

# Sansanee Auephanwiriyaikul

## List of Publications by Year in descending order

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Version: 2024-02-01

91  
papers

967  
citations

840776  
11  
h-index

552781  
26  
g-index

95  
all docs

95  
docs citations

95  
times ranked

846  
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.	4.7	205
2	Generalized Choquet fuzzy integral fusion. Information Fusion, 2002, 3, 69-85.	19.1	104
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.	4.2	69
4	Bone Age Assessment in Young Children Using Automatic Carpal Bone Feature Extraction and Support Vector Regression. Journal of Digital Imaging, 2011, 24, 1044-1058.	2.9	49
5	Analysis and efficient implementation of a linguistic fuzzy c-means. IEEE Transactions on Fuzzy Systems, 2002, 10, 563-582.	9.8	39
6	Automatic segmentation and degree identification in burn color images. , 2012, , .		32
7	A novel neuro-fuzzy method for linguistic feature selection and rule-based classification. , 2010, , .		26
8	Thai sign language translation using Scale Invariant Feature Transform and Hidden Markov Models. Pattern Recognition Letters, 2013, 34, 1291-1298.	4.2	19
9	Phoneme and tonal accent recognition for Thai speech. Expert Systems With Applications, 2011, 38, 13254-13259.	7.6	17
10	Microarray data classification using neuro-fuzzy classifier with firefly algorithm. , 2017, , .		17
11	Diagnosis of diabetic retinopathy based on holistic texture and local retinal features. Information Sciences, 2019, 475, 44-66.	6.9	17
12	Hard exudate detection in retinal fundus images using supervised learning. Neural Computing and Applications, 2020, 32, 13079-13096.	5.6	17
13	Top-N Recommender Systems Using Genetic Algorithm-Based Visual-Clustering Methods. Symmetry, 2016, 8, 54.	2.2	16
14	Interpretation of nevirapine concentration from immunochromatographic strip test using support vector regression. , 2008, , .		14
15	Rice yield prediction using a Support Vector Regression method. , 2008, , .		13
16	Colon Tumor Microarray Classification Using Neural Network with Feature Selection and Rule-Based Classification. Lecture Notes in Electrical Engineering, 2010, , 363-372.	0.4	13
17	Automatic detection of electricity pylons in aerial video sequences. , 2010, , .		12
18	Microcalcification detection in mammograms using interval type-2 fuzzy logic system with automatic membership function generation. , 2010, , .		11

#	ARTICLE	IF	CITATIONS
19	Applying memetic algorithm-based clustering to recommender system with high sparsity problem. Journal of Central South University, 2014, 21, 3541-3550.	3.0	11
20	Face recognition using string grammar fuzzy K-nearest neighbor. , 2016, , .		11
21	Thai Sign Language Translation Using Fuzzy C-Means and Scale Invariant Feature Transform. Lecture Notes in Computer Science, 2008, , 1107-1119.	1.3	11
22	Application of support vector based methods for cervical cancer cell classification. , 2015, , .		10
23	A string grammar fuzzy-possibilistic C-medians. Applied Soft Computing Journal, 2017, 57, 684-695.	7.2	10
24	New fuzzy set tools to aid in predictive sensor fusion. , 2000, 4038, 1497.		9
25	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.	4.7	9
26	Cervical Cell Classification using Fourier Transform. IFMBE Proceedings, 2009, , 476-480.	0.3	9
27	Navigation system of mobile robot in an uncertain environment using type-2 fuzzy modelling. , 2011, , .		8
28	Patch-Based Fetal Heart Chamber Segmentation in Ultrasound Sequences Using Possibilistic Clustering. , 2015, , .		8
29	String Grammar Unsupervised Possibilistic Fuzzy C-Medians for Gait Pattern Classification in Patients with Neurodegenerative Diseases. Computational Intelligence and Neuroscience, 2018, 2018, 1-10.	1.7	8
30	Electrocardiogram reconstruction using support vector regression. , 2012, , .		7
31	A Novel Fuzzy Co-occurrence Matrix for Texture Feature Extraction. Lecture Notes in Computer Science, 2013, , 246-257.	1.3	7
32	Vision-based automatic vehicle counting system using motion estimation with Taylor series approximation. , 2016, , .		7
33	A Novel String Grammar Unsupervised Possibilistic C-Medians Algorithm for Sign Language Translation Systems. Symmetry, 2017, 9, 321.	2.2	7
34	Person Identification from Ear Images Using Convolutional Neural Networks. , 2019, , .		7
35	Experiments in predictive sensor fusion. , 2001, 4394, 1047.		6
36	River basin flood prediction using support vector machines. , 2008, , .		6

