

Nipon Theera-Umpon

List of Publications by Year in descending order

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Version: 2024-02-01

122
papers

1,365
citations

516215

16
h-index

433756

31
g-index

132
all docs

132
docs citations

132
times ranked

1221
citing authors

#	ARTICLE	IF	CITATIONS
1	Automatic cervical cell segmentation and classification in Pap smears. Computer Methods and Programs in Biomedicine, 2014, 113, 539-556.	2.6	205
2	Morphological Granulometric Features of Nucleus in Automatic Bone Marrow White Blood Cell Classification. IEEE Transactions on Information Technology in Biomedicine, 2007, 11, 353-359.	3.6	134
3	Boundary Detection in Medical Images Using Edge Following Algorithm Based on Intensity Gradient and Texture Gradient Features. IEEE Transactions on Biomedical Engineering, 2011, 58, 567-573.	2.5	69
4	White Blood Cell Segmentation and Classification in Microscopic Bone Marrow Images. Lecture Notes in Computer Science, 2005, , 787-796.	1.0	57
5	XGBoost-Based Framework for Smoking-Induced Noncommunicable Disease Prediction. International Journal of Environmental Research and Public Health, 2020, 17, 6513.	1.2	50
6	Bone Age Assessment in Young Children Using Automatic Carpal Bone Feature Extraction and Support Vector Regression. Journal of Digital Imaging, 2011, 24, 1044-1058.	1.6	49
7	System-level training of neural networks for counting white blood cells. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2002, 32, 48-53.	3.3	36
8	Automatic segmentation and degree identification in burn color images. , 2012, , .		32
9	Counting white blood cells using morphological granulometries. Journal of Electronic Imaging, 2000, 9, 170.	0.5	31
10	Unsupervised Anomaly Detection Approach for Time-Series in Multi-Domains Using Deep Reconstruction Error. Symmetry, 2020, 12, 1251.	1.1	29
11	A novel neuro-fuzzy method for linguistic feature selection and rule-based classification. , 2010, , .		26
12	Face recognition technology development with Gabor, PCA and SVM methodology under illumination normalization condition. Cluster Computing, 2018, 21, 1117-1126.	3.5	25
13	Non-homothetic granulometric mixing theory with application to blood cell counting. Pattern Recognition, 2001, 34, 2547-2560.	5.1	20
14	Explainable Artificial Intelligence Based Framework for Non-Communicable Diseases Prediction. IEEE Access, 2021, 9, 123672-123688.	2.6	20
15	An Efficient Prediction Method for Coronary Heart Disease Risk Based on Two Deep Neural Networks Trained on Well-Ordered Training Datasets. IEEE Access, 2021, 9, 135210-135223.	2.6	20
16	Thai sign language translation using Scale Invariant Feature Transform and Hidden Markov Models. Pattern Recognition Letters, 2013, 34, 1291-1298.	2.6	19
17	Phoneme and tonal accent recognition for Thai speech. Expert Systems With Applications, 2011, 38, 13254-13259.	4.4	17
18	Microarray data classification using neuro-fuzzy classifier with firefly algorithm. , 2017, , .		17

