

Serestina Viriri

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

139
papers

677
citations

12
h-index

21
g-index

161
ext. papers

1,078
ext. citations

1.7
avg, IF

5.63
L-index

| # | Paper | IF | Citations |
|-----|--|-----|-----------|
| 139 | Automatic Baggage Threat Detection Using Deep Attention Networks. <i>Communications in Computer and Information Science</i> , 2022 , 156-173 | 0.3 | |
| 138 | A Patch-Based Convolutional Neural Network for Localized MRI Brain Segmentation. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2022 , 18-32 ^{0.2} | | |
| 137 | Long Short-Term Memory Recurrent Neural Network for Automatic Speech Recognition. <i>IEEE Access</i> , 2022 , 10, 30069-30079 | 3.5 | 3 |
| 136 | Plant Diseases Detection and Classification Using Transfer Learning. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2022 , 150-166 | 0.2 | |
| 135 | A Systematic Review of Deep Learning Techniques for Tuberculosis Detection From Chest Radiograph.. <i>Frontiers in Medicine</i> , 2022 , 9, 830515 | 4.9 | 0 |
| 134 | A Survey of Dental Caries Segmentation and Detection Techniques.. <i>Scientific World Journal, The</i> , 2022 , 2022, 8415705 | 2.2 | 1 |
| 133 | Underwater Image Enhancement Using Adaptive Algorithms. <i>Lecture Notes in Computer Science</i> , 2021 , 316-326 | 0.9 | |
| 132 | Multilabel convolution neural network for facial expression recognition and ordinal intensity estimation.. <i>PeerJ Computer Science</i> , 2021 , 7, e736 | 2.7 | 2 |
| 131 | Automatic Blob Detection for Dental Caries. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 9232 | 2.6 | 4 |
| 130 | A Probabilistic-Based Deep Learning Model for Skin Lesion Segmentation. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3025 | 2.6 | 5 |
| 129 | Classification of Hematoxylin and Eosin-Stained Breast Cancer Histology Microscopy Images Using Transfer Learning with EfficientNets. <i>Computational Intelligence and Neuroscience</i> , 2021 , 2021, 5580914 ³ | | 12 |
| 128 | Detection of COVID-19 from CT Lung Scans Using Transfer Learning. <i>Computational Intelligence and Neuroscience</i> , 2021 , 2021, 5527923 | 3 | 8 |
| 127 | Facial Expression Recognition of Instructor Using Deep Features and Extreme Learning Machine. <i>Computational Intelligence and Neuroscience</i> , 2021 , 2021, 5570870 | 3 | 7 |
| 126 | Deep Learning Approach for Medical Image Analysis. <i>Computational Intelligence and Neuroscience</i> , 2021 , 2021, 1-9 | 3 | 8 |
| 125 | Deep learning approach for facial age classification: a survey of the state-of-the-art. <i>Artificial Intelligence Review</i> , 2021 , 54, 179-213 | 9.7 | 9 |
| 124 | Deep learning techniques for skin lesion analysis and melanoma cancer detection: a survey of state-of-the-art. <i>Artificial Intelligence Review</i> , 2021 , 54, 811-841 | 9.7 | 48 |
| 123 | Enhanced Convolutional Neural Network for Age Estimation. <i>Lecture Notes in Computer Science</i> , 2021 , 385-394 | 0.9 | |

