE Proceedings, 2018, , 283-287.	0.2	0
97	Anisotropic Diffusion for Reduction of Speckle Noise in Knee Articular Cartilage Ultrasound Images. IFMBE Proceedings, 2021, , 46-53.	0.2	0
98	Investigating the Effects of Ogawa Master Drive AI Automated Massage on Blood Circulation and Sleep Quality. Journal of Medical Imaging and Health Informatics, 2021, 11, 1357-1363.	0.2	0
99	CORSegNet: Deep Neural Network for Core Object Segmentation on Medical Images. Journal of Medical Imaging and Health Informatics, 2021, 11, 1364-1371.	0.2	0
100	An object-oriented approach of generic diffusion computing for three dimensional ultrasound volumetric images. International Journal of Physical Sciences, 2011, 6, .	0.1	0
101	Clinical Tests and Measurements. SpringerBriefs in Applied Sciences and Technology, 2013, , 95-108.	0.2	0
102	Designs and Implementation of Three Dimensional Nuchal Translucency. SpringerBriefs in Applied Sciences and Technology, 2013, , 47-94.	0.2	0
103	Ultrasonic Elastography and Breast Imaging. Lecture Notes in Bioengineering, 2014, , 1-22.	0.3	0
104	Sequential Process of Emotional Information from Facial Expressions: Simple Event-Related Potential (ERP) for the Study of Brain Activities. Lecture Notes in Bioengineering, 2014, , 167-188.	0.3	0
105	Vibroarthrography Difference Between Left and Right Knee for Osteoarthritis Detection. IFMBE Proceedings, 2018, , 289-294.	0.2	0
106	Effect of Different Parameters of Nd:YAG Laser Irradiation on Self Etching Primer. Journal of Medical Imaging and Health Informatics, 2018, 8, 444-451.	0.2	0
107	Novel Approach to Non-Invasive Detection of Osteoarthritis Using Capacitive Tri-Axial Accelerometers. Journal of Medical Imaging and Health Informatics, 2018, 8, 1176-1185.	0.2	0
108	Ablation of Dental Glass Ionomer Cement Using Neodymium-Doped Yttrium Aluminium Garnet Laser. Journal of Medical Imaging and Health Informatics, 2019, 9, 1787-1795.	0.2	0

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109	Investigation of single beam ultrasound sensitivity as a monitoring tool for local hyperthermia treatment in breast cancer. Multimedia Tools and Applications, 0, , 1.	2.6	0