Nipon Theera-Umpon

List of Publications by Year
in descending order

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	Recurrent Neural Network-Augmented Locally Adaptive Interpretable Regression for Multivariate Time-Series Forecasting. IEEE Access, 2022, 10, 11871-11885.	2.6	5
2	Automatic Programmable Bioreactor with pH Monitoring System for Tissue Engineering Application. Bioengineering, 2022, 9, 187.	1.6	5
3	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
4	Explainable Artificial Intelligence Based Framework for Non-Communicable Diseases Prediction. IEEE Access, 2021, 9, 123672-123688.	2.6	20
5	Deep Learning Feature Extraction Approach for Hematopoietic Cancer Subtype Classification. International Journal of Environmental Research and Public Health, 2021, 18, 2197.	1.2	15
6	Three-Dimensional Tooth Model Reconstruction Using Statistical Randomization-Based Particle Swarm Optimization. Applied Sciences (Switzerland), 2021, 11, 2363.	1.3	5
7	A Partially Interpretable Adaptive Softmax Regression for Credit Scoring. Applied Sciences (Switzerland), 2021, 11, 3227.	1.3	10
8	Three-Dimensional Point Cloud Registration Using Particle Swarm Optimization. , 2021, , .		2
9	Novel Rapid Protein Coating Technique for Silicon Photonic Biosensor to Improve Surface Morphology and Increase Bioreceptor Density. Coatings, 2021, 11, 595.	1.2	11
10	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
11	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
12	Hard exudate detection in retinal fundus images using supervised learning. Neural Computing and Applications, 2020, 32, 13079-13096.	3.2	17
13	Unsupervised Anomaly Detection Approach for Time-Series in Multi-Domains Using Deep Reconstruction Error. Symmetry, 2020, 12, 1251.	1.1	29
14	Deep Learning-Based Demand Forecasting for Korean Postal Delivery Service. IEEE Access, 2020, 8, 188135-188145.	2.6	9
15	XGBoost-Based Framework for Smoking-Induced Noncommunicable Disease Prediction. International Journal of Environmental Research and Public Health, 2020, 17, 6513.	1.2	50
16	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
17	VAR-GRU: A Hybrid Model for Multivariate Financial Time Series Prediction. Lecture Notes in Computer Science, 2020, , 322-332.	1.0	3
18	A string grammar possibilistic-fuzzy C-medians. Soft Computing, 2019, 23, 7637-7653.	2.1	2

#	Article	IF	Citations
19	Detection of Hard Exudates in Fundus Images Using Convolutional Neural Networks. , 2019, , .		2
20	Image-Based Silkworm Egg Classification and Counting Using Counting Neural Network. , 2019, , .		0
21	Simplified Neural Network Model Design with Sensitivity Analysis and Electricity Consumption Prediction in a Commercial Building. Energies, 2019, 12, 1201.	1.6	12
22	A Novel Self Organizing Feature Map for Uncertain Data. , 2019, , .		0
23	Space Independent Image Registration Using Curve-Based Method with Combination of Multiple Deformable Vector Fields. Symmetry, 2019, 11, 1210.	1.1	1
24	Person Identification from Ear Images Using Convolutional Neural Networks. , 2019, , .		7
25	Diagnosis of diabetic retinopathy based on holistic texture and local retinal features. Information Sciences, 2019, 475, 44-66.	4.0	17
26	Decision Fusion Using Fuzzy Dempster-Shafer Theory. Advances in Intelligent Systems and Computing, 2019, , 115-125.	0.5	4
27	Face recognition technology development with Gabor, PCA and SVM methodology under illumination normalization condition. Cluster Computing, 2018, 21, 1117-1126.	3.5	25
28	Design of Wearable Radio Frequency Identification Antenna. Wireless Personal Communications, 2018, 98, 3059-3070.	1.8	5
29	Lung Nodule Detection from Chest X-Ray Images Using Interval Type-2 Fuzzy Logic System. , 2018, , .		4
30	Kinematic-based Knee Angle Correction for Gait Analysis Using Single Kinect Sensor. , 2018, , .		0
31	Person Identification from Full-Body Movement Using String Grammar Fuzzy-Possibilistic C-Medians. , 2018, , .		2
32	Smart control plane for information centric network-internet service provider networks. Journal of Central South University, 2018, 25, 2410-2422.	1.2	0
33	Learning vector quantization inference classifier in breast abnormality classification. Journal of Intelligent and Fuzzy Systems, 2018, 35, 6101-6116.	0.8	1
34	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
35	A twin-hyperellipsoidal support vector classifier. Journal of Intelligent and Fuzzy Systems, 2018, 35, 6141-6152.	0.8	0
36	Silicon photonic resonator for label-free bio-sensing application. , 2018, , .		1