#	ARTICLE	IF	CITATIONS
37	Runoff forecasting using fuzzy support vector regression. , 2009, , .		6
38	Multilayer perceptron with Cuckoo search in water level prediction for flood forecasting. , 2016, , .		6
39	Microcalcification Detection in Mammograms Using Interval Type-2 Fuzzy Logic System. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	5
40	Thai sign language translation system using upright speed-up robust feature and c-means clustering. , 2012, , .		5
41	Dental fluorosis classification using multi-prototypes from fuzzy C-means clustering. , 2014, , .		5
42	Ellipsoidal support vector data description. Neural Computing and Applications, 2017, 28, 337-347.	5.6	5
43	Three-Dimensional Tooth Model Reconstruction Using Statistical Randomization-Based Particle Swarm Optimization. Applied Sciences (Switzerland), 2021, 11, 2363.	2.5	5
44	Automatic Programmable Bioreactor with pH Monitoring System for Tissue Engineering Application. Bioengineering, 2022, 9, 187.	3.5	5
45	Left ventricular segmentation of cardiac magnetic resonance images using a novel edge following technique. , 2008, , .		4
46	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.	0.2	4
47	Thai sign language translation system using upright speed-up robust feature and dynamic time warping. , 2012, , .		4
48	Multi-prototype fuzzy clustering with fuzzy K-nearest neighbor for off-line human action recognition. , 2013, , .		4
49	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.	1.1	4
50	Optimizing support vector machine parameters using cuckoo search algorithm via cross validation. , 2016, , .		4
51	Fetal electrocardiogram extraction by independent component analysis. , 2017, , .		4
52	Decision Fusion Using Fuzzy Dempster-Shafer Theory. Advances in Intelligent Systems and Computing, 2019, , 115-125.	0.6	4
53	Data reconstruction for missing electrocardiogram using linear predictive coding. , 2008, , .		3
54	Automatic Nevirapine concentration interpretation system using support vector regression. Computer Methods and Programs in Biomedicine, 2011, 101, 271-281.	4.7	3

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55	Fully automatic brain segmentation for Alzheimer's disease detection from magnetic resonance images. , 2012, , .		3
56	A novel string grammar fuzzy C-medians. , 2015, , .		3
57	VAR-GRU: A Hybrid Model for Multivariate Financial Time Series Prediction. Lecture Notes in Computer Science, 2020, , 322-332.	1.3	3
58	An Investigation of a Linguistic Perceptron in a Nonlinear Decision Boundary Problem. , 2006, , .		2
59	A comparison of NN-based and SVR-based power prediction for mobile DS/CDMA systems. , 2009, , .		2
60	Incorporating SIFT with Hard C-Means algorithm. , 2010, , .		2
61	Eye-gaze distance estimation based on gray-level intensity of image patch. , 2011, , .		2
62	Fall detection algorithm using linear prediction model. , 2013, , .		2
63	Architectural distortion detection from mammograms using support vector machine. , 2014, , .		2
64	Kinect Joints Correction Using Optical Flow for Weightlifting Videos. , 2015, , .		2
65	Person Identification from Full-Body Movement Using String Grammar Fuzzy-Possibilistic C-Medians. , 2018, , .		2
66	A string grammar possibilistic-fuzzy C-medians. Soft Computing, 2019, 23, 7637-7653.	3.6	2
67	Detection of Hard Exudates in Fundus Images Using Convolutional Neural Networks. , 2019, , .		2
68	Three-Dimensional Point Cloud Registration Using Particle Swarm Optimization. , 2021, , .		2
69	Thai Phoneme Soft Segmentation and Recognition Using Hidden Markov Models. , 2007, , .		1
70	Power prediction in reverse link for mobile DS/CDMA systems using support vector regression. , 2008, , .		1
71	Cross-substation short-term load forecasting based on types of customer usage characteristics. , 2014, , .		1
72	Fully automatic cardiac T2* relaxation time estimation using marker-controlled watershed. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
73	Instance reduction for supervised learning using input-output clustering method. Journal of Central South University, 2015, 22, 4740-4748.	3.0	1
74	Facial Expression Recognition Using String Grammar Fuzzy K-Nearest Neighbor. Lecture Notes in Computer Science, 2016, , 584-596.	1.3	1
75	Learning vector quantization inference classifier in breast abnormality classification. Journal of Intelligent and Fuzzy Systems, 2018, 35, 6101-6116.	1.4	1
76	Space Independent Image Registration Using Curve-Based Method with Combination of Multiple Deformable Vector Fields. Symmetry, 2019, 11, 1210.	2.2	1
77	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.	2.6	1
78	Synthetic Aperture Radar (SAR) Automatic Target Recognition (ATR) Using Fuzzy Co-occurrence Matrix Texture Features. Studies in Computational Intelligence, 2016, , 467-489.	0.9	1
79	New Method of Age Estimation from Maxillary Sutures Closure in a Thai Population. Clinica Terapeutica, 2016, 167, 33-7.	0.3	1
80	Centralized control system in interdomain routing environments. , 2009, , .		0
81	Visual clustering method using genetic algorithm and image manipulation. , 2011, , .		0
82	Fuzzy perceptron with pocket algorithm in postoperative patient data set. , 2014, , .		0
83	Imaginary hand movement classification using electroencephalography. , 2017, , .		0
84	Human and dog movement recognition using fuzzy inference system with automatically generated membership functions. , 2017, , .		0
85	Kinematic-based Knee Angle Correction for Gait Analysis Using Single Kinect Sensor. , 2018, , .		0
86	Smart control plane for information centric network-internet service provider networks. Journal of Central South University, 2018, 25, 2410-2422.	3.0	0
87	A twin-hyperellipsoidal support vector classifier. Journal of Intelligent and Fuzzy Systems, 2018, 35, 6141-6152.	1.4	0
88	Image-Based Silkworm Egg Classification and Counting Using Counting Neural Network. , 2019, , .		0
89	A Novel Self Organizing Feature Map for Uncertain Data. , 2019, , .		0
90	Special issue on “Green and Human Information Technology 2019” Neural Computing and Applications, 2020, 32, 13077-13078.	5.6	0

#	ARTICLE	IF	CITATIONS
91	Linear Prediction-Based Reconstruction of Electrocardiogram with Premature Ventricular Contraction for Heart Rate Variability Analysis. Lecture Notes in Electrical Engineering, 2013, , 273-281.	0.4	0