CITATION REPORT List of articles citing



DOI: 10.1109/tsmcb.2008.2002909 IEEE Transactions on Systems, Man, and Cybernetics, 2009, 39, 281-8.

Source: https://exaly.com/paper-pdf/47069251/citation-report.pdf

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

| # | Paper | IF | Citations |
|-----|--|-----|-----------|
| 598 | Overlap-Based Similarity Metrics for Motif Search in DNA Sequences. <i>Lecture Notes in Computer Science</i> , 2009 , 465-474 | 0.9 | О |
| 597 | A novel method for mining highly imbalanced high-throughput screening data in PubChem. 2009 , 25, 3310-6 | | 51 |
| 596 | Exploiting PubChem for Virtual Screening. 2010 , 5, 1205-1220 | | 59 |
| 595 | An approach for classification of highly imbalanced data using weighting and undersampling. 2010 , 39, 1385-91 | | 86 |
| 594 | Computational methodologies for studying non-coding RNAs relevant to central nervous system function and dysfunction. 2010 , 1338, 131-45 | | 8 |
| 593 | An asymmetric classifier based on partial least squares. 2010 , 43, 3448-3457 | | 44 |
| 592 | Empirical System Learning for Statistical Pattern Recognition With Non-Uniform Error Criteria. 2010 , 58, 4621-4633 | | 1 |
| 591 | Differential diagnosis of thyroid nodules with ultrasound elastography based on support vector machines. 2010 , | | 6 |
| 590 | Cost-sensitive learning methods for imbalanced data. 2010 , | | 113 |
| 589 | SVM-based spectral matching for metabolite identification. 2010 , 2010, 756-9 | | 2 |
| 588 | ALPOS: A Machine Learning Approach for Analyzing Microblogging Data. 2010, | | 4 |
| 587 | Improving Anti-spam Engine with Large Imbalanced Dataset Using Information Retrieval Technology. 2010 , | | |
| 586 | Certainty-Enhanced Active Learning for Improving Imbalanced Data Classification. 2011, | | 5 |
| 585 | Single- and cross- database benchmarks for gender classification under unconstrained settings. 2011 , | | 33 |
| 584 | An Improved Two-Step Supervised Learning Artificial Neural Network for Imbalanced Dataset Problems. 2011 , | | 1 |
| 583 | Artificial neural network [NaWe bayes fusion for solving classification problem of imbalanced dataset. 2011 , | | 3 |
| 582 | A comprehensive support vector machine binary hERG classification model based on extensive but biased end point hERG data sets. 2011 , 24, 934-49 | | 33 |

(2012-2011)

| 581 | Applying Over-sampling Technique Based on Data Density and Cost-sensitive SVM to Imbalanced Learning. 2011 , | 11 |
|-----|---|-----|
| 580 | A machine learning-based method to improve docking scoring functions and its application to drug repurposing. 2011 , 51, 408-19 | 138 |
| 579 | Binary classification of aqueous solubility using support vector machines with reduction and recombination feature selection. 2011 , 51, 229-36 | 37 |
| 578 | An efficient tree classifier ensemble-based approach for pedestrian detection. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2011 , 41, 107-17 | 40 |
| 577 | Aprendizado supervisionado com conjuntos de dados desbalanceados. 2011 , 22, 441-466 | 1 |
| 576 | When Costs Are Unequal and Unknown: A Subtree Grafting Approach for Unbalanced Data Classification*. 2011 , 42, 803-829 | 15 |
| 575 | Learning to rank for why-question answering. 2011 , 14, 107-132 | 20 |
| 574 | An application of artificial immune recognition system for prediction of diabetes following gestational diabetes. 2011 , 35, 283-9 | 14 |
| 573 | Sampling Bias and Class Imbalance in Maximum-likelihood Logistic Regression. 2011 , 43, 99-120 | 67 |
| 572 | Addressing data complexity for imbalanced data sets: analysis of SMOTE-based oversampling and evolutionary undersampling. 2011 , 15, 1909-1936 | 109 |
| 571 | Effective recognition of MCCs in mammograms using an improved neural classifier. 2011, 24, 638-645 | 31 |
| 57° | Bayesian decision theory for support vector machines: Imbalance measurement and feature optimization. 2011 , 38, 4698-4704 | 14 |
| 569 | A new weighted approach to imbalanced data classification problem via support vector machine with quadratic cost function. 2011 , 38, 8580-8585 | 53 |
| 568 | Utterance partitioning with acoustic vector resampling for GMMBVM speaker verification. 2011 , 53, 119-130 | 27 |
| 567 | An auditory brain-computer interface using virtual sound field. 2011 , 2011, 4568-71 | 5 |
| 566 | "I loan because". 2012 , | 22 |
| 565 | Improving classification performance for the minority class in highly imbalanced dataset using boosting. 2012 , | |
| 564 | Automatic landslide recognition through Optimum-Path Forest. 2012 , | 4 |

| 563 | Multiclass SVM with ramp loss for imbalanced data classification. 2012, | 6 |
|-----|--|-----|
| 562 | Gender classification based on human radiation frequencies of chakra points and brain regions. 2012 , | |
| 561 | Training SVM email classifiers using very large imbalanced dataset. 2012 , 24, 193-210 | 7 |
| 560 | Prediction of activity cliffs using support vector machines. 2012 , 52, 2354-65 | 39 |
| 559 | Prediction of flavin mono-nucleotide binding sites using modified PSSM profile and ensemble support vector machine. 2012 , 42, 1053-9 | 10 |
| 558 | Binary and multiclass imbalanced classification using multi-objective ant programming. 2012, | 1 |
| 557 | Prediction of candidate genes for neuropsychiatric disorders using feature-based enrichment. 2012 | 6 |
| 556 | ANN vs. SVM: Which one performs better in classification of MCCs in mammogram imaging. **Knowledge-Based Systems**, 2012 , 26, 144-153 7-3 | 156 |
| 555 | A simplified multi-class support vector machine with reduced dual optimization. 2012 , 33, 71-82 | 27 |
| 554 | Developing new fitness functions in genetic programming for classification with unbalanced data. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2012 , 42, 406-21 | 71 |
| 553 | A hybrid pansharpening approach and multiscale object-based image analysis for mapping diseased pine and oak trees. 2013 , 34, 6969-6982 | 54 |
| 552 | Weighted Online Sequential Extreme Learning Machine for Class Imbalance Learning. 2013, 38, 465-486 | 78 |
| 551 | An insight into classification with imbalanced data: Empirical results and current trends on using data intrinsic characteristics. 2013 , 250, 113-141 | 829 |
| 550 | Analysing the classification of imbalanced data-sets with multiple classes: Binarization techniques and ad-hoc approaches. <i>Knowledge-Based Systems</i> , 2013 , 42, 97-110 7.3 | 216 |
| 549 | Rule extraction from support vector machines by genetic algorithms. 2013 , 23, 729-739 | 7 |
| 548 | . 2013 , 25, 2283-2301 | 203 |
| 547 | Variance inflation in high dimensional Support Vector Machines. 2013 , 34, 2173-2180 | |
| 546 | A Multi-Expert System for chlorine electrolyzer monitoring. 2013 , 40, 3128-3136 | 3 |

(2013-2013)

| 545 | Binary classification of a large collection of environmental chemicals from estrogen receptor assays by quantitative structure-activity relationship and machine learning methods. 2013 , 53, 3244-61 | 47 |
|-----|--|-----|
| 544 | Feature selection for high-dimensional imbalanced data. <i>Neurocomputing</i> , 2013 , 105, 3-11 5.4 | 98 |
| 543 | One-vs-all for class imbalance learning. 2013 , | 3 |
| 542 | Facing Imbalanced Data Recommendations for the Use of Performance Metrics. 2013 , 2013, 245-251 | 230 |
| 541 | Performance Comparison of ESVM and CSVM for Classifying the Lung Nodules on CT Scans. 2013, | 1 |
| 540 | An ECG 12-lead hardware with SPIHT compressing scheme. 2013 , | 1 |
| 539 | Early Detection of Human Epileptic Seizures Based on Intracortical Local Field Potentials. 2013, 323-326 | 7 |
| 538 | Class-imbalanced classifiers for high-dimensional data. 2013 , 14, 13-26 | 169 |
| 537 | Evolving Diverse Ensembles Using Genetic Programming for Classification With Unbalanced Data. 2013 , 17, 368-386 | 141 |
| 536 | Computer-aided assessment of regional abdominal fat with food residue removal in CT. 2013 , 20, 1413-21 | 17 |
| 535 | Training Lp norm multiple kernel learning in the primal. 2013 , 46, 172-82 | 10 |
| 534 | Oversampling to overcome overfitting: exploring the relationship between data set composition, molecular descriptors, and predictive modeling methods. 2013 , 53, 958-71 | 33 |
| 533 | Novel cost-sensitive approach to improve the multilayer perceptron performance on imbalanced data. 2013 , 24, 888-99 | 121 |
| 532 | Weighted data gravitation classification for standard and imbalanced data. 2013 , 43, 1672-87 | 69 |
| 531 | Development of a novel prediction method of cis-elements to hypothesize collaborative functions of cis-element pairs in iron-deficient rice. 2013 , 6, 22 | 12 |
| 530 | A Hidden Markov Model with Abnormal States for Detecting Stock Price Manipulation. 2013, | 4 |
| 529 | Exploring confidence-based neighborhoods in Outlier Detection. 2013, | |
| 528 | Certainty-based active learning for sampling imbalanced datasets. <i>Neurocomputing</i> , 2013 , 119, 350-358 $_{5.4}$ | 13 |