#	ARTICLE	IF	CITATIONS
19	Diagnosis of diabetic retinopathy based on holistic texture and local retinal features. Information Sciences, 2019, 475, 44-66.	4.0	17
20	Hard exudate detection in retinal fundus images using supervised learning. Neural Computing and Applications, 2020, 32, 13079-13096.	3.2	17
21	Relationships between serum biomarker levels and clinical presentation of human osteosarcomas. Asian Pacific Journal of Cancer Prevention, 2011, 12, 1717-22.	0.5	17
22	Top-N Recommender Systems Using Genetic Algorithm-Based Visual-Clustering Methods. Symmetry, 2016, 8, 54.	1.1	16
23	Deep Learning Feature Extraction Approach for Hematopoietic Cancer Subtype Classification. International Journal of Environmental Research and Public Health, 2021, 18, 2197.	1.2	15
24	Interpretation of nevirapine concentration from immunochromatographic strip test using support vector regression. , 2008, , .		14
25	<title>Detection and classification of MSTAR objects via morphological shared-weight neural networks</title>. , 1998, , .		13
26	Colon Tumor Microarray Classification Using Neural Network with Feature Selection and Rule-Based Classification. Lecture Notes in Electrical Engineering, 2010, , 363-372.	0.3	13
27	Automatic detection of electricity pylons in aerial video sequences. , 2010, , .		12
28	Simplified Neural Network Model Design with Sensitivity Analysis and Electricity Consumption Prediction in a Commercial Building. Energies, 2019, 12, 1201.	1.6	12
29	Microcalcification detection in mammograms using interval type-2 fuzzy logic system with automatic membership function generation. , 2010, , .		11
30	Applying memetic algorithm-based clustering to recommender system with high sparsity problem. Journal of Central South University, 2014, 21, 3541-3550.	1.2	11
31	Face recognition using string grammar fuzzy K-nearest neighbor. , 2016, , .		11
32	Novel Rapid Protein Coating Technique for Silicon Photonic Biosensor to Improve Surface Morphology and Increase Bioreceptor Density. Coatings, 2021, 11, 595.	1.2	11
33	Thai Sign Language Translation Using Fuzzy C-Means and Scale Invariant Feature Transform. Lecture Notes in Computer Science, 2008, , 1107-1119.	1.0	11
34	Application of support vector based methods for cervical cancer cell classification. , 2015, , .		10
35	A string grammar fuzzy-possibilistic C-medians. Applied Soft Computing Journal, 2017, 57, 684-695.	4.1	10
36	A Partially Interpretable Adaptive Softmax Regression for Credit Scoring. Applied Sciences (Switzerland), 2021, 11, 3227.	1.3	10

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37	Automatic cardiac T2* relaxation time estimation from magnetic resonance images using region growing method with automatically initialized seed points. Computer Methods and Programs in Biomedicine, 2016, 130, 76-86.	2.6	9
38	Deep Learning-Based Demand Forecasting for Korean Postal Delivery Service. IEEE Access, 2020, 8, 188135-188145.	2.6	9
39	Cervical Cell Classification using Fourier Transform. IFMBE Proceedings, 2009, , 476-480.	0.2	9
40	Navigation system of mobile robot in an uncertain environment using type-2 fuzzy modelling. , 2011, , .		8
41	Patch-Based Fetal Heart Chamber Segmentation in Ultrasound Sequences Using Possibilistic Clustering. , 2015, , .		8
42	String Grammar Unsupervised Possibilistic Fuzzy C-Medians for Gait Pattern Classification in Patients with Neurodegenerative Diseases. Computational Intelligence and Neuroscience, 2018, 2018, 1-10.	1.1	8
43	Electrocardiogram reconstruction using support vector regression. , 2012, , .		7
44	A Novel Fuzzy Co-occurrence Matrix for Texture Feature Extraction. Lecture Notes in Computer Science, 2013, , 246-257.	1.0	7
45	Vision-based automatic vehicle counting system using motion estimation with Taylor series approximation. , 2016, , .		7
46	A Novel String Grammar Unsupervised Possibilistic C-Medians Algorithm for Sign Language Translation Systems. Symmetry, 2017, 9, 321.	1.1	7
47	A Soft Sensor-Based Fault-Tolerant Control on the Air Fuel Ratio of Spark-Ignition Engines. Energies, 2017, 10, 131.	1.6	7
48	Person Identification from Ear Images Using Convolutional Neural Networks. , 2019, , .		7
49	<title>Detecting landmines using weighted density distribution function features</title>. , 2001, , .		6
50	River basin flood prediction using support vector machines. , 2008, , .		6
51	Runoff forecasting using fuzzy support vector regression. , 2009, , .		6
52	Multilayer perceptron with Cuckoo search in water level prediction for flood forecasting. , 2016, , .		6
53	Microcalcification Detection in Mammograms Using Interval Type-2 Fuzzy Logic System. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	5
54	Thai sign language translation system using upright speed-up robust feature and c-means clustering. , 2012, , .		5

