

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	A review on Deep Learning approaches for low-dose Computed Tomography restoration. <i>Complex & Intelligent Systems</i> , 2023, 9, 2713-2745.	4.0	34
2	Current Trends in Readmission Prediction: An Overview of Approaches. <i>Arabian Journal for Science and Engineering</i> , 2023, 48, 11117-11134.	1.7	8
3	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
4	Lower extremity kinematics walking speed classification using long short-term memory neural frameworks. <i>Multimedia Tools and Applications</i> , 2023, 82, 9745-9760.	2.6	3
5	Knee osteoarthritis severity classification with ordinal regression module. <i>Multimedia Tools and Applications</i> , 2022, 81, 41497-41509.	2.6	23
6	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
7	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
8	A contrast enhancement framework under uncontrolled environments based on just noticeable difference. <i>Signal Processing: Image Communication</i> , 2022, 103, 116657.	1.8	3
9	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
10	A Review of Machine Learning Network in Human Motion Biomechanics. <i>Journal of Grid Computing</i> , 2022, 20, 1.	2.5	6
11	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
12	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
13	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
14	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
15	Multiclass Convolution Neural Network for Classification of COVID-19 CT Images. <i>Computational Intelligence and Neuroscience</i> , 2022, 2022, 1-15.	1.1	9
16	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
17	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
18	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

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19	Deep Machine Learning Histopathological Image Analysis for Renal Cancer Detection. , 2022, , .		3
20	Study of common quantification methods of amide proton transfer magnetic resonance imaging for ischemic stroke detection. Magnetic Resonance in Medicine, 2021, 85, 2188-2200.	1.9	9
21	Discovering the <i>Ganoderma Boninense</i> Detection Methods Using Machine Learning: A Review of Manual, Laboratory, and Remote Approaches. IEEE Access, 2021, 9, 105776-105787.	2.6	5
22	Anisotropic Diffusion for Reduction of Speckle Noise in Knee Articular Cartilage Ultrasound Images. IFMBE Proceedings, 2021, , 46-53.	0.2	0
23	Early Detection of Readmission Risk for Decision Support Based on Clinical Notes. Journal of Medical Imaging and Health Informatics, 2021, 11, 529-534.	0.2	5
24	Detection of Aortic Valve Using Deep Learning Approaches. , 2021, , .		1
25	Aortic Valve Segmentation using Deep Learning. , 2021, , .		3
26	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
27	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
28	An Overview of Deep Learning Techniques on Chest X-Ray and CT Scan Identification of COVID-19. Computational and Mathematical Methods in Medicine, 2021, 2021, 1-17.	0.7	31
29	A comparative study of multiple neural network for detection of COVID-19 on chest X-ray. Eurasip Journal on Advances in Signal Processing, 2021, 2021, 50.	1.0	37
30	Comparative Study of Encoder-decoder-based Convolutional Neural Networks in Cartilage Delineation from Knee Magnetic Resonance Images. Current Medical Imaging, 2021, 17, 981-987.	0.4	7
31	Clinical translation of amide proton transfer (APT) MRI for ischemic stroke: a systematic review (2003â€“2020). Quantitative Imaging in Medicine and Surgery, 2021, 11, 3797-3811.	1.1	14
32	A Systematic Review of Medical Equipment Reliability Assessment in Improving the Quality of Healthcare Services. Frontiers in Public Health, 2021, 9, 753951.	1.3	16
33	Brain Tumour Temporal Monitoring of Interval Change Using Digital Image Subtraction Technique. Frontiers in Public Health, 2021, 9, 752509.	1.3	2
34	InNetGAN: Inception Network-Based Generative Adversarial Network for Denoising Low-Dose Computed Tomography. Journal of Healthcare Engineering, 2021, 2021, 1-20.	1.1	5
35	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
36	The emergence of machine learning in auditory neural impairment: A systematic review. Neuroscience Letters, 2021, 765, 136250.	1.0	3