| 527 | Minority SVM for linearly separable imbalanced datasets. 2013 , | 4 |
|---------------------------------|---|--|
| 526 | Measure optimized wrapper framework for multi-class imbalanced data learning: An empirical study. 2013 , | 3 |
| 525 | A Cost-Sensitive Ensemble Method for Class-Imbalanced Datasets. 2013 , 2013, 1-6 | 10 |
| 524 | Combating Sub-Clusters Effect in Imbalanced Classification. 2013, | 1 |
| 523 | Improved automatic filtering algorithm for imbalanced classification based on SVM-RFE. 2013, | 1 |
| 522 | MOGT: Oversampling with a parsimonious mixture of Gaussian trees model for imbalanced time-series classification. 2013 , | 1 |
| 521 | Ensemble of Cost-Sensitive Hypernetworks for Class-Imbalance Learning. 2013, | 5 |
| 520 | Review of Imbalanced Data Learning for Protein Methylation Prediction. 2013 , 71-89 | 1 |
| 519 | An Empirical Investigation of Virtual Screening. 2013, | 1 |
| | | |
| 518 | The VIMOS Public Extragalactic Redshift Survey (VIPERS). 2013 , 557, A16 | 30 |
| 518 517 | The VIMOS Public Extragalactic Redshift Survey (VIPERS). 2013 , 557, A16 A comparison of the predictive power of anthropometric indices for hypertension and hypotension risk. 2014 , 9, e84897 | 30 25 |
| | A comparison of the predictive power of anthropometric indices for hypertension and hypotension | , and the second |
| 517 | A comparison of the predictive power of anthropometric indices for hypertension and hypotension risk. 2014 , 9, e84897 | 25 |
| 517 516 | A comparison of the predictive power of anthropometric indices for hypertension and hypotension risk. 2014 , 9, e84897 Predicting Relevant Change in High Resolution Satellite Imagery. 2014 , 3, 1491-1511 Applying Cost-Sensitive Classification for Financial Fraud Detection under High Class-Imbalance. | 25 |
| 517 516 515 | A comparison of the predictive power of anthropometric indices for hypertension and hypotension risk. 2014, 9, e84897 Predicting Relevant Change in High Resolution Satellite Imagery. 2014, 3, 1491-1511 Applying Cost-Sensitive Classification for Financial Fraud Detection under High Class-Imbalance. 2014, Neighborhood Triangular Synthetic Minority Over-sampling Technique for Imbalanced Prediction | 25 1 15 |
| 517 516 515 | A comparison of the predictive power of anthropometric indices for hypertension and hypotension risk. 2014, 9, e84897 Predicting Relevant Change in High Resolution Satellite Imagery. 2014, 3, 1491-1511 Applying Cost-Sensitive Classification for Financial Fraud Detection under High Class-Imbalance. 2014, Neighborhood Triangular Synthetic Minority Over-sampling Technique for Imbalanced Prediction on Small Samples of Chinese Tourism and Hospitality Firms. 2014, Hybrid Balancing Technique Using GRSOM and Bootstrap Algorithms for Classifiers with | 25 1 15 |
| 517 516 515 514 513 | A comparison of the predictive power of anthropometric indices for hypertension and hypotension risk. 2014, 9, e84897 Predicting Relevant Change in High Resolution Satellite Imagery. 2014, 3, 1491-1511 Applying Cost-Sensitive Classification for Financial Fraud Detection under High Class-Imbalance. 2014, Neighborhood Triangular Synthetic Minority Over-sampling Technique for Imbalanced Prediction on Small Samples of Chinese Tourism and Hospitality Firms. 2014, Hybrid Balancing Technique Using GRSOM and Bootstrap Algorithms for Classifiers with Imbalanced Data. 2014, 931-932, 1375-1381 A parsimonious mixture of Gaussian trees model for oversampling in imbalanced and multimodal | 25 1 15 2 |

| 509 | Spatial filtering based on canonical correlation analysis for classification of evoked or event-related potentials in EEG data. 2014 , 22, 1097-103 | 45 | |
|-----|--|-----------------|--|
| 508 | An asymmetric stagewise least square loss function for imbalanced classification. 2014 , | 4 | |
| 507 | A Bayesian beta kernel model for binary classification and online learning problems. 2014 , 7, 434-449 | 3 | |
| 506 | Support Vector Regression Method for Wind Speed Prediction Incorporating Probability Prior Knowledge. 2014 , 2014, 1-10 | 4 | |
| 505 | Boosted SVM for extracting rules from imbalanced data in application to prediction of the post-operative life expectancy in the lung cancer patients. 2014 , 14, 99-108 | 82 | |
| 504 | On the importance of the validation technique for classification with imbalanced datasets: Addressing covariate shift when data is skewed. 2014 , 257, 1-13 | 97 | |
| 503 | An efficient weighted Lagrangian twin support vector machine for imbalanced data classification. 2014 , 47, 3158-3167 | 107 | |
| 502 | SVM classification for imbalanced data sets using a multiobjective optimization framework. 2014 , 216, 191-203 | 10 | |
| 501 | Rain identification and measurement using Oceansat-II scatterometer observations. 2014 , 142, 20-32 | 6 | |
| 500 | A systematic approach to identify novel cancer drug targets using machine learning, inhibitor design and high-throughput screening. 2014 , 6, 57 | 67 | |
| 499 | ForesTexter: An efficient random forest algorithm for imbalanced text categorization. Knowledge-Based Systems, 2014 , 67, 105-116 | 3 75 | |
| 498 | Predicting minority class for suspended particulate matters level by extreme learning machine. Neurocomputing, 2014 , 128, 136-144 | 1 39 | |
| 497 | Gene Selection Using Locality Sensitive Laplacian Score. 2014 , 11, 1146-56 | 37 | |
| 496 | A weighted support vector machine method for control chart pattern recognition. <i>Computers and Industrial Engineering</i> , 2014 , 70, 134-149 | ₄ 65 | |
| 495 | RWO-Sampling: A random walk over-sampling approach to imbalanced data classification. 2014 , 20, 99-116 | 5 78 | |
| 494 | GSVM: An SVM for handling imbalanced accuracy between classes inbi-classification problems. 2014 , 17, 23-31 | 33 | |
| 493 | SR-NBS: A fast sparse representation based N-best class selector for robust phoneme classification. 2014 , 28, 155-164 | 5 | |
| 492 | An efficient seizure prediction method using KNN-based undersampling and linear frequency measures. 2014 , 232, 134-42 | 40 | |

| 491 | Role of spontaneous physical activity in prediction of susceptibility to activity based anorexia in male and female rats. 2014 , 135, 104-11 | 12 |
|-----|--|---------|
| 490 | Adjusted F-measure and kernel scaling for imbalanced data learning. 2014 , 257, 331-341 | 88 |
| 489 | A methodology for the prediction of Embryophyta protein functions using mismatch kernels. 2015, | 2 |
| 488 | . 2015, | 1 |
| 487 | Improving the selection of news reports for event coding using ensemble classification. 2015 , 2, 2053168015 | 61:5859 |
| 486 | Affordance-map: Mapping human context in 3D scenes using cost-sensitive SVM and virtual human models. 2015 , | 1 |
| 485 | A linear-RBF multikernel SVM to classify big text corpora. 2015 , 2015, 878291 | 13 |
| 484 | Binary matrix shuffling filter for feature selection in neuronal morphology classification. 2015 , 2015, 626975 | 1 |
| 483 | Imbalanced Protein Data Classification Using Ensemble FTM-SVM. 2015 , 14, 350-359 | 11 |
| 482 | Comprehensive mechanical property classification of vapor-grown carbon nanofiber/vinyl ester nanocomposites using support vector machines. 2015 , 99, 316-325 | 7 |
| 481 | Feature extraction of probe mark image and automatic detection of probing pad defects in semiconductor using CSVM. 2015 , | |
| 480 | Performance evaluation of SVM and iterative FSVM classifiers with bootstrapping-based over-sampling and under-sampling. 2015 , | |
| 479 | FIM-Based Pairwise Selection for Active Learning on Imbalanced Datasets. 2015, | 1 |
| 478 | Analysis of Negation Cues for Semantic Orientation Classification of Reviews in Spanish. <i>Lecture Notes in Computer Science</i> , 2015 , 105-120 | 1 |
| 477 | Kernel-based SMOTE for SVM classification of imbalanced datasets. 2015, | 26 |
| 476 | Parameter estimation of atherosclerotic tissue optical properties from three-dimensional intravascular optical coherence tomography. 2015 , 2, 016001 | 20 |
| 475 | Classifying imbalanced data sets using similarity based hierarchical decomposition. 2015 , 48, 1653-1672 | 89 |
| 474 | Word Embedding Composition for Data Imbalances in Sentiment and Emotion Classification. 2015 , 7, 226-240 | 45 |