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55	Dental fluorosis classification using multi-prototypes from fuzzy C-means clustering. , 2014, , .		5
56	Ellipsoidal support vector data description. Neural Computing and Applications, 2017, 28, 337-347.	3.2	5
57	Analysis of a Similarity Measure for Non-Overlapped Data. Symmetry, 2017, 9, 68.	1.1	5
58	Design of Wearable Radio Frequency Identification Antenna. Wireless Personal Communications, 2018, 98, 3059-3070.	1.8	5
59	Three-Dimensional Tooth Model Reconstruction Using Statistical Randomization-Based Particle Swarm Optimization. Applied Sciences (Switzerland), 2021, 11, 2363.	1.3	5
60	Leeway Prediction of Oceanic Disastrous Target via Support Vector Regression. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2004, 8, 606-612.	0.5	5
61	Recurrent Neural Network-Augmented Locally Adaptive Interpretable Regression for Multivariate Time-Series Forecasting. IEEE Access, 2022, 10, 11871-11885.	2.6	5
62	Automatic Programmable Bioreactor with pH Monitoring System for Tissue Engineering Application. Bioengineering, 2022, 9, 187.	1.6	5
63	Discovering Thematically Coherent Biomedical Documents Using Contextualized Bidirectional Encoder Representations from Transformers-Based Clustering. International Journal of Environmental Research and Public Health, 2022, 19, 5893.	1.2	5
64	Left ventricular segmentation of cardiac magnetic resonance images using a novel edge following technique. , 2008, , .		4
65	Moisture Content Prediction of Dried Longan Aril from Dielectric Constant Using Multilayer Perceptrons and Support Vector Regression. American Journal of Applied Sciences, 2010, 7, 1387-1392.	0.1	4
66	Thai sign language translation system using upright speed-up robust feature and dynamic time warping. , 2012, , .		4
67	Multi-prototype fuzzy clustering with fuzzy K-nearest neighbor for off-line human action recognition. , 2013, , .		4
68	On Feature Selection and Rule Extraction for High Dimensional Data: A Case of Diffuse Large B-Cell Lymphomas Microarrays Classification. Mathematical Problems in Engineering, 2015, 2015, 1-12.	0.6	4
69	Optimizing support vector machine parameters using cuckoo search algorithm via cross validation. , 2016, , .		4
70	Fetal electrocardiogram extraction by independent component analysis. , 2017, , .		4
71	Lung Nodule Detection from Chest X-Ray Images Using Interval Type-2 Fuzzy Logic System. , 2018, , .		4
72	Decision Fusion Using Fuzzy Dempster-Shafer Theory. Advances in Intelligent Systems and Computing, 2019, , 115-125.	0.5	4

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73	Data reconstruction for missing electrocardiogram using linear predictive coding. , 2008, , .		3
74	Cross-substation short term load forecasting using support vector machine. , 2008, , .		3
75	Automatic Nevirapine concentration interpretation system using support vector regression. Computer Methods and Programs in Biomedicine, 2011, 101, 271-281.	2.6	3
76	Fully automatic brain segmentation for Alzheimer's disease detection from magnetic resonance images. , 2012, , .		3
77	Classification models of nondestructive acoustic response for predicting translucent mangosteens. , 2012, , .		3
78	Information Analysis of High-Dimensional Data and Applications. Mathematical Problems in Engineering, 2015, 2015, 1-2.	0.6	3
79	A novel string grammar fuzzy C-medians. , 2015, , .		3
80	VAR-GRU: A Hybrid Model for Multivariate Financial Time Series Prediction. Lecture Notes in Computer Science, 2020, , 322-332.	1.0	3
81	A comparison of NN-based and SVR-based power prediction for mobile DS/CDMA systems. , 2009, , .		2
82	Incorporating SIFT with Hard C-Means algorithm. , 2010, , .		2
83	Eye-gaze distance estimation based on gray-level intensity of image patch. , 2011, , .		2
84	Fall detection algorithm using linear prediction model. , 2013, , .		2
85	Architectural distortion detection from mammograms using support vector machine. , 2014, , .		2
86	Kinect Joints Correction Using Optical Flow for Weightlifting Videos. , 2015, , .		2
87	Person Identification from Full-Body Movement Using String Grammar Fuzzy-Possibilistic C-Medians. , 2018, , .		2
88	A string grammar possibilistic-fuzzy C-medians. Soft Computing, 2019, 23, 7637-7653.	2.1	2
89	Detection of Hard Exudates in Fundus Images Using Convolutional Neural Networks. , 2019, , .		2
90	Three-Dimensional Point Cloud Registration Using Particle Swarm Optimization. , 2021, , .		2