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37	FUZZY MULTILAYER PERCEPTRON WITH CUCKOO SEARCH. JP Journal of Heat and Mass Transfer, 2018, SV2018, 257-275.	0.1	2
38	INCORPORATING FUZZY SETS INTO DEMPSTER-SHAFER THEORY FOR DECISION FUSION. JP Journal of Heat and Mass Transfer, 2018, , 299-309.	0.1	1
39	Ellipsoidal support vector data description. Neural Computing and Applications, 2017, 28, 337-347.	3.2	5
40	A string grammar fuzzy-possibilistic C-medians. Applied Soft Computing Journal, 2017, 57, 684-695.	4.1	10
41	Microarray data classification using neuro-fuzzy classifier with firefly algorithm. , 2017, , .		17
42	Imaginary hand movement classification using electroencephalography. , 2017, , .		0
43	Human and dog movement recognition using fuzzy inference system with automatically generated membership functions. , 2017, , .		0
44	Fetal electrocardiogram extraction by independent component analysis. , 2017, , .		4
45	Analysis of a Similarity Measure for Non-Overlapped Data. Symmetry, 2017, 9, 68.	1.1	5
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	Top-N Recommender Systems Using Genetic Algorithm-Based Visual-Clustering Methods. Symmetry, 2016, 8, 54.	1.1	16
49	Vision-based automatic vehicle counting system using motion estimation with Taylor series approximation. , 2016, , .		7
50	Optimizing support vector machine parameters using cuckoo search algorithm via cross validation. , 2016, , .		4
51	Messages from the technical program chairs. , 2016, , .		0
52	Face recognition using string grammar fuzzy K-nearest neighbor. , 2016, , .		11
53	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
54	Facial Expression Recognition Using String Grammar Fuzzy K-Nearest Neighbor. Lecture Notes in Computer Science, 2016, , 584-596.	1.0	1

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55	Multilayer perceptron with Cuckoo search in water level prediction for flood forecasting. , 2016, , .		6
56	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
57	New Method of Age Estimation from Maxillary Sutures Closure in a Thai Population. Clinica Terapeutica, 2016, 167, 33-7.	0.2	1
58	Patch-Based Fetal Heart Chamber Segmentation in Ultrasound Sequences Using Possibilistic Clustering. , 2015, , .		8
59	Kinect Joints Correction Using Optical Flow for Weightlifting Videos. , 2015, , .		2
60	Application of support vector based methods for cervical cancer cell classification. , 2015, , .		10
61	Fully automatic cardiac T2* relaxation time estimation using marker-controlled watershed. , 2015, , .		1
62	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
63	Information Analysis of High-Dimensional Data and Applications. Mathematical Problems in Engineering, 2015, 2015, 1-2.	0.6	3
64	Instance reduction for supervised learning using input-output clustering method. Journal of Central South University, 2015, 22, 4740-4748.	1.2	1
65	A novel string grammar fuzzy C-medians. , 2015, , .		3
66	Fuzzy perceptron with pocket algorithm in postoperative patient data set. , 2014, , .		0
67	Cross-substation short-term load forecasting based on types of customer usage characteristics. , 2014, , .		1
68	Automatic cervical cell segmentation and classification in Pap smears. Computer Methods and Programs in Biomedicine, 2014, 113, 539-556.	2.6	205
69	Dental fluorosis classification using multi-prototypes from fuzzy C-means clustering. , 2014, , .		5
70	Architectural distortion detection from mammograms using support vector machine. , 2014, , .		2
71	Applying memetic algorithm-based clustering to recommender system with high sparsity problem. Journal of Central South University, 2014, 21, 3541-3550.	1.2	11
72	Fall detection algorithm using linear prediction model. , 2013, , .		2