(2015-2015)

| 473 | Diversified Sensitivity-Based Undersampling for Imbalance Classification Problems. 2015 , 45, 2402-12 | 114 |
|-----|---|-----|
| 472 | Coupling different methods for overcoming the class imbalance problem. <i>Neurocomputing</i> , 2015 , 158, 48-61 | 80 |
| 471 | A study of visual behavior of multidimensional scaling for kernel perceptron algorithm. 2015 , 26, 679-691 | |
| 470 | Integrating new data balancing technique with committee networks for imbalanced data: GRSOM approach. 2015 , 9, 627-38 | 10 |
| 469 | Near-Bayesian Support Vector Machines for imbalanced data classification with equal or unequal misclassification costs. 2015 , 70, 39-52 | 99 |
| 468 | Parallel selective sampling method for imbalanced and large data classification. 2015 , 62, 61-67 | 41 |
| 467 | An effective Weighted Multi-class Least Squares Twin Support Vector Machine for Imbalanced data classification. 2015 , 8, 761-778 | 15 |
| 466 | A dynamic Bayesian network model for real-time crash prediction using traffic speed conditions data. <i>Transportation Research Part C: Emerging Technologies</i> , 2015 , 54, 176-186 | 96 |
| 465 | Class imbalance learning via a fuzzy total margin based support vector machine. 2015 , 31, 172-184 | 39 |
| 464 | APN model construction for malicious email detection. 2015 , 42, 5696-5704 | 2 |
| 463 | Evolutionary fuzzy ARTMAP neural networks for classification of semiconductor defects. 2015 , 26, 933-50 | 44 |
| 462 | Extracting flow features via supervised streamline segmentation. 2015 , 52, 79-92 | 7 |
| 461 | Application of SVM to Identify Relevant State Drivers. 2015 , 153-188 | 1 |
| 460 | Positive-unlabeled ensemble learning for kinase substrate prediction from dynamic phosphoproteomics data. 2016 , 32, 252-9 | 17 |
| 459 | Structure and weights optimisation of a modified Elman network emotion classifier using hybrid computational intelligence algorithms: a comparative study. 2015 , 27, 340-357 | 3 |
| 458 | Identification of the Best Anthropometric Predictors of Serum High- and Low-Density Lipoproteins Using Machine Learning. 2015 , 19, 1747-56 | 11 |
| 457 | Accept/decline decision module for the liver simulated allocation model. 2015, 18, 35-57 | 9 |
| 456 | Ensemble of subset online sequential extreme learning machine for class imbalance and concept drift. <i>Neurocomputing</i> , 2015 , 149, 316-329 | 109 |

| 455 | SMOTEIPF: Addressing the noisy and borderline examples problem in imbalanced classification by a re-sampling method with filtering. 2015 , 291, 184-203 | 259 |
|--------------------------|--|---------------|
| 454 | Set-valued samples based support vector regression and its applications. 2015 , 42, 2502-2509 | 8 |
| 453 | Adaptive hidden Markov model with anomaly States for price manipulation detection. 2015 , 26, 318-30 | 44 |
| 452 | Diabetic peripheral neuropathy class prediction by multicategory support vector machine model: a cross-sectional study. 2016 , 38, e2016011 | 11 |
| 451 | Development of Health Parameter Model for Risk Prediction of CVD Using SVM. 2016 , 2016, 3016245 | 23 |
| 450 | A Novel Sample Selection Strategy for Imbalanced Data of Biomedical Event Extraction with Joint Scoring Mechanism. 2016 , 2016, 7536494 | 2 |
| 449 | A New Methodology Based on Imbalanced Classification for Predicting Outliers in Electricity Demand Time Series. 2016 , 9, 752 | 13 |
| 448 | Tree Species Abundance Predictions in a Tropical Agricultural Landscape with a Supervised Classification Model and Imbalanced Data. 2016 , 8, 161 | 51 |
| 447 | Multilevel Weighted Support Vector Machine for Classification on Healthcare Data with Missing Values. 2016 , 11, e0155119 | 33 |
| 446 | Performance prediction of optical image stabilizer using SVM for shaker-free production line. 2016, | |
| | | |
| 445 | X-ray astronomical point sources recognition using granular binary-tree SVM. 2016 , | 3 |
| 444 | X-ray astronomical point sources recognition using granular binary-tree SVM. 2016 , A Novel Classifier - Weighted Features Cost-Sensitive SVM. 2016 , | 3 |
| | | |
| 444 | A Novel Classifier - Weighted Features Cost-Sensitive SVM. 2016 , Adaptive swarm cluster-based dynamic multi-objective synthetic minority oversampling technique | Ο |
| 444 | A Novel Classifier - Weighted Features Cost-Sensitive SVM. 2016 , Adaptive swarm cluster-based dynamic multi-objective synthetic minority oversampling technique algorithm for tackling binary imbalanced datasets in biomedical data classification. 2016 , 9, 37 | Ο |
| 444 443 442 | A Novel Classifier - Weighted Features Cost-Sensitive SVM. 2016, Adaptive swarm cluster-based dynamic multi-objective synthetic minority oversampling technique algorithm for tackling binary imbalanced datasets in biomedical data classification. 2016, 9, 37 Gastric Lymph nodes detection based on visual saliency and dictionary learning. 2016, | 0 23 |
| 444 443 442 441 | A Novel Classifier - Weighted Features Cost-Sensitive SVM. 2016, Adaptive swarm cluster-based dynamic multi-objective synthetic minority oversampling technique algorithm for tackling binary imbalanced datasets in biomedical data classification. 2016, 9, 37 Gastric Lymph nodes detection based on visual saliency and dictionary learning. 2016, Large-scale detection of non-technical losses in imbalanced data sets. 2016, | o 23 33 |

| 437 | Activity Recognition in Surfing - A Comparative Study between Hidden Markov Model and Support Vector Machine. 2016 , 147, 912-917 | | 6 |
|-----|--|-----|-----|
| 436 | Distributional Random Oversampling for Imbalanced Text Classification. 2016, | | 30 |
| 435 | End-of-line fault detection for combustion engines using one-class classification. 2016 , | | 6 |
| 434 | Handling class imbalance in direct marketing dataset using a hybrid data and algorithmic level solutions. 2016 , | | 5 |
| 433 | Effect of training strategy for positive and unlabelled learning classification: test on Landsat imagery. 2016 , 7, 1063-1072 | | 13 |
| 432 | Rare category exploration via wavelet analysis: Theory and applications. 2016 , 63, 173-186 | | 5 |
| 431 | Is There a Relationship Between Neighborhoods of Minority Class Instances and the Performance of Classification Methods?. <i>Lecture Notes in Computer Science</i> , 2016 , 750-761 | 0.9 | |
| 430 | Getting the most out of PubChem for virtual screening. 2016 , 11, 843-55 | | 59 |
| 429 | Design of a support vector machine with different kernel functions to predict scour depth around bridge piers. 2016 , 84, 2145-2162 | | 35 |
| 428 | A Survey of Predictive Modeling on Imbalanced Domains. 2016 , 49, 1-50 | | 373 |
| 427 | CNUSVM: Hybrid CNN-Uneven SVM Model for Imbalanced Visual Learning. 2016, | | 2 |
| 426 | An efficient automatic workload estimation method based on electrodermal activity using pattern classifier combinations. 2016 , 110, 91-101 | | 21 |
| 425 | Two-layered ensemble Kohonen nets for imbalanced streaming data. 2016, | | |
| 424 | Optimal classification for the diagnosis of duchenne muscular dystrophy images using support vector machines. 2016 , 11, 1755-63 | | 6 |
| 423 | Real-time crash prediction on urban expressways: identification of key variables and a hybrid support vector machine model. 2016 , 10, 331-337 | | 36 |
| 422 | Pseudo-inverse linear discriminants for the improvement of overall classification accuracies. 2016 , 81, 59-71 | | 4 |
| 421 | Multi-Step Ahead Predictions for Critical Levels in Physiological Time Series. 2016 , 46, 1704-14 | | 23 |
| 420 | Empowering one-vs-one decomposition with ensemble learning for multi-class imbalanced data. <i>Knowledge-Based Systems</i> , 2016 , 106, 251-263 | 7.3 | 66 |