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| 122 | Skeletal Age Estimation from Hand Radiographs Using Ensemble Deep Learning. <i>Lecture Notes in Computer Science</i> , 2021 , 173-183 | 0.9 | 0 |
| 121 | Deep Learning for Age Estimation Using EfficientNet. <i>Lecture Notes in Computer Science</i> , 2021 , 407-419 | 0.9 | 2 |
| 120 | . <i>IEEE Access</i> , 2021 , 1-1 | 3.5 | 2 |
| 119 | Deep Learning for Brain Tumor Segmentation: A Survey of State-of-the-Art. <i>Journal of Imaging</i> , 2021 , 7, | 3.1 | 21 |
| 118 | Dropout Regularization for Automatic Segmented Dental Images. <i>Communications in Computer and Information Science</i> , 2021 , 254-265 | 0.3 | |
| 117 | Remote Sensing Scene Classification Based on Effective Feature Learning by Deep Residual Networks. <i>Lecture Notes in Computer Science</i> , 2021 , 320-336 | 0.9 | |
| 116 | Deep Learning with Optimization Techniques for the Classification of Spoken English Digit. <i>Lecture Notes in Computer Science</i> , 2021 , 494-507 | 0.9 | 2 |
| 115 | Pancreatic Cancer Survival Prediction: A Survey of the State-of-the-Art. <i>Computational and Mathematical Methods in Medicine</i> , 2021 , 2021, 1188414 | 2.8 | 2 |
| 114 | Contrast Enhancement in Deep Convolutional Neural Networks for Segmentation of Retinal Blood Vessels. <i>Communications in Computer and Information Science</i> , 2021 , 278-290 | 0.3 | 1 |
| 113 | Spectral Analysis for Automatic Speech Recognition and Enhancement. <i>Lecture Notes in Computer Science</i> , 2021 , 245-254 | 0.9 | 2 |
| 112 | Ensemble of Convolution Neural Networks for Automatic Tuberculosis Classification. <i>Lecture Notes in Computer Science</i> , 2021 , 549-559 | 0.9 | 1 |
| 111 | Towards Exploiting Convolutional Features for Remote Sensing Images Scene Classification. <i>Communications in Computer and Information Science</i> , 2021 , 266-277 | 0.3 | |
| 110 | Dental Images' Segmentation Using Threshold Connected Component Analysis.. <i>Computational Intelligence and Neuroscience</i> , 2021 , 2021, 2921508 | 3 | 0 |
| 109 | Ensemble of EfficientNets for the Diagnosis of Tuberculosis.. <i>Computational Intelligence and Neuroscience</i> , 2021 , 2021, 9790894 | 3 | 1 |
| 108 | Enhanced Convolutional Neural Networks for Segmentation of Retinal Blood Vessel Image 2020 , | | 4 |
| 107 | Deeply Learned Classifiers for Age and Gender Predictions of Unfiltered Faces. <i>Scientific World Journal, The</i> , 2020 , 2020, 1289408 | 2.2 | 17 |
| 106 | Deep Convolutional Network-Based Framework for Melanoma Lesion Detection and Segmentation. <i>Lecture Notes in Computer Science</i> , 2020 , 51-62 | 0.9 | 1 |
| 105 | Retinal Image Segmentation Through Valley Emphasis Thresholding of the Gabor Filter Response. <i>Lecture Notes in Computer Science</i> , 2020 , 516-527 | 0.9 | 0 |

