Ken Cai

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5007404/publications.pdf

Version: 2024-02-01

54 papers	1,164 citations	430754 18 h-index	414303 32 g-index
54 all docs	54 docs citations	54 times ranked	1059 citing authors

#	Article	IF	Citations
1	Medical image fusion based on saliency and adaptive similarity judgment. Personal and Ubiquitous Computing, 2023, 27, 2019-2025.	1.9	2
2	Feedback Convolutional Network for Intelligent Data Fusion Based on Near-Infrared Collaborative IoT Technology. IEEE Transactions on Industrial Informatics, 2022, 18, 1200-1209.	7.2	55
3	LBS Meets Blockchain: An Efficient Method With Security Preserving Trust in SAGIN. IEEE Internet of Things Journal, 2022, 9, 5932-5942.	5.5	45
4	A Short-Term Traffic Flow Prediction Model Based on an Improved Gate Recurrent Unit Neural Network. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 16654-16665.	4.7	68
5	Multiattribute group decision-making method with double reference points and its applications in technological innovation environmental assessment. AEJ - Alexandria Engineering Journal, 2022, 61, 7749-7758.	3.4	2
6	Machine Learning Framework for Intelligent Detection of Wastewater Pollution by IoT-Based Spectral Technology. Wireless Communications and Mobile Computing, 2022, 2022, 1-10.	0.8	2
7	Big Data Analysis Technology for Electric Vehicle Networks in Smart Cities. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 1807-1816.	4.7	61
8	Probabilistic Threshold k-ANN Query Method Based on Uncertain Voronoi Diagram in Internet of Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 3592-3602.	4.7	14
9	Quantitative analysis of organic acids in pomelo fruit using FT-NIR spectroscopy coupled with network kernel PLS regression. Infrared Physics and Technology, 2021, 112, 103582.	1.3	7
10	Improving medical image fusion method using fuzzy entropy and nonsubsampling contourlet transform. International Journal of Imaging Systems and Technology, 2021, 31, 204-214.	2.7	19
11	Machine vision-based network monitoring system for solar-blind ultraviolet signal. Computer Communications, 2021, 171, 157-162.	3.1	3
12	Research on strong agile response task scheduling optimization enhancement with optimal resource usage in green cloud computing. Future Generation Computer Systems, 2021, 124, 12-20.	4.9	84
13	Non-contact heart rate detection by combining empirical mode decomposition and permutation entropy under non-cooperative face shake. Neurocomputing, 2020, 392, 142-152.	3.5	11
14	Parametric-scaling optimization of pretreatment methods for the determination of trace/quasi-trace elements based on near infrared spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 229, 117959.	2.0	6
15	A Novel Genetic Algorithm-Based Optimization Framework for the Improvement of Near-Infrared Quantitative Calibration Models. Computational Intelligence and Neuroscience, 2020, 2020, 1-10.	1.1	4
16	A deep learning CNN architecture applied in smart near-infrared analysis of water pollution for agricultural irrigation resources. Agricultural Water Management, 2020, 240, 106303.	2.4	213
17	Optimization Model for the Distribution of Fiducial Markers in Liver Intervention. Journal of Medical Systems, 2020, 44, 83.	2.2	1
18	Combining Chrominance Features and Fast ICA for Noncontact Imaging Photoplethysmography. IEEE Access, 2020, 8, 50171-50179.	2.6	7