| 419 | Application of machine learning to construction injury prediction. 2016 , 69, 102-114 | 119 |
|-----|---|-----|
| 418 | Identification of Type 2 Diabetes Risk Factors Using Phenotypes Consisting of Anthropometry and Triglycerides based on Machine Learning. 2016 , 20, 39-46 | 65 |
| 417 | Incremental granular relevance vector machine: A case study in multimodal biometrics. 2016, 56, 63-76 | 22 |
| 416 | Imbalanced classification by learning hidden data structure. 2016 , 48, 614-628 | 6 |
| 415 | A k-nearest neighbor classification of hERG K(+) channel blockers. 2016 , 30, 229-36 | 18 |
| 414 | Mixed-kernel based weighted extreme learning machine for inertial sensor based human activity recognition with imbalanced dataset. <i>Neurocomputing</i> , 2016 , 190, 35-49 | 61 |
| 413 | Finding the Best Classification Threshold in Imbalanced Classification. 2016 , 5, 2-8 | 89 |
| 412 | . 2016 , 13, 192-205 | 82 |
| 411 | A generalized procedure for analyzing sustained and dynamic vocal fold vibrations from laryngeal high-speed videos using phonovibrograms. 2016 , 66, 15-28 | 12 |
| 410 | Predicting Movie Trailer Viewer's 🛘 ike/Dislike 🖟 ia Learned Shot Editing Patterns. 2016 , 7, 29-44 | 10 |
| 409 | Oversampling the Minority Class in the Feature Space. 2016 , 27, 1947-61 | 34 |
| 408 | Triaging Diagnostically Relevant Regions from Pathology Whole Slides of Breast Cancer: A Texture Based Approach. 2016 , 35, 307-15 | 34 |
| 407 | . 2017 , 18, 49-58 | 62 |
| 406 | Ensemble weighted extreme learning machine for imbalanced data classification based on differential evolution. 2017 , 28, 259-267 | 25 |
| 405 | KerMinSVM for imbalanced datasets with a case study on arabic comics classification. 2017, 59, 159-169 | 5 |
| 404 | Class-specific cost regulation extreme learning machine for imbalanced classification. Neurocomputing, 2017 , 261, 70-82 5-4 | 76 |
| 403 | Online sequential prediction of imbalance data with two-stage hybrid strategy by extreme learning machine. <i>Neurocomputing</i> , 2017 , 261, 94-105 | 16 |
| 402 | Improving specific class mapping from remotely sensed data by cost-sensitive learning. 2017 , 38, 3294-3316 | 11 |

| 401 | FuzzyBynthetic minority oversampling technique: Oversampling based on fuzzy set theory for Android malware detection in imbalanced datasets. 2017 , 13, 155014771770311 | 9 |
|-----|--|-----|
| 400 | Enhancing White-Box Machine Learning Processes by Incorporating Semantic Background Knowledge. <i>Lecture Notes in Computer Science</i> , 2017 , 267-278 | 2 |
| 399 | Confusion-Matrix-Based Kernel Logistic Regression for Imbalanced Data Classification. 2017 , 29, 1806-1819 | 69 |
| 398 | Can Learning Vector Quantization be an Alternative to SVM and Deep Learning? - Recent Trends and Advanced Variants of Learning Vector Quantization for Classification Learning. 2017 , 7, 65-81 | 34 |
| 397 | Difficulty Factors and Preprocessing in Imbalanced Data Sets: An Experimental Study on Artificial Data. 2017 , 42, 149-176 | 11 |
| 396 | TapSense. 2017 , | 20 |
| 395 | Improving SVM Classification on Imbalanced Datasets by Introducing a New Bias. 2017, 34, 427-443 | 11 |
| 394 | A New Approach for Imbalanced Data Classification Based on Minimize Loss Learning. 2017, | 6 |
| 393 | An Online Algorithm for Online Fraud Detection: Definition and Testing. 2017, 83-107 | 1 |
| 392 | Towards Deeper Insights into Deep Learning from Imbalanced Data. <i>Communications in Computer and Information Science</i> , 2017 , 674-684 | 1 |
| 391 | An Ensemble Deep Learning Method for Vehicle Type Classification on Visual Traffic Surveillance Sensors. <i>IEEE Access</i> , 2017 , 5, 24417-24425 | 55 |
| 390 | An empirical approach for fake user detection in location-based social networks. 2017 , 9, 643-657 | 1 |
| 389 | Medical data classification scheme based on hybridized SMOTE technique (HST) and Rough Set technique (RST). 2017 , | 4 |
| 388 | Supervector-based approaches in a discriminative framework for speaker verification in noisy environments. 2017 , 20, 387-416 | 1 |
| 387 | Imbalanced TSK Fuzzy Classifier by Cross-Class Bayesian Fuzzy Clustering and Imbalance Learning. 2017 , 47, 2005-2020 | 34 |
| 386 | A Noise-Filtered Under-Sampling Scheme for Imbalanced Classification. 2017 , 47, 4263-4274 | 103 |
| 385 | Evaluating effectiveness of smartphone typing as an indicator of user emotion. 2017, | 8 |
| 384 | Introducing DeepBalance: Random deep belief network ensembles to address class imbalance. 2017, | 3 |

| 383 | Anomaly detection survey for information security. 2017, | 1 |
|-----|--|----|
| 382 | Deep Ensembles for Imbalanced Classification. 2017, | 8 |
| 381 | CGAN-plankton: Towards large-scale imbalanced class generation and fine-grained classification. 2017 , | 10 |
| 380 | Loss Max-Pooling for Semantic Image Segmentation. 2017, | 53 |
| 379 | Employer Industry Classification Using Job Postings. 2017 , | 3 |
| 378 | Class Rectification Hard Mining for Imbalanced Deep Learning. 2017, | 49 |
| 377 | Impact of defect velocity at class level. 2017, | |
| 376 | Face Recognition Based on Facial Landmarks. 2017 , | O |
| 375 | Specific Land Cover Class Mapping by Semi-Supervised Weighted Support Vector Machines. 2017 , 9, 181 | 13 |
| 374 | Large Earthquake Magnitude Prediction in Chile with Imbalanced Classifiers and Ensemble Learning. 2017 , 7, 625 | 10 |
| 373 | Automatic diagnosis of imbalanced ophthalmic images using a cost-sensitive deep convolutional neural network. 2017 , 16, 132 | 18 |
| 372 | DRCW-ASEG: One-versus-One distance-based relative competence weighting with adaptive synthetic example generation for multi-class imbalanced datasets. <i>Neurocomputing</i> , 2018 , 285, 176-187 $^{5\cdot4}$ | 20 |
| 371 | Similarity Majority Under-Sampling Technique for Easing Imbalanced Classification Problem. Communications in Computer and Information Science, 2018, 3-23 | 1 |
| 370 | An overlap-sensitive margin classifier for imbalanced and overlapping data. 2018 , 98, 72-83 | 55 |
| 369 | EVALUATING PATTERN RECOGNITION PROBLEM. 2018 , 133-157 | |
| 368 | Prediction of venous thromboembolism using semantic and sentiment analyses of clinical narratives. 2018 , 94, 1-10 | 23 |
| 367 | A DBN-based resampling SVM ensemble learning paradigm for credit classification with imbalanced data. 2018 , 69, 192-202 | 74 |
| 366 | Prediction of Compound Profiling Matrices Using Machine Learning. 2018 , 3, 4713-4723 | 23 |