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| 104 | A Deep Learning Approach for Automatic Segmentation of Dental Images. <i>Lecture Notes in Computer Science</i> , 2020 , 143-152 | 0.9 | 0 |
| 103 | Melanoma Skin Cancer Classification Using Transfer Learning. <i>Communications in Computer and Information Science</i> , 2020 , 287-297 | 0.3 | 0 |
| 102 | Skin Lesion Segmentation Techniques Based on Markov Random Field. <i>Lecture Notes in Computer Science</i> , 2020 , 210-220 | 0.9 | |
| 101 | Skeletal Age Estimation from Hand Radiographs Using Transfer Learning. <i>Lecture Notes in Computer Science</i> , 2020 , 165-176 | 0.9 | |
| 100 | Skin Lesion Segmentation Using Local Binary Convolution-Deconvolution Architecture. <i>Image Analysis and Stereology</i> , 2020 , 39, 169-185 | 1 | 3 |
| 99 | Macroscopic Skin Lesion Segmentation Using GrabCut. <i>Lecture Notes in Computer Science</i> , 2020 , 528-539 | 0.9 | 1 |
| 98 | Face Expression Recognition using Convolution Neural Network (CNN) Models. <i>International Journal of Grid Computing & Applications</i> , 2020 , 11, 1-11 | 1 | 2 |
| 97 | Scene Classification of Remote Sensing Images Based on ConvNet Features and Multi-grained Forest. <i>Lecture Notes in Computer Science</i> , 2020 , 731-740 | 0.9 | 1 |
| 96 | Facial Expression Recognition and Ordinal Intensity Estimation: A Multilabel Learning Approach. <i>Lecture Notes in Computer Science</i> , 2020 , 581-592 | 0.9 | |
| 95 | Deep Forest Approach for Facial Expression Recognition. <i>Lecture Notes in Computer Science</i> , 2020 , 149-161 | 0.9 | 1 |
| 94 | Random Forests with a Steepend Gini-Index Split Function and Feature Coherence Injection. <i>Lecture Notes in Computer Science</i> , 2020 , 255-272 | 0.9 | |
| 93 | Dynamic Local Ternary Patterns for Gender Identification Using Facial Components. <i>Lecture Notes in Computer Science</i> , 2020 , 133-141 | 0.9 | 1 |
| 92 | Face-Based Age and Gender Classification Using Deep Learning Model. <i>Lecture Notes in Computer Science</i> , 2020 , 125-137 | 0.9 | 2 |
| 91 | Diagnosing Tuberculosis Using Deep Convolutional Neural Network. <i>Lecture Notes in Computer Science</i> , 2020 , 151-161 | 0.9 | 2 |
| 90 | Tuberculosis Abnormality Detection in Chest X-Rays: A Deep Learning Approach. <i>Lecture Notes in Computer Science</i> , 2020 , 121-132 | 0.9 | 4 |
| 89 | Exploration of Ear Biometrics with Deep Learning. <i>Lecture Notes in Computer Science</i> , 2020 , 25-35 | 0.9 | 1 |
| 88 | Pre-trained Convolutional Neural Network for the Diagnosis of Tuberculosis. <i>Lecture Notes in Computer Science</i> , 2020 , 558-569 | 0.9 | 4 |
| 87 | Deep Learning-Based System for Automatic Melanoma Detection. <i>IEEE Access</i> , 2020 , 8, 7160-7172 | 3.5 | 37 |

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| 86 | Effective Processing of Convolutional Neural Networks for Computer Vision: A Tutorial and Survey. <i>IETE Technical Review (Institution of Electronics and Telecommunication Engineers, India)</i> , 2020 , 1-14 | 1.5 | 1 |
| 85 | . <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020 , 13, 3644-3655 | 4.7 | 2 |
| 84 | Agglomerative Clustering and Residual-VLAD Encoding for Human Action Recognition. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4412 | 2.6 | 1 |
| 83 | Skin Lesion Segmentation Using Stochastic Region-Merging and Pixel-Based Markov Random Field. <i>Symmetry</i> , 2020 , 12, 1224 | 2.7 | 8 |
| 82 | FCN-Based DenseNet Framework for Automated Detection and Classification of Skin Lesions in Dermoscopy Images. <i>IEEE Access</i> , 2020 , 8, 150377-150396 | 3.5 | 26 |
| 81 | A Lightweight Convolutional Neural Network for Real and Apparent Age Estimation in Unconstrained Face Images. <i>IEEE Access</i> , 2020 , 8, 162800-162808 | 3.5 | 1 |
| 80 | Adaptive Deep Co-Occurrence Feature Learning Based on Classifier-Fusion for Remote Sensing Scene Classification. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2020 , 1-1 | 4.7 | 3 |
| 79 | A conceptual comparison of several metaheuristic algorithms on continuous optimisation problems. <i>Neural Computing and Applications</i> , 2020 , 32, 6207-6251 | 4.8 | 43 |
| 78 | 2019 , | | 4 |
| 77 | Local Descriptors Parameter characterization with Fisher vectors for remote sensing images 2019 , | | 2 |
| 76 | Justice, poverty, and electricity decarbonization. <i>Electricity Journal</i> , 2019 , 32, 47-51 | 2.6 | 23 |
| 75 | Deep Residual Learning for Human Identification Based on Facial Landmarks. <i>Lecture Notes in Computer Science</i> , 2019 , 61-72 | 0.9 | |
| 74 | A Review of Local, Holistic and Deep Learning Approaches in Facial Expressions Recognition 2019 , | | 9 |
| 73 | Skin Cancer Detection from Macroscopic Images 2019 , | | 3 |
| 72 | 2019 , | | 10 |
| 71 | Deep Learning Model for Skin Lesion Segmentation: Fully Convolutional Network. <i>Lecture Notes in Computer Science</i> , 2019 , 232-242 | 0.9 | 2 |
| 70 | Deep Learning Using Bayesian Optimization for Facial Age Estimation. <i>Lecture Notes in Computer Science</i> , 2019 , 243-254 | 0.9 | 3 |
| 69 | Fully Convolutional Encoder-Decoder Architecture (FCEDA) for Skin Lesions Segmentation. <i>Lecture Notes in Computer Science</i> , 2019 , 426-437 | 0.9 | 1 |