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73	Thai sign language translation using Scale Invariant Feature Transform and Hidden Markov Models. Pattern Recognition Letters, 2013, 34, 1291-1298.	2.6	19
74	Multi-prototype fuzzy clustering with fuzzy K-nearest neighbor for off-line human action recognition. , 2013, , .		4
75	A Novel Fuzzy Co-occurrence Matrix for Texture Feature Extraction. Lecture Notes in Computer Science, 2013, , 246-257.	1.0	7
76	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
77	Automatic segmentation and degree identification in burn color images. , 2012, , .		32
78	Fully automatic brain segmentation for Alzheimer's disease detection from magnetic resonance images. , 2012, , .		3
79	Extracting route information from hand-drawn map using fuzzy vector. , 2012, , .		1
80	Classification models of nondestructive acoustic response for predicting translucent mangosteens. , 2012, , .		3
81	Thai sign language translation system using upright speed-up robust feature and dynamic time warping. , 2012, , .		4
82	Thai sign language translation system using upright speed-up robust feature and c-means clustering. , 2012, , .		5
83	Electrocardiogram reconstruction using support vector regression. , 2012, , .		7
84	Visual clustering method using genetic algorithm and image manipulation. , 2011, , .		0
85	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
86	Automatic Nevirapine concentration interpretation system using support vector regression. Computer Methods and Programs in Biomedicine, 2011, 101, 271-281.	2.6	3
87	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
88	Phoneme and tonal accent recognition for Thai speech. Expert Systems With Applications, 2011, 38, 13254-13259.	4.4	17
89	Navigation system of mobile robot in an uncertain environment using type-2 fuzzy modelling. , 2011, , .		8
90	Eye-gaze distance estimation based on gray-level intensity of image patch. , 2011, , .		2

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91	Relationships between serum biomarker levels and clinical presentation of human osteosarcomas. Asian Pacific Journal of Cancer Prevention, 2011, 12, 1717-22.	0.5	17
92	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
93	Incorporating SIFT with Hard C-Means algorithm. , 2010, , .		2
94	A novel neuro-fuzzy method for linguistic feature selection and rule-based classification. , 2010, , .		26
95	Automatic detection of electricity pylons in aerial video sequences. , 2010, , .		12
96	Microcalcification detection in mammograms using interval type-2 fuzzy logic system with automatic membership function generation. , 2010, , .		11
97	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
98	A comparison of NN-based and SVR-based power prediction for mobile DS/CDMA systems. , 2009, , .		2
99	Runoff forecasting using fuzzy support vector regression. , 2009, , .		6
100	Centralized control system in interdomain routing environments. , 2009, , .		0
101	Cervical Cell Classification using Fourier Transform. IFMBE Proceedings, 2009, , 476-480.	0.2	9
102	Interpretation of nevirapine concentration from immunochromatographic strip test using support vector regression. , 2008, , .		14
103	Data reconstruction for missing electrocardiogram using linear predictive coding. , 2008, , .		3
104	Cross-substation short term load forecasting using support vector machine. , 2008, , .		3
105	Left ventricular segmentation of cardiac magnetic resonance images using a novel edge following technique. , 2008, , .		4
106	River basin flood prediction using support vector machines. , 2008, , .		6
107	Power prediction in reverse link for mobile DS/CDMA systems using support vector regression. , 2008, , .		1
108	Thai Sign Language Translation Using Fuzzy C-Means and Scale Invariant Feature Transform. Lecture Notes in Computer Science, 2008, , 1107-1119.	1.0	11

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109	Thai Phoneme Soft Segmentation and Recognition Using Hidden Markov Models. , 2007, , .		1
110	Microcalcification Detection in Mammograms Using Interval Type-2 Fuzzy Logic System. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	5
111	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
112	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
113	Ionospheric F-Layer Critical Frequency Estimation from Digital Ionogram Analysis. , 2007, , 190-200.		1
114	X-Ray Computed Tomography for Metals Using Fourier Reconstruction. Industrial Electronics Society (IECON), Annual Conference of IEEE, 2006, , .	0.0	0
115	White Blood Cell Segmentation and Classification in Microscopic Bone Marrow Images. Lecture Notes in Computer Science, 2005, , 787-796.	1.0	57
116	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
117	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
118	<title>Detecting landmines using weighted density distribution function features</title>. , 2001, , .		6
119	Non-homothetic granulometric mixing theory with application to blood cell counting. Pattern Recognition, 2001, 34, 2547-2560.	5.1	20
120	Counting white blood cells using morphological granulometries. Journal of Electronic Imaging, 2000, 9, 170.	0.5	31
121	<title>Automated white blood cell counting via classification-free granulometric methods</title>. , 1999, , .		1
122	<title>Detection and classification of MSTAR objects via morphological shared-weight neural networks</title>. , 1998, , .		13