(2018-2018)

| 365 | Towards a generalized toxicity prediction model for oxide nanomaterials using integrated data from different sources. 2018 , 8, 6110 | 30 |
|-----|---|-----|
| 364 | Deep normalized convolutional neural network for imbalanced fault classification of machinery and its understanding via visualization. 2018 , 110, 349-367 | 278 |
| 363 | . 2018 , 56, 5035-5045 | 16 |
| 362 | Supervised and Unsupervised Aspect Category Detection for Sentiment Analysis with Co-occurrence Data. 2018 , 48, 1263-1275 | 51 |
| 361 | Adaptive multi-objective swarm fusion for imbalanced data classification. 2018, 39, 1-24 | 50 |
| 360 | Imbalanced classification in sparse and large behaviour datasets. 2018 , 32, 25-82 | 25 |
| 359 | A hybrid approach for classification of rare class data. 2018 , 56, 197-221 | 2 |
| 358 | Kernel based online learning for imbalance multiclass classification. <i>Neurocomputing</i> , 2018 , 277, 139-148 _{5.4} | 40 |
| 357 | Cost-Sensitive Learning of Deep Feature Representations From Imbalanced Data. 2018 , 29, 3573-3587 | 215 |
| 356 | Classification of Imbalanced Data by Oversampling in Kernel Space of Support Vector Machines. 2018 , 29, 4065-4076 | 106 |
| 355 | An Analysis of Several Machine Learning Algorithms for Imbalanced Classes. 2018, | 1 |
| 354 | A Selective Under-Sampling based Bagging SVM for Imbalanced Data Learning in Biomedical Event Trigger Recognition. 2018 , | |
| 353 | Identifying Patients with Coronary Microvascular Dysfunction using Machine Learning. 2018, | |
| 352 | Stacked Denoising Autoencoders for Mortality Risk Prediction Using Imbalanced Clinical Data. 2018 | 8 |
| 351 | Focusing on the Big Picture: Insights into a Systems Approach to Deep Learning for Satellite Imagery. 2018 , | О |
| 350 | Transferred Parallel Convolutional Neural Network for Large Imbalanced Plankton Database Classification. 2018 , | 2 |
| 349 | The Effect of Class Imbalance Against LVQ Classification. 2018, | О |
| 348 | An Adaptive Ray-Shooting Model for Terminations Detection: Applications in Neuron and Retinal Blood Vessel Images. 2018 , | |

347 Hybridizing J48 and SVM for Predicting Sale and Purchase of Property. **2018**,

| 346 | Behavioral attributes and financial churn prediction. 2018 , 7, | 14 |
|-----|---|-------------|
| 345 | . 2018, | 2 |
| 344 | Oversample Based Large Scale Support Vector Machine for Online Class Imbalance Problem. Lecture Notes in Computer Science, 2018 , 348-362 | 1 |
| 343 | SVM Optimization for Brain Tumor Identification Using Infrared Spectroscopic Samples. 2018, 18, | 6 |
| 342 | A survey on addressing high-class imbalance in big data. 2018 , 5, | 193 |
| 341 | . IEEE Access, 2018 , 6, 46886-46899 | 14 |
| 340 | Deep Weighted Extreme Learning Machine. 2018 , 10, 890-907 | 23 |
| 339 | Imbalanced Data Classification Using a Relevant Information-Based Sampling Approach. <i>Lecture Notes in Computer Science</i> , 2018 , 280-287 | |
| 338 | Predicting the progression of ophthalmic disease based on slit-lamp images using a deep temporal sequence network. 2018 , 13, e0201142 | 12 |
| 337 | Patient-specific seizure prediction based on heart rate variability and recurrence quantification analysis. 2018 , 13, e0204339 | 39 |
| 336 | Class-specific kernelized extreme learning machine for binary class imbalance learning. 2018 , 73, 1026-1038 | 28 |
| 335 | Value-Aware Resampling and Loss for Imbalanced Classification. 2018, | 1 |
| 334 | Deep Regression Tracking with Shrinkage Loss. <i>Lecture Notes in Computer Science</i> , 2018 , 369-386 0.9 | 102 |
| 333 | A Hybrid Case Based Reasoning Model for Classification in Internet of Things (IoT) Environment. 2018 , 30, 104-122 | 39 |
| 332 | Deep Recurrent Neural Network for Agricultural Classification using multitemporal SAR Sentinel-1 for Camargue, France. 2018 , 10, 1217 | 12 0 |
| 331 | Counting Fish in Sonar Images. 2018 , | 6 |
| 330 | Double-Windows-Based Motion Recognition in Multi-Floor Buildings Assisted by a Built-In Barometer. 2018 , 18, | 5 |

| 329 | A Framework of Rebalancing Imbalanced Healthcare Data for Rare Events' Classification: A Case of Look-Alike Sound-Alike Mix-Up Incident Detection. 2018 , 2018, 6275435 | | 15 | |
|-----|--|------|----|--|
| 328 | Oversampling the minority class in a multi-linear feature space for imbalanced data classification. 2018 , 13, 1483-1491 | | 2 | |
| 327 | Incorporating unsupervised learning into intrusion detection for wireless sensor networks with structural co-evolvability. 2018 , 71, 939-951 | | 17 | |
| 326 | Augmentation of Physician Assessments with Multi-Omics Enhances Predictability of Drug Response: A Case Study of Major Depressive Disorder. 2018 , 13, 20-31 | | 16 | |
| 325 | Improving deep ensemble vehicle classification by using selected adversarial samples. Knowledge-Based Systems, 2018, 160, 167-175 | 7.3 | 19 | |
| 324 | Benchmarking Swarm Rebalancing Algorithm for Relieving Imbalanced Machine Learning Problems. 2018 , 1-40 | | | |
| 323 | . 2018, | | 7 | |
| 322 | DPubChem: a web tool for QSAR modeling and high-throughput virtual screening. 2018 , 8, 9110 | | 24 | |
| 321 | On support vector machines under a multiple-cost scenario. 2019 , 13, 663-682 | | 8 | |
| 320 | On the relative value of data resampling approaches for software defect prediction. 2019 , 24, 602-636 | | 25 | |
| 319 | A robust correlation analysis framework for imbalanced and dichotomous data with uncertainty. 2019 , 470, 58-77 | | 31 | |
| 318 | Intelligent operation of heavy haul train with data imbalance: A machine learning method. Knowledge-Based Systems, 2019 , 163, 36-50 | 7.3 | 16 | |
| 317 | . IEEE Transactions on Industrial Informatics, 2019 , 15, 2124-2135 | 11.9 | 52 | |
| 316 | EoT-driven hybrid ambient assisted living framework with naWe Bayesfirefly algorithm. 2019 , 31, 1275-13 | 300 | 30 | |
| 315 | . 2019, | | 7 | |
| 314 | A new adaptive weighted imbalanced data classifier via improved support vector machines with high-dimension nature. <i>Knowledge-Based Systems</i> , 2019 , 185, 104933 | 7.3 | 12 | |
| 313 | AUC4.5: AUC-Based C4.5 Decision Tree Algorithm for Imbalanced Data Classification. <i>IEEE Access</i> , 2019 , 7, 106034-106042 | 3.5 | 22 | |
| 312 | Spiral-Net with F1-Based Optimization for Image-Based Crack Detection. <i>Lecture Notes in Computer Science</i> , 2019 , 88-104 | 0.9 | Ο | |

| 311 | CLASSIFICATION OF GLAUCOMA USING SIMPLIFIED-MULTICLASS SUPPORT VECTOR MACHINE. 2019 , 31, 1950039 | | 3 |
|-------------------|---|-----|------------------|
| 310 | Online sequential class-specific extreme learning machine for binary imbalanced learning. 2019 , 119, 235-248 | | 19 |
| 309 | A Deep Learning Approach for Sleep-Wake Detection from HRV and Accelerometer Data. 2019, | | 3 |
| 308 | Generalization of Deep Neural Networks for Imbalanced Fault Classification of Machinery Using Generative Adversarial Networks. <i>IEEE Access</i> , 2019 , 7, 111168-111180 | 3.5 | 35 |
| 307 | An Intelligent and Smart Environment Monitoring System for Healthcare. 2019 , 9, 4172 | | 3 |
| 306 | RsRS: Ridesharing Recommendation System Based on Social Networks to Improve the User QoE. 2019 , 20, 4728-4740 | | 14 |
| 305 | Predicting High-Risk Prostate Cancer Using Machine Learning Methods. 2019 , 4, 129 | | 23 |
| 304 | A Weighted SVM Based Approach for Automatic Detection of Posterior Myocardial Infarction Using VCG Signals. 2019 , | | 9 |
| 303 | Signal quality measure for pulsatile physiological signals using morphological features: Applications in reliability measure for pulse oximetry. 2019 , 16, 100222-100222 | | 9 |
| 302 | A Systematic Review on Imbalanced Data Challenges in Machine Learning. 2019 , 52, 1-36 | | 89 |
| 301 | A Fast and Robust Support Vector Machine With Anti-Noise Convex Hull and its Application in | | 3 |
| | Large-Scale ncRNA Data Classification. <i>IEEE Access</i> , 2019 , 7, 134730-134741 | 3.5 | |
| 300 | | 3.5 | 1 |
| 300 299 | Large-Scale ncRNA Data Classification. <i>IEEE Access</i> , 2019 , 7, 134730-134741 A Combined Support Vector Machine and Support Vector Representation Machine Method for | 3.5 | |
| | A Combined Support Vector Machine and Support Vector Representation Machine Method for Production Control *. 2019, | 3.5 | 1 |
| 299 | Large-Scale ncRNA Data Classification. <i>IEEE Access</i> , 2019 , 7, 134730-134741 A Combined Support Vector Machine and Support Vector Representation Machine Method for Production Control *. 2019 , A new rule-based knowledge extraction approach for imbalanced datasets. 2019 , 61, 1303-1329 Identifying Weak Signals in Inhomogeneous Neuronal Images for Large-Scale Tracing of Sparsely | 3.5 | 2 |
| 299 298 | Large-Scale ncRNA Data Classification. <i>IEEE Access</i> , 2019 , 7, 134730-134741 A Combined Support Vector Machine and Support Vector Representation Machine Method for Production Control *. 2019 , A new rule-based knowledge extraction approach for imbalanced datasets. 2019 , 61, 1303-1329 Identifying Weak Signals in Inhomogeneous Neuronal Images for Large-Scale Tracing of Sparsely Distributed Neurites. 2019 , 17, 497-514 Empirical Evaluation of Map Reduce Based Hybrid Approach for Problem of Imbalanced | 3.5 | 2 5 |
| 299 298 297 | Large-Scale ncRNA Data Classification. <i>IEEE Access</i> , 2019 , 7, 134730-134741 A Combined Support Vector Machine and Support Vector Representation Machine Method for Production Control *. 2019 , A new rule-based knowledge extraction approach for imbalanced datasets. 2019 , 61, 1303-1329 Identifying Weak Signals in Inhomogeneous Neuronal Images for Large-Scale Tracing of Sparsely Distributed Neurites. 2019 , 17, 497-514 Empirical Evaluation of Map Reduce Based Hybrid Approach for Problem of Imbalanced Classification in Big Data. 2019 , 11, 23-45 Robust Rescaled Hinge Loss Twin Support Vector Machine for Imbalanced Noisy Classification. <i>IEEE</i> | | 1 2 5 3 |