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| 68 | OntoMetrics Evaluation of Quality of e-Government Ontologies. <i>Lecture Notes in Computer Science</i> , 2019 , 189-203 | 0.9 | 3 |
| 67 | Facial Expression Recognition Using Directional Gradient Local Ternary Patterns. <i>Lecture Notes in Computer Science</i> , 2019 , 87-96 | 0.9 | |
| 66 | Image Preprocessing Techniques for Facial Expression Recognition with Canny and Kirsch Edge Detectors. <i>Lecture Notes in Computer Science</i> , 2019 , 85-96 | 0.9 | 1 |
| 65 | Component-Based Gender Identification Using Local Binary Patterns. <i>Lecture Notes in Computer Science</i> , 2019 , 307-315 | 0.9 | 0 |
| 64 | Exploring the Impact of Purity Gap Gain on the Efficiency and Effectiveness of Random Forest Feature Selection. <i>Lecture Notes in Computer Science</i> , 2019 , 340-352 | 0.9 | 0 |
| 63 | Skin Lesion Segmentation Based on Region-Edge Markov Random Field. <i>Lecture Notes in Computer Science</i> , 2019 , 407-418 | 0.9 | 2 |
| 62 | Age Estimation of Real-Time Faces Using Convolutional Neural Network. <i>Lecture Notes in Computer Science</i> , 2019 , 316-327 | 0.9 | 3 |
| 61 | Fusion of LBP and Hu-Moments with Fisher Vectors in Remote Sensing Imagery. <i>Lecture Notes in Computer Science</i> , 2019 , 403-413 | 0.9 | 1 |
| 60 | An Enhanced Deep Learning Framework for Skin Lesions Segmentation. <i>Lecture Notes in Computer Science</i> , 2019 , 414-425 | 0.9 | 6 |
| 59 | Age Group and Gender Classification of Unconstrained Faces. <i>Lecture Notes in Computer Science</i> , 2019 , 418-429 | 0.9 | 4 |
| 58 | Caries Detection in Non-standardized Periapical Dental X-Rays. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2019 , 143-152 | 0.3 | 2 |
| 57 | Response to Todd, De Groot, Mose, McCauley and Heffron's critique of Examining energy sufficiency and energy mobility in the global south through the energy justice framework. <i>Energy Policy</i> , 2019 , 133, 110917 | 7.2 | 3 |
| 56 | A spy search mechanism for memetic algorithm in dynamic environments. <i>Applied Soft Computing Journal</i> , 2019 , 75, 203-214 | 7.5 | 2 |
| 55 | An income-reflective scalable energy level transition system for low/middle income households. <i>Sustainable Cities and Society</i> , 2019 , 45, 172-186 | 10.1 | 8 |
| 54 | Examining energy sufficiency and energy mobility in the global south through the energy justice framework. <i>Energy Policy</i> , 2018 , 119, 68-76 | 7.2 | 42 |
| 53 | Automatic lung segmentation based on Graph Cut using a distance-constrained energy. <i>IET Computer Vision</i> , 2018 , 12, 609-615 | 1.4 | 8 |
| 52 | A Smart Grid Framework for Optimally Integrating Supply-Side, Demand-Side and Transmission Line Management Systems. <i>Energies</i> , 2018 , 11, 1038 | 3.1 | 5 |
| 51 | Symbiotic organisms search algorithm for the unrelated parallel machines scheduling with sequence-dependent setup times. <i>PLoS ONE</i> , 2018 , 13, e0200030 | 3.7 | 21 |

