

Sansanee Auephanwiriyaikul

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

967
citations

840119

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h-index

552369

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. | 2.6 | 205 |
| 2 | Generalized Choquet fuzzy integral fusion. Information Fusion, 2002, 3, 69-85. | 11.7 | 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. | 2.5 | 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. | 1.6 | 49 |
| 5 | Analysis and efficient implementation of a linguistic fuzzy c-means. IEEE Transactions on Fuzzy Systems, 2002, 10, 563-582. | 6.5 | 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. | 2.6 | 19 |
| 9 | Phoneme and tonal accent recognition for Thai speech. Expert Systems With Applications, 2011, 38, 13254-13259. | 4.4 | 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. | 4.0 | 17 |
| 12 | Hard exudate detection in retinal fundus images using supervised learning. Neural Computing and Applications, 2020, 32, 13079-13096. | 3.2 | 17 |
| 13 | Top-N Recommender Systems Using Genetic Algorithm-Based Visual-Clustering Methods. Symmetry, 2016, 8, 54. | 1.1 | 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. | 0.3 | 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. | 1.2 | 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. | 1.0 | 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. | 4.1 | 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. | 2.6 | 9 |
| 26 | Cervical Cell Classification using Fourier Transform. IFMBE Proceedings, 2009, , 476-480. | 0.2 | 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. | 1.1 | 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. | 1.0 | 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. | 1.1 | 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. | 3.2 | 5 |
| 43 | Three-Dimensional Tooth Model Reconstruction Using Statistical Randomization-Based Particle Swarm Optimization. Applied Sciences (Switzerland), 2021, 11, 2363. | 1.3 | 5 |
| 44 | Automatic Programmable Bioreactor with pH Monitoring System for Tissue Engineering Application. Bioengineering, 2022, 9, 187. | 1.6 | 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. | 0.1 | 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. | 0.6 | 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. | 0.5 | 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. | 2.6 | 3 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 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. | 1.0 | 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. | 2.1 | 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 |

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|----|---|-----|-----------|
| 73 | Instance reduction for supervised learning using input-output clustering method. Journal of Central South University, 2015, 22, 4740-4748. | 1.2 | 1 |
| 74 | Facial Expression Recognition Using String Grammar Fuzzy K-Nearest Neighbor. Lecture Notes in Computer Science, 2016, , 584-596. | 1.0 | 1 |
| 75 | Learning vector quantization inference classifier in breast abnormality classification. Journal of Intelligent and Fuzzy Systems, 2018, 35, 6101-6116. | 0.8 | 1 |
| 76 | Space Independent Image Registration Using Curve-Based Method with Combination of Multiple Deformable Vector Fields. Symmetry, 2019, 11, 1210. | 1.1 | 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. | 1.2 | 1 |
| 78 | Synthetic Aperture Radar (SAR) Automatic Target Recognition (ATR) Using Fuzzy Co-occurrence Matrix Texture Features. Studies in Computational Intelligence, 2016, , 467-489. | 0.7 | 1 |
| 79 | New Method of Age Estimation from Maxillary Sutures Closure in a Thai Population. Clinica Terapeutica, 2016, 167, 33-7. | 0.2 | 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. | 1.2 | 0 |
| 87 | A twin-hyperellipsoidal support vector classifier. Journal of Intelligent and Fuzzy Systems, 2018, 35, 6141-6152. | 0.8 | 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. | 3.2 | 0 |

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|----|---|-----|-----------|
| 91 | Linear Prediction-Based Reconstruction of Electrocardiogram with Premature Ventricular Contraction for Heart Rate Variability Analysis. Lecture Notes in Electrical Engineering, 2013, , 273-281. | 0.3 | 0 |