| 293 | Identifying IoT devices and events based on packet length from encrypted traffic. 2019, 144, 8-17 | 26 |
|-----|---|----|
| 292 | Deep Imbalanced Learning for Face Recognition and Attribute Prediction. 2020 , 42, 2781-2794 | 77 |
| 291 | Classification of Patients with Coronary Microvascular Dysfunction. 2020 , 17, 704-711 | 1 |
| 290 | Emotion detection from touch interactions during text entry on smartphones. 2019 , 130, 47-57 | 23 |
| 289 | Support Vector Representation Machine for superalloy investment casting optimization. 2019 , 72, 324-336 | 10 |
| 288 | DNAPred: Accurate Identification of DNA-Binding Sites from Protein Sequence by Ensembled Hyperplane-Distance-Based Support Vector Machines. 2019 , 59, 3057-3071 | 17 |
| 287 | . 2019 , 27, 2353-2367 | 40 |
| 286 | Cost-sensitive support vector machines. <i>Neurocomputing</i> , 2019 , 343, 50-64 5.4 | 60 |
| 285 | Dual Denoising Autoencoder Feature Learning for Cancer Diagnosis. 2019, | |
| 284 | Weighted SVMBoost based Hybrid Rule Extraction Methods for Software Defect Prediction. 2019 , 6, 51-60 | |
| 283 | Data Driven Detection of Railway Point Machines Failures. 2019 , | 2 |
| 282 | An Ensemble Approach for Suspicious Traffic Detection from High Recall Network Alerts. 2019 , | |
| 281 | WOTBoost: Weighted Oversampling Technique in Boosting for imbalanced learning. 2019, | 6 |
| 280 | . 2019, | 30 |
| 279 | High-Resolution Remote Sensing Imagery Classification of Imbalanced Data Using Multistage Sampling Method and Deep Neural Networks. 2019 , 11, 2523 | 7 |
| 278 | Fair Loss: Margin-Aware Reinforcement Learning for Deep Face Recognition. 2019, | 15 |
| 277 | Gaussian Affinity for Max-Margin Class Imbalanced Learning. 2019, | 26 |
| 276 | Ensemble Learning Approach on Indonesian Fake News Classification. 2019, | 6 |

| 275 | Computational Sleep Behavior Analysis: A Survey. IEEE Access, 2019, 7, 142421-142440 | 3.5 | 22 |
|-----|--|-----|----|
| 274 | K-Segments Under Bagging approach: An experimental Study on Extremely Imbalanced Data Classification. 2019 , | | 1 |
| 273 | Anomaly-based Intrusion Detection in Industrial Data with SVM and Random Forests. 2019, | | 22 |
| 272 | Study of Aspect level Sentiment Analysis and Word Embeddings. 2019 , | | |
| 271 | Clustering-Based Prototype Generation for Imbalance Classification. 2019, | | 1 |
| 270 | Mild cognitive impairment understanding: an empirical study by data-driven approach. 2019 , 20, 481 | | 3 |
| 269 | Deep Learning-Based Strategy For Macromolecules Classification with Imbalanced Data from Cellular Electron Cryotomography. 2019 , | | |
| 268 | A preprocessing method combined with an ensemble framework for the multiclass imbalanced data classification. 2019 , 1-8 | | |
| 267 | Progressive Improved Convolutional Neural Network for Avionics Fault Diagnosis. <i>IEEE Access</i> , 2019 , 7, 177362-177375 | 3.5 | 8 |
| 266 | Predicting long-term type 2 diabetes with support vector machine using oral glucose tolerance test. 2019 , 14, e0219636 | | 21 |
| 265 | A weighted pattern matching approach for classification of imbalanced data with a fireworks-based algorithm for feature selection. 2019 , 31, 143-168 | | 16 |
| 264 | Ensemble machine learning models for aviation incident risk prediction. 2019 , 116, 48-63 | | 54 |
| 263 | A Granular Resampling Method and Adaptive Speculative Mechanism-Based Energy-Efficient Architecture for Multiclass Heartbeat Classification. 2019 , 38, 2172-2176 | | 3 |
| 262 | Quasi-linear SVM classifier with segmented local offsets for imbalanced data classification. 2019 , 14, 289-296 | | 1 |
| 261 | A Novel Rotation Forest Modality Based on Hybrid NNs: RF (ScPSO-NN). 2019 , 31, 235-251 | | 4 |
| 260 | Equation of SVM-rebalancing: the point-normal form of a plane for class imbalance problem. 2019 , 31, 6013-6025 | | 2 |
| 259 | Diagnosis system for imbalanced multi-minority medical dataset. 2019 , 23, 4789-4799 | | 10 |
| 258 | Imbalanced Deep Learning by Minority Class Incremental Rectification. 2019 , 41, 1367-1381 | | 96 |

| 257 | Granular support vector machine: a review. 2019 , 51, 19-32 | 19 |
|-----|---|-----|
| 256 | Self-Paced Balance Learning for Clinical Skin Disease Recognition. 2020 , 31, 2832-2846 | 26 |
| 255 | Benchmark Revision for HOG-SVM Pedestrian Detector Through Reinvigorated Training and Evaluation Methodologies. 2020 , 21, 1277-1287 | 8 |
| 254 | SentiDiff: Combining Textual Information and Sentiment Diffusion Patterns for Twitter Sentiment Analysis. 2020 , 32, 2026-2039 | 34 |
| 253 | Adaptive over-sampling method for classification with application to imbalanced datasets in aluminum electrolysis. 2020 , 32, 7183-7199 | 2 |
| 252 | Logistic Regression Confined by Cardinality-Constrained Sample and Feature Selection. 2020 , 42, 1713-1728 | 19 |
| 251 | A hybrid knowledge and ensemble classification approach for prediction of venous thromboembolism. 2020 , 37, e12388 | 2 |
| 250 | An efficient classification approach in imbalanced datasets for intrinsic plagiarism detection. 2020 , 11, 503-515 | 4 |
| 249 | Learning imbalanced datasets based on SMOTE and Gaussian distribution. 2020 , 512, 1214-1233 | 49 |
| 248 | A hybrid system for imbalanced data mining. 2020 , 26, 3043-3047 | 2 |
| 247 | A new bearing fault diagnosis method based on modified convolutional neural networks. 2020 , 33, 439-447 | 69 |
| 246 | SMOTE based class-specific extreme learning machine for imbalanced learning. <i>Knowledge-Based Systems</i> , 2020 , 187, 104814 | 40 |
| 245 | Class-imbalanced dynamic financial distress prediction based on Adaboost-SVM ensemble combined with SMOTE and time weighting. 2020 , 54, 128-144 | 113 |
| 244 | Early Detection of Human Epileptic Seizures Based on Intracortical Microelectrode Array Signals. 2020 , 67, 817-831 | 7 |
| 243 | A renewable fusion fault diagnosis network for the variable speed conditions under unbalanced samples. <i>Neurocomputing</i> , 2020 , 379, 12-29 | 21 |
| 242 | A Novel Hybrid Approach for Chronic Disease Classification. 2020 , 15, 1-19 | 3 |
| 241 | A reduced universum twin support vector machine for class imbalance learning. 2020 , 102, 107150 | 49 |
| 240 | Multiobjective hybrid monarch butterfly optimization for imbalanced disease classification problem. 2020 , 11, 1423-1451 | 8 |