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91	FUZZY MULTILAYER PERCEPTRON WITH CUCKOO SEARCH. JP Journal of Heat and Mass Transfer, 2018, SV2018, 257-275.	0.1	2
92	<title>Automated white blood cell counting via classification-free granulometric methods</title>., 1999, , .		1
93	Thai Phoneme Soft Segmentation and Recognition Using Hidden Markov Models. , 2007, , .		1
94	Power prediction in reverse link for mobile DS/CDMA systems using support vector regression. , 2008, , .		1
95	Extracting route information from hand-drawn map using fuzzy vector. , 2012, , .		1
96	Cross-substation short-term load forecasting based on types of customer usage characteristics. , 2014, , .		1
97	Fully automatic cardiac T2* relaxation time estimation using marker-controlled watershed. , 2015, , .		1
98	Instance reduction for supervised learning using input-output clustering method. Journal of Central South University, 2015, 22, 4740-4748.	1.2	1
99	Facial Expression Recognition Using String Grammar Fuzzy K-Nearest Neighbor. Lecture Notes in Computer Science, 2016, , 584-596.	1.0	1
100	Learning vector quantization inference classifier in breast abnormality classification. Journal of Intelligent and Fuzzy Systems, 2018, 35, 6101-6116.	0.8	1
101	Space Independent Image Registration Using Curve-Based Method with Combination of Multiple Deformable Vector Fields. Symmetry, 2019, 11, 1210.	1.1	1
102	In vitro drug sensitivity (IDS) of patient-derived primary osteosarcoma cells as an early predictor of the clinical outcomes of osteosarcoma patients. Cancer Chemotherapy and Pharmacology, 2020, 85, 1165-1176.	1.1	1
103	Infectious Disease Relational Data Analysis Using String Grammar Non-Euclidean Relational Fuzzy C-Means. International Journal of Environmental Research and Public Health, 2021, 18, 8153.	1.2	1
104	Unexploded Ordnance Detection Using Region of Interest in Range Domain of Ground Penetrating Radar. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2007, 11, 1184-1188.	0.5	1
105	Synthetic Aperture Radar (SAR) Automatic Target Recognition (ATR) Using Fuzzy Co-occurrence Matrix Texture Features. Studies in Computational Intelligence, 2016, , 467-489.	0.7	1
106	Silicon photonic resonator for label-free bio-sensing application. , 2018, , .		1
107	INCORPORATING FUZZY SETS INTO DEMPSTER-SHAFER THEORY FOR DECISION FUSION. JP Journal of Heat and Mass Transfer, 2018, , 299-309.	0.1	1
108	Ionospheric F-Layer Critical Frequency Estimation from Digital Ionogram Analysis. , 2007, , 190-200.		1

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109	New Method of Age Estimation from Maxillary Sutures Closure in a Thai Population. Clinica Therapeutica, 2016, 167, 33-7.	0.2	1
110	X-Ray Computed Tomography for Metals Using Fourier Reconstruction. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	0
111	Centralized control system in interdomain routing environments. , 2009, , .		0
112	Visual clustering method using genetic algorithm and image manipulation. , 2011, , .		0
113	Fuzzy perceptron with pocket algorithm in postoperative patient data set. , 2014, , .		0
114	Messages from the technical program chairs. , 2016, , .		0
115	Imaginary hand movement classification using electroencephalography. , 2017, , .		0
116	Human and dog movement recognition using fuzzy inference system with automatically generated membership functions. , 2017, , .		0
117	Kinematic-based Knee Angle Correction for Gait Analysis Using Single Kinect Sensor. , 2018, , .		0
118	Smart control plane for information centric network-internet service provider networks. Journal of Central South University, 2018, 25, 2410-2422.	1.2	0
119	A twin-hyperellipsoidal support vector classifier. Journal of Intelligent and Fuzzy Systems, 2018, 35, 6141-6152.	0.8	0
120	Image-Based Silkworm Egg Classification and Counting Using Counting Neural Network. , 2019, , .		0
121	A Novel Self Organizing Feature Map for Uncertain Data. , 2019, , .		0
122	Linear Prediction-Based Reconstruction of Electrocardiogram with Premature Ventricular Contraction for Heart Rate Variability Analysis. Lecture Notes in Electrical Engineering, 2013, , 273-281.	0.3	0