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|----|--|-----|---|
| 50 | Facial Expression Recognition: A Survey on Local Binary and Local Directional Patterns. <i>Lecture Notes in Computer Science, 2018, 513-522</i> | 0.9 | 3 |
| 49 | Face verification across age progression: A survey of the state-of-the-art 2018, | | 1 |
| 48 | A survey on facial recognition based on local directional and local binary patterns 2018, | | 8 |
| 47 | Gender classification based on fusion of facial components features 2018, | | 1 |
| 46 | Online signature verification using hybrid transform features 2018, | | 1 |
| 45 | Gender identification from facial images using global features 2018, | | 3 |
| 44 | PLANT SPECIE CLASSIFICATION USING SINUOSITY COEFFICIENTS OF LEAVES. <i>Image Analysis and Stereology, 2018, 37, 119</i> | 1 | 5 |
| 43 | Skin Lesion Segmentation Using Enhanced Unified Markov Random Field. <i>Lecture Notes in Computer Science, 2018, 331-340</i> | 0.9 | 2 |
| 42 | Selecting Salient Features from Facial Components for Face Recognition. <i>Lecture Notes in Computer Science, 2018, 63-75</i> | 0.9 | 1 |
| 41 | Purity and Out of Bag Confidence Metrics for Random Forest Weighting. <i>Lecture Notes in Computer Science, 2018, 491-502</i> | 0.9 | 1 |
| 40 | Unsupervised Caries Detection in Non-standardized Periapical Dental X-Rays. <i>Lecture Notes in Computer Science, 2018, 329-340</i> | 0.9 | 1 |
| 39 | Facial Expression Recognition using Local Directional Pattern variants and Deep Learning 2018, | | 1 |
| 38 | Gender Classification Based on Facial Shape and Texture Features. <i>Lecture Notes in Computer Science, 2018, 157-166</i> | 0.9 | 0 |
| 37 | Skin Cancer Segmentation Using a Unified Markov Random Field. <i>Lecture Notes in Computer Science, 2018, 25-33</i> | 0.9 | 2 |
| 36 | Skin Lesion Images Segmentation: A Survey of the State-of-the-Art. <i>Lecture Notes in Computer Science, 2018, 321-330</i> | 0.9 | 8 |
| 35 | CRank: A Novel Framework for Ranking Semantic Web Ontologies. <i>Lecture Notes in Computer Science, 2018, 107-121</i> | 0.9 | 3 |
| 34 | Weather Characterization from Outdoor Scene Images. <i>Lecture Notes in Computer Science, 2018, 160-170</i> | 0.9 | 0 |
| 33 | Predictive Memetic Algorithm (PMA) for Combinatorial Optimization in Dynamic Environments. <i>Lecture Notes in Computer Science, 2018, 100-110</i> | 0.9 | |