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37	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
38	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
39	Emergence of Deep Learning in Knee Osteoarthritis Diagnosis. <i>Computational Intelligence and Neuroscience</i> , 2021, 2021, 1-20.	1.1	40
40	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
41	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
42	An Overview of Deep Learning Approaches in Chest Radiograph. <i>IEEE Access</i> , 2020, 8, 182347-182354.	2.6	25
43	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
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	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
46	Real-time Detection of Aortic Valve in Echocardiography using Convolutional Neural Networks. <i>Current Medical Imaging</i> , 2020, 16, 584-591.	0.4	11
47	Prediction of Hospital Readmission Combining Rule-based and Machine Learning Model. , 2020, , .		1
48	Speckle Noise Diffusion in Knee Articular Cartilage Ultrasound Images. <i>Current Medical Imaging</i> , 2020, 16, 739-751.	0.4	5
49	Structural and bone marrow stem cell biocompatibility studies of hydrogel synthesized via chemo-enzymatic route. <i>Journal of Biomaterials Applications</i> , 2019, 33, 854-865.	1.2	1
50	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
51	Carpal Bone Segmentation Using Fully Convolutional Neural Network. <i>Current Medical Imaging</i> , 2019, 15, 983-989.	0.4	12
52	Ablation of Dental Glass Ionomer Cement Using Neodymium-Doped Yttrium Aluminium Garnet Laser. <i>Journal of Medical Imaging and Health Informatics</i> , 2019, 9, 1787-1795.	0.2	0
53	Knee Cartilage Ultrasound Image Segmentation Using Locally Statistical Level Set Method. <i>IFMBE Proceedings</i> , 2018, , 275-281.	0.2	3
54	Adaptive Network Based Fuzzy Inference System (ANFIS) for an Active Transfemoral Prosthetic Leg by Using In-Socket Sensory System. <i>IFMBE Proceedings</i> , 2018, , 283-287.	0.2	0

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55	Knee cartilage segmentation and thickness computation from ultrasound images. Medical and Biological Engineering and Computing, 2018, 56, 657-669.	1.6	38
56	Clinical Trial of a Digital Scoliometer Device for Scoliosis Diagnosis. , 2018, , .		2
57	Detection of Aortic Valve from Echocardiography in Real-Time Using Convolutional Neural Network. , 2018, , .		5
58	An Overview on Image Registration Techniques for Cardiac Diagnosis and Treatment. Cardiology Research and Practice, 2018, 2018, 1-15.	0.5	32
59	Train Convolutional Neural Networks Without Well-Segmented Ground Truth Images for Cartilage Localization: Data from the Osteoarthritis Initiatives. Advanced Science Letters, 2018, 24, 1771-1774.	0.2	3
60	Vibroarthrography Difference Between Left and Right Knee for Osteoarthritis Detection. IFMBE Proceedings, 2018, , 289-294.	0.2	0
61	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
62	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
63	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
64	Mitral valve rigid registration using 2D echocardiography and cardiac computed tomography. , 2017, , .		3
65	2D to 3D fusion of echocardiography and cardiac CT for TAVR and TAVI image guidance. Medical and Biological Engineering and Computing, 2017, 55, 1317-1326.	1.6	30
66	Holistic contrast enhancement of carpals ossification sites for skeletal age assessment system. Journal of Engineering, 2017, 2017, 479-494.	0.6	1
67	Multimodality registration of two-dimensional echocardiography and cardiac CT for mitral valve diagnosis and surgical planning. Journal of Medical Imaging, 2017, 4, 1.	0.8	20
68	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
69	Texture Similarity Analysis of Breast Abnormalities in Infrared Thermal Image. Journal of Medical Imaging and Health Informatics, 2017, 7, 1830-1836.	0.2	1
70	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
71	Echocardiography to cardiac CT image registration: Spatial and temporal registration of the 2D planar echocardiography images with cardiac CT volume. , 2016, , .		4
72	Feasibility of A-mode ultrasound attenuation as a monitoring method of local hyperthermia treatment. Medical and Biological Engineering and Computing, 2016, 54, 967-981.	1.6	7