| 239 | Adaptive Cross-Domain Feature Extraction Method and Its Application on Machinery Intelligent Fault Diagnosis Under Different Working Conditions. <i>IEEE Access</i> , 2020 , 8, 535-546 | 3.5 | 6 |
|-----|--|-----|----|
| 238 | Introduction. 2020 , 3-12 | | |
| 237 | Learning Algorithms. 2020 , 13-35 | | 1 |
| 236 | Deep Learning Models. 2020 , 115-168 | | |
| 235 | Robust Speaker Verification. 2020 , 169-216 | | |
| 234 | Future Direction. 2020 , 266-275 | | |
| 233 | Predicting popular contributors in innovation crowds: the case of My Starbucks Ideas. 2020 , ahead-of-print, | | |
| 232 | An Attention Based CNN-LSTM Approach for Sleep-Wake Detection With Heterogeneous Sensors. 2021 , 25, 3270-3277 | | 10 |
| 231 | Neuro-evolutionary models for imbalanced classification problems. 2020, | | 4 |
| 230 | Domain Adaptation. 2020 , 217-248 | | O |
| 229 | Towards accurate and unbiased imaging-based differentiation of Parkinson's disease, progressive supranuclear palsy and corticobasal syndrome. 2020 , 2, fcaa051 | | 7 |
| 228 | Dimension Reduction and Data Augmentation. 2020 , 249-265 | | |
| 227 | Under-Sampling and Feature Selection Algorithms for S2SMLP. <i>IEEE Access</i> , 2020 , 8, 191803-191814 | 3.5 | 2 |
| 226 | Influence of human activity on landslide susceptibility development in the Three Gorges area. 2020 , 104, 2115-2151 | | 10 |
| 225 | Machine Learning Models. 2020 , 36-112 | | 0 |
| 224 | Use of Machine Learning Techniques to Create a Credit Score Model for Airtime Loans. 2020 , 13, 180 | | 3 |
| 223 | Constrained Oversampling: An Oversampling Approach to Reduce Noise Generation in Imbalanced Datasets with Class Overlapping. <i>IEEE Access</i> , 2020 , 1-1 | 3.5 | 4 |
| 222 | Human Attribute Recognition A Comprehensive Survey. 2020 , 10, 5608 | | 4 |

| 221 | Generative Adversarial Network for Class-Conditional Data Augmentation. 2020, 10, 8415 | | 1 |
|-----|---|-----|----|
| 220 | Identification of Potential Type II Diabetes in a Large-Scale Chinese Population Using a Systematic Machine Learning Framework. 2020 , 2020, 6873891 | | 4 |
| 219 | Adjusting Decision Boundary for Class Imbalanced Learning. IEEE Access, 2020, 8, 81674-81685 | 3.5 | 8 |
| 218 | Classification Problem in Imbalanced Datasets. 2020 , | | 5 |
| 217 | Automated Detection of Posterior Myocardial Infarction From VCG Signals Using Stationary Wavelet Transform Based Features. 2020 , 4, 1-4 | | 9 |
| 216 | A Deep Convolutional Neural Network for Wafer Defect Identification on an Imbalanced Dataset in Semiconductor Manufacturing Processes. 2020 , 33, 436-444 | | 33 |
| 215 | A Novel 2-D Current Signal-Based Residual Learning With Optimized Softmax to Identify Faults in Ball Screw Actuators. <i>IEEE Access</i> , 2020 , 8, 115299-115313 | 3.5 | 7 |
| 214 | A novel fuzzy credit risk assessment decision support system based on the python web framework. 2020 , 37, 229-244 | | 1 |
| 213 | Biomedical Classification Problems Automatically Solved by Computational Intelligence Methods. <i>IEEE Access</i> , 2020 , 8, 101104-101117 | 3.5 | 1 |
| 212 | Development and Evaluation of a Machine Learning Prediction Model for Flap Failure in Microvascular Breast Reconstruction. 2020 , 27, 3466-3475 | | 9 |
| 211 | Deep reinforcement learning for imbalanced classification. <i>Applied Intelligence</i> , 2020 , 50, 2488-2502 | 4.9 | 31 |
| 210 | A novel random forest approach for imbalance problem in crime linkage. <i>Knowledge-Based Systems</i> , 2020 , 195, 105738 | 7.3 | 13 |
| 209 | . 2020 , 1-1 | | 3 |
| 208 | Preface. 2020 , xi-xiii | | |
| 207 | Exercises. 2020 , 276-288 | | |
| 206 | Index. 2020 , 307-310 | | |
| 205 | Non-Invasive Skin Cancer Diagnosis Using Hyperspectral Imaging for In-Situ Clinical Support. 2020 , 9, | | 10 |
| 204 | A Novel Ensemble Deep Learning Approach for Sleep-Wake Detection Using Heart Rate Variability and Acceleration. 2020 , 1-10 | | 5 |

| 203 | Simultaneous two-sample learning to address binary class imbalance problem in low-resource scenarios. 2020 , 45, 1 | | |
|-------------|---|-----|----|
| 202 | A robust, cost-effective and non-invasive computer-aided method for diagnosis three types of neurodegenerative diseases with gait signal analysis. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020 , 156, 107579 | 4.6 | 9 |
| 201 | A gradient boosting decision tree algorithm combining synthetic minority oversampling technique for lithology identification. 2020 , 85, WA147-WA158 | | 30 |
| 2 00 | A self-adaptive synthetic over-sampling technique for imbalanced classification. 2020 , 35, 923-943 | | 20 |
| 199 | A new concordant partial AUC and partial c statistic for imbalanced data in the evaluation of machine learning algorithms. 2020 , 20, 4 | | 36 |
| 198 | Fusing multi-scale context-aware information representation for automatic in-field pest detection and recognition. 2020 , 169, 105222 | | 28 |
| 197 | A parallel intelligent algorithm applied to predict students dropping out of university. 2020 , 76, 1049-1 | 062 | 4 |
| 196 | A comparison of different machine learning algorithms, types and placements of activity monitors for physical activity classification. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020 , 154, 107480 | 4.6 | 10 |
| 195 | Human Digital Twin for Fitness Management. IEEE Access, 2020, 8, 26637-26664 | 3.5 | 52 |
| 194 | FunEffector-Pred: Identification of Fungi Effector by Activate Learning and Genetic Algorithm Sampling of Imbalanced Data. <i>IEEE Access</i> , 2020 , 8, 57674-57683 | 3.5 | 4 |
| 193 | Ensembling Imbalanced-Spatial-Structured Support Vector Machine. 2021 , 17, 145-155 | | 2 |
| 192 | One-step spectral rotation clustering for imbalanced high-dimensional data. 2021 , 58, 102388 | | 5 |
| 191 | Application of Machine Learning Techniques in Mineral Classification for Scanning Electron Microscopy - Energy Dispersive X-Ray Spectroscopy (SEM-EDS) Images. 2021 , 200, 108178 | | 5 |
| 190 | RFCL: A new under-sampling method of reducing the degree of imbalance and overlap. 2021 , 24, 641-65 | 54 | 3 |
| 189 | Feature Extraction, Selection, and K-Nearest Neighbors Algorithm for Shark Behavior Classification Based on Imbalanced Dataset. 2021 , 21, 6429-6439 | | 2 |
| 188 | Multiset Feature Learning for Highly Imbalanced Data Classification. 2021 , 43, 139-156 | | 36 |
| 187 | Adaptive Selecting and Learning Network and a New Benchmark for Imbalanced Fine-Grained Ship Classification. <i>IEEE Access</i> , 2021 , 1-1 | 3.5 | |
| 186 | . IEEE Access, 2021 , 9, 35136-35150 | 3.5 | 1 |