#	Article	IF	Citations
19	Automatic detection of feather defects using Lie group and fuzzy Fisher criterion for shuttlecock production. Mechanical Systems and Signal Processing, 2020, 141, 106690.	4.4	53
20	Comparative assessment on smart pre-processing methods for extracting information in FT-NIR measured data. Measurement: Journal of the International Measurement Confederation, 2020, 157, 107663.	2.5	5
21	Kernel functions embedded in support vector machine learning models for rapid water pollution assessment via near-infrared spectroscopy. Science of the Total Environment, 2020, 714, 136765.	3.9	34
22	Hybrid Entangled States With Multi-Degree of Freedom and High Purity for Internet of Vehicles. IEEE Access, 2020, 8, 67456-67465.	2.6	1
23	Rapid Detection of Pomelo Fruit Quality Using Near-Infrared Hyperspectral Imaging Combined With Chemometric Methods. Frontiers in Bioengineering and Biotechnology, 2020, 8, 616943.	2.0	13
24	Automatic registration method using EM sensors in the IoT operating room. Eurasip Journal on Wireless Communications and Networking, 2020, 2020, .	1.5	2
25	A Fuzzy Optimization Strategy for the Implementation of RBF LSSVR Model in Visâ€“NIR Analysis of Pomelo Maturity. IEEE Transactions on Industrial Informatics, 2019, 15, 5971-5979.	7.2	98
26	A New Approach for Noncontact Imaging Photoplethysmography Using Chrominance Features and Low-Rank in the IoT Operating Room. IEEE Access, 2019, 7, 112284-112294.	2.6	4
27	Study of modeling optimization for hyperspectral imaging quantitative determination of naringin content in pomelo peel. Computers and Electronics in Agriculture, 2019, 157, 410-416.	3.7	6
28	Construction of Classroom Teaching Model Based on the 5G Communication Technology. , 2019, , .		6
29	A Method of Multi-Attribute Decision Making With Double-Reference Points and its Application in Location of Agricultural Products Logistics Center. IEEE Access, 2019, 7, 167629-167638.	2.6	3
30	Geometric calibration of markerless optical surgical navigation system. International Journal of Medical Robotics and Computer Assisted Surgery, 2019, 15, e1978.	1.2	11
31	A SVM Multi-Class Image Classification Method Based on DE and KNN in Smart City Management. IEEE Access, 2019, 7, 132775-132785.	2.6	16
32	Determination of Parameter Uncertainty for Quantitative Analysis of Shaddock Peel Pectin using Linear and Nonlinear Near-infrared Spectroscopic Models. Analytical Letters, 2018, 51, 1564-1577.	1.0	13
33	Grid search parametric optimization for FT-NIR quantitative analysis of solid soluble content in strawberry samples. Vibrational Spectroscopy, 2018, 94, 7-15.	1.2	41
34	Robust Stereo-Match Algorithm for Infrared Markers in Image-Guided Optical Tracking System. IEEE Access, 2018, 6, 52421-52433.	2.6	18
35	A combination strategy of random forest and back propagation network for variable selection in spectral calibration. Chemometrics and Intelligent Laboratory Systems, 2018, 182, 101-108.	1.8	19
36	Quantitative analysis of soil nutrition based on FT-NIR spectroscopy integrated with BP neural deep learning. Analytical Methods, 2018, 10, 5004-5013.	1.3	26

#	Article	IF	Citations
37	Dynamic updating atlas for heart segmentation with a nonlinear fieldâ€based model. International Journal of Medical Robotics and Computer Assisted Surgery, 2017, 13, e1785.	1.2	4
38	A framework combining window width-level adjustment and Gaussian filter-based multi-resolution for automatic whole heart segmentation. Neurocomputing, 2017, 220, 138-150.	3.5	28
39	Tetralogy of Fallot Cardiac Function Evaluation and Intelligent Diagnosis Based on Dual-Source Computed Tomography Cardiac Images. Artificial Organs, 2016, 40, 459-469.	1.0	7
40	An intelligent method for extraction ofÂshape contour of rice planthoppers. Journal of Intelligent and Fuzzy Systems, 2016, 31, 2129-2135.	0.8	0
41	Simulation of multi-probe radiofrequency ablation guided by optical surgery navigation system under different active modes. Computer Assisted Surgery, 2016, 21, 107-116.	0.6	3
42	Development and Validation of a Near-Infrared Optical System for Tracking Surgical Instruments. Journal of Medical Systems, 2016, 40, 107.	2.2	19
43	Real-time automatic registration in optical surgical navigation. Infrared Physics and Technology, 2016, 76, 375-385.	1.3	24
44	Synchronization Design and Error Analysis of Near-Infrared Cameras in Surgical Navigation. Journal of Medical Systems, 2016, 40, 7.	2.2	12
45	Tracking multiple surgical instruments in a near-infrared optical system. Computer Assisted Surgery, 2016, 21, 46-55.	0.6	13
46	Near-Infrared Camera Calibration for Optical Surgical Navigation. Journal of Medical Systems, 2016, 40, 67.	2.2	7
47	Simulation and Visualization of Liver Cancer Ablation Focus in Optical Surgical Navigation. Journal of Medical Systems, 2016, 40, 19.	2.2	6
48	Use of random forest in <scp>FTIR</scp> analysis of <scp>LDL</scp> cholesterol and triâ€glycerides for hyperlipidemia. Biotechnology Progress, 2015, 31, 1693-1702.	1.3	10
49	Investigation of sample partitioning in quantitative near-infrared analysis of soil organic carbon based on parametric LS-SVR modeling. RSC Advances, 2015, 5, 80612-80619.	1.7	15
50	Strategy for accurate liver intervention by an optical tracking system. Biomedical Optics Express, 2015, 6, 3287.	1.5	22
51	A Semi-Automatic Coronary Artery Segmentation Framework Using Mechanical Simulation. Journal of Medical Systems, 2015, 39, 129.	2.2	14
52	UN ALGORITMO AUTOMÃ•TICO PARA DISTINGUIR LOS MARCADORES OPTICOS DE NAVEGACIÃ“N UTILIZADOS DURANTE LA CIRUGÃA. Dyna (Spain), 2015, 90, 203-209.	0.1	7
53	Implementation of RSA Algorithm Using SOPC Technology. , 2010, , .		0
54	A Reconfigurable Platform for MPEG-4 Encoder Based on SOPC. , 2009, , .		0