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73	Review of zirconia-based bioceramic: Surface modification and cellular response. <i>Ceramics International</i> , 2016, 42, 12543-12555.	2.3	129
74	Agreement Between Eyes in Wide-Field Fluorescence Lifetime Imaging Ophthalmoscopy Measurements at the Human Retina in Healthy Volunteers. <i>IFMBE Proceedings</i> , 2016, , 298-301.	0.2	0
75	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
76	Improved Ultrasound Imaging for Knee Osteoarthritis Detection. <i>Lecture Notes in Bioengineering</i> , 2015, , 1-40.	0.3	2
77	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
78	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
79	Multiple LREK Active Contours for Knee Meniscus Ultrasound Image Segmentation. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 2162-2171.	5.4	23
80	Position Tracking Systems for Ultrasound Imaging: A Survey. <i>Lecture Notes in Bioengineering</i> , 2015, , 57-89.	0.3	6
81	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
82	Contrast Enhancement of Ultrasound Image of Knee Joint Cartilage by Using Multipurpose Beta Optimized Recursive Bi-Histogram Equalization Method. , 2015, , .		2
83	Measurement of Ultrasound Attenuation and Protein Denaturation Behavior During Hyperthermia Monitoring. <i>Lecture Notes in Bioengineering</i> , 2015, , 205-222.	0.3	1
84	Multiobjectives bihistogram equalization for image contrast enhancement. <i>Complexity</i> , 2014, 20, 22-36.	0.9	37
85	Multiple active contours using scalable local regional information on expandable kernel. , 2014, , .		1
86	Speckle noise reduction of ultrasound knee biomarker with edge and detail preservation using improved diffusivity function. , 2014, , .		0
87	A Novel Hybrid Magnetoacoustic Measurement Method for Breast Cancer Detection. <i>Lecture Notes in Bioengineering</i> , 2014, , 137-165.	0.3	0
88	Color morphology and segmentation of the breast thermography image. , 2014, , .		7
89	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
90	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

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91	Contrast enhancement of ultrasound imaging of the knee joint cartilage for early detection of knee osteoarthritis. Biomedical Signal Processing and Control, 2014, 13, 157-167.	3.5	26
92	Review on Segmentation of Computer-Aided Skeletal Maturity Assessment. Lecture Notes in Bioengineering, 2014, , 23-51.	0.3	2
93	Synthesis of a Nano-Silver Metal Ink for Use in Thick Conductive Film Fabrication Applied on a Semiconductor Package. PLoS ONE, 2014, 9, e97484.	1.1	17
94	Ultrasonic Elastography and Breast Imaging. Lecture Notes in Bioengineering, 2014, , 1-22.	0.3	0
95	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
96	Multipurpose contrast enhancement on epiphyseal plates and ossification centers for bone age assessment. BioMedical Engineering OnLine, 2013, 12, 27.	1.3	14
97	Clinical Tests and Measurements. SpringerBriefs in Applied Sciences and Technology, 2013, , 95-108.	0.2	0
98	Designs and Implementation of Three Dimensional Nuchal Translucency. SpringerBriefs in Applied Sciences and Technology, 2013, , 47-94.	0.2	0
99	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
100	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
101	Comparison studies of 2D and 3D ultrasound biparietal diameter for gestational age estimation. , 2011, , .		2
102	Gray-Level Co-occurrence Matrix Bone Fracture Detection. American Journal of Applied Sciences, 2011, 8, 26-32.	0.1	48
103	An artifacts removal post-processing for epiphyseal region-of-interest (EROI) localization in automated bone age assessment (BAA). BioMedical Engineering OnLine, 2011, 10, 87.	1.3	14
104	A novel radio propagation and radiation model of the wireless capsule endoscopy in human gastro-intestine (GI) tract. , 2011, , .		0
105	An object-oriented approach of generic diffusion computing for three dimensional ultrasound volumetric images. International Journal of Physical Sciences, 2011, 6, .	0.1	0
106	Performance metrics for active contour models in image segmentation. African Journal of Business Management, 2011, 6, .	0.4	1
107	X-ray carpal bone segmentation and area measurement. Multimedia Tools and Applications, 0, , 1.	2.6	5
108	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

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109	An efficient adaptive compressive sensing technique for underwater image compression in IoT. Wireless Networks, 0, , 1.	2.0	6