| 185 | Granular multiple kernel learning for identifying RNA-binding protein residues via integrating sequence and structure information. 2021 , 33, 11387 | | 15 |
|-----|--|----|----|
| 184 | Dynamic swarm class rebalancing for the process mining of rare events. 2021 , 77, 7549-7583 | | |
| 183 | A Novel Adaptive Minority Oversampling Technique for Improved Classification in Data Imbalanced Scenarios. 2021 , | | 1 |
| 182 | In-filter Computing For Designing Ultra-light Acoustic Pattern Recognizers. 2021, 1-1 | | |
| 181 | An Attention-Based Deep Learning Approach for Sleep Stage Classification With Single-Channel EEG. 2021 , 29, 809-818 | | 39 |
| 180 | Imbalance in Learning Chest X-Ray Images for COVID-19 Detection. 2021 , 107-119 | | 1 |
| 179 | Multilabel Sentiment Prediction by Addressing Imbalanced Class Problem Using Oversampling. 2021 , 239-249 | | O |
| 178 | Classifying imbalanced data using SMOTE based class-specific kernelized ELM. 2021 , 12, 1255-1280 | | 3 |
| 177 | Effects of Class Imbalance Problem in Convolutional Neural Network Based Image Classification. 2021 , 181-191 | | 1 |
| 176 | Physical Layer Security: Detection of Active Eavesdropping Attacks by Support Vector Machines. <i>IEEE Access</i> , 2021 , 9, 31595-31607 | .5 | 9 |
| 175 | CSSG: A cost-sensitive stacked generalization approach for software defect prediction. 2021 , 31, e1761 | | 4 |
| 174 | Machine Learning Methods for Preterm Birth Prediction: A Review. <i>Electronics (Switzerland</i>), 2021 , 10, 586 | .6 | 4 |
| 173 | Prediction of Drug-Induced Long QT Syndrome Using Machine Learning Applied to Harmonized Electronic Health Record Data. 2021 , 26, 335-340 | | 3 |
| 172 | Classifying multiclass imbalanced data using generalized class-specific extreme learning machine. 2021 , 10, 259-281 | | |
| 171 | Supervised or unsupervised learning? Investigating the role of pattern recognition assumptions in the success of binary predictive prescriptions. <i>Neurocomputing</i> , 2021 , 434, 165-193 | -4 | 2 |
| 170 | Automatic classification of heterogeneous slit-illumination images using an ensemble of cost-sensitive convolutional neural networks. 2021 , 9, 550 | | 1 |
| 169 | Data Driven Model to Predict Cylinder Head Fatigue Failure. | | |
| 168 | Kernel Based Data-Adaptive Support Vector Machines for Multi-Class Classification. 2021 , 9, 936 | | 3 |

| 167 | Machine Learning Methods and Synthetic Data Generation to Predict Large Wildfires. 2021, 21, | 2 |
|-----|---|----|
| 166 | Machine Learning Approaches to Retrieve High-Quality, Clinically Relevant Evidence From the Biomedical Literature: Systematic Review (Preprint). | O |
| 165 | . 2021, | O |
| 164 | Multi-NystrEn Method Based on Multiple Kernel Learning for Large Scale Imbalanced Classification. 2021 , 2021, 9911871 | |
| 163 | Using comprehensive machine-learning models to classify complex morphological characters. 2021 , 11, 10421-10431 | 1 |
| 162 | Identification of subtypes of anticancer peptides based on sequential features and physicochemical properties. 2021 , 11, 13594 | 2 |
| 161 | Generative adversarial networks based remaining useful life estimation for IIoT. 2021, 92, 107195 | 3 |
| 160 | Quad division prototype selection-based k-nearest neighbor classifier for click fraud detection from highly skewed user click dataset. 2021 , 28, 101011-101011 | 1 |
| 159 | Fault Diagnosis of an Autonomous Vehicle With an Improved SVM Algorithm Subject to Unbalanced Datasets. 2021 , 68, 6248-6256 | 61 |
| 158 | Addressing data imbalance problems in ligand-binding site prediction using a variational autoencoder and a convolutional neural network. 2021 , 22, | 2 |
| 157 | A Review of Fuzzy and Pattern-Based Approaches for Class Imbalance Problems. 2021 , 11, 6310 | 2 |
| 156 | Cal-Net: Jointly Learning Classification and Calibration On Imbalanced Binary Classification Tasks. 2021 , | O |
| 155 | A comprehensive review and analysis of supervised-learning and soft computing techniques for stress diagnosis in humans. 2021 , 134, 104450 | 18 |
| 154 | A novel oversampling technique for class-imbalanced learning based on SMOTE and natural neighbors. 2021 , 565, 438-455 | 15 |
| 153 | COST-SENSITIVE MULTI-CLASS ADABOOST FOR UNDERSTANDING DRIVING BEHAVIOR BASED ON TELEMATICS. 2021 , 51, 719-751 | 4 |
| 152 | Novel multi-scale dilated CNN-LSTM for fault diagnosis of planetary gearbox with unbalanced samples under noisy environment. 2021 , 32, 124002 | 5 |
| 151 | COVID Mortality Prediction with Machine Learning Methods: A Systematic Review and Critical Appraisal. 2021 , 11, | 12 |
| 150 | Selecting the Suitable Resampling Strategy for Imbalanced Data Classification Regarding Dataset Properties. An Approach Based on Association Models. 2021 , 11, 8546 | 5 |

| 149 | Minimum class variance class-specific extreme learning machine for imbalanced classification. 2021 , 178, 114994 | | 2 |
|-----|---|-----|----|
| 148 | Machine Learning Approaches to Retrieve High-Quality, Clinically Relevant Evidence From the Biomedical Literature: Systematic Review. 2021 , 9, e30401 | | 4 |
| 147 | A fuzzy association rule-based classifier for imbalanced classification problems. 2021 , 577, 265-279 | | 4 |
| 146 | Metaheuristic least squares support vector machine-based lateral strength modelling of reinforced concrete columns subjected to earthquake loads. 2021 , 33, 748-758 | | 10 |
| 145 | Minimum variance-embedded kernelized extension of extreme learning machine for imbalance learning. 2021 , 119, 108069 | | 1 |
| 144 | Similarity-evaluation-based evolving of flexible neural trees for imbalanced classification. 2021 , 111, 107852 | | 1 |
| 143 | Intuitive Feature Engineering and Machine Learning Performance Improvement in the Banking Domain. <i>Communications in Computer and Information Science</i> , 2021 , 365-380 | 0.3 | |
| 142 | An enhanced ride sharing model based on human characteristics, machine learning recommender system, and user threshold time. 2021 , 12, 13-26 | | 1 |
| 141 | Detecting Mixing Services via Mining Bitcoin Transaction Network With Hybrid Motifs. 2021 , 1-13 | | 25 |
| 140 | An Imbalanced Fault Diagnosis Method for Rolling Bearing Based on Semi-Supervised Conditional Generative Adversarial Network With Spectral Normalization. <i>IEEE Access</i> , 2021 , 9, 27736-27747 | 3.5 | 11 |
| 139 | Developing a Simulated Online Model That Integrates GNSS, Accelerometer and Weather Data to Detect Parturition Events in Grazing Sheep: A Machine Learning Approach. 2021 , 11, | | 8 |
| 138 | A Novel Approach to Solve Class Imbalance Problem Using Noise Filter Method. 2020 , 486-496 | | 4 |
| 137 | Outlier Detection in Predictive Analytics for Energy Equipment. 2020 , 193-203 | | 3 |
| 136 | Multi-Class Support Vector Machine. 2014 , 23-48 | | 48 |
| 135 | Rare Category Exploration on Linear Time Complexity. Lecture Notes in Computer Science, 2015, 37-54 | 0.9 | 4 |
| 134 | Two-Stage Hybrid Extreme Learning Machine for Sequential Imbalanced Data. 2016 , 423-433 | | 2 |
| 133 | Adaptive Multi-objective Swarm Crossover Optimization for Imbalanced Data Classification. <i>Lecture Notes in Computer Science</i> , 2016 , 374-390 | 0.9 | 8 |
| 132 | Fine-to-Coarse Ranking in Ordinal and Imbalanced Domains: An Application to Liver Transplantation. <i>Lecture Notes in Computer Science</i> , 2017 , 525-537 | 0.9 | 1 |

| 131 | An Improved Algorithm for SVMs Classification of Imbalanced Data Sets. <i>Communications in Computer and Information Science</i> , 2009 , 108-118 | 0.3 | 5 |
|-----|--|------|----|
| 130 | Building Biomedical Text Classifiers under Sample Selection Bias. 2011 , 11-18 | | 2 |
| 129 | Balance Support Vector Machines Locally Using the Structural Similarity Kernel. <i>Lecture Notes in Computer Science</i> , 2011 , 112-123 | 0.9 | 2 |
| 128 | An Improved Incremental Learning Approach Based on SVM Model for Network Data Stream. 2012 , 277- | -282 | 1 |
| 127 | A Hybrid PSO-FSVM Model and Its Application to Imbalanced Classification of Mammograms. <i>Lecture Notes in Computer Science</i> , 2013 , 275-284 | 0.9 | 3 |
| 126 | Borderline Kernel Based Over-Sampling. <i>Lecture Notes in Computer Science</i> , 2013 , 472-481 | 0.9 | 4 |
| 125 | A SVM Method Trained by Improved Particle Swarm Optimization for Image Classification. <i>Communications in Computer and