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| 32 | Policy discussion for sustainable integrated electricity expansion in South Africa. <i>Energy Policy</i> , 2018 , 120, 132-143 | 7.2 | 4 |
| 31 | An Improved Comfort Biased Smart Home Load Manager for Grid Connected Homes Under Direct Load Control. <i>Lecture Notes in Computer Science</i> , 2018 , 526-536 | 0.9 | |
| 30 | Hybrid component-based face recognition 2017 , | | 5 |
| 29 | 2017 , | | 3 |
| 28 | Mammogram content-based image retrieval based on malignancy classification. <i>Intelligent Data Analysis</i> , 2017 , 21, 1193-1212 | 1.1 | |
| 27 | A Spy Search Mechanism (SSM) for Memetic Algorithm (MA) in Dynamic Environments. <i>Lecture Notes in Computer Science</i> , 2017 , 450-461 | 0.9 | 1 |
| 26 | 2017 , | | 2 |
| 25 | Gender identification from facial images: Survey of the state-of-the-art 2017 , | | 1 |
| 24 | Iris pattern recognition based on cumulative sums and majority vote methods. <i>International Journal of Advanced Robotic Systems</i> , 2017 , 14, 172988141770393 | 1.4 | 6 |
| 23 | Enhanced Hybrid Component-Based Face Recognition. <i>Lecture Notes in Computer Science</i> , 2017 , 257-265 | 0.9 | |
| 22 | Component-Based Ethnicity Identification from Facial Images. <i>Lecture Notes in Computer Science</i> , 2016 , 293-303 | 0.9 | 3 |
| 21 | AUTOMATIC RETINAL VESSEL DETECTION AND TORTUOSITY MEASUREMENT. <i>Image Analysis and Stereology</i> , 2016 , 35, 117 | 1 | 12 |
| 20 | Sinuosity Coefficients for Leaf Shape Characterisation. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 141-150 | 0.4 | 3 |
| 19 | Leaf Classification Using Convexity Measure of Polygons. <i>Lecture Notes in Computer Science</i> , 2016 , 51-60 | 0.9 | |
| 18 | Retinal vessel segmentation based on phase congruence and GLCM sum-entropy 2015 , | | 4 |
| 17 | Hybrid Age Estimation Using Facial Images. <i>Lecture Notes in Computer Science</i> , 2015 , 239-246 | 0.9 | 1 |
| 16 | The effectiveness of combining the likelihood maps of different filters in improving detection of calcification objects 2015 , | | 1 |
| 15 | Retinal Vessel Segmentation: A Comparative Study of Fuzzy C-Means and Sum Entropy Information on Phase Congruency. <i>International Journal of Advanced Robotic Systems</i> , 2015 , 12, 133 | 1.4 | 13 |

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| 14 | Adaptive thresholding technique for retinal vessel segmentation based on GLCM-energy information. <i>Computational and Mathematical Methods in Medicine</i> , 2015 , 2015, 597475 | 2.8 | 33 |
| 13 | Comparative study of retinal vessel segmentation based on global thresholding techniques. <i>Computational and Mathematical Methods in Medicine</i> , 2015 , 2015, 895267 | 2.8 | 15 |
| 12 | Characterization of Medical Images Using Edge Density and Local Directional Pattern (LDP). <i>Lecture Notes in Computer Science</i> , 2015 , 394-401 | 0.9 | |
| 11 | An approximation based algorithm for minimum bounding rectangle computation 2014 , | | 1 |
| 10 | Handwritten Signature Verification Based on Enhanced Direction and Grid Features. <i>Lecture Notes in Computer Science</i> , 2014 , 820-829 | 0.9 | 0 |
| 9 | A New Adaptive Thresholding Technique for Retinal Vessel Segmentation Based on Local Homogeneity Information. <i>Lecture Notes in Computer Science</i> , 2014 , 558-567 | 0.9 | 10 |
| 8 | Gender classification using face recognition 2013 , | | 4 |
| 7 | Animal identification based on footprint recognition 2013 , | | 2 |
| 6 | Combining Feature Methods for Content-Based Classification of Mammogram Images. <i>International Journal of Computers, Communications and Control</i> , 2013 , 8, 499 | 3.6 | 2 |
| 5 | Handwritten signature verification using weighted fractional distance classification 2012 , | | 2 |
| 4 | Integrating iris and signature traits for personal authentication using user-specific weighting. <i>Sensors</i> , 2012 , 12, 4324-38 | 3.8 | 12 |
| 3 | Improving Iris-Based Personal Identification Using Maximum Rectangular Region Detection 2009 , | | 3 |
| 2 | An off-line signature verification system 2009 , | | 10 |
| 1 | Signature Verification Based on Handwritten Text Recognition. <i>Communications in Computer and Information Science</i> , 2009 , 98-105 | 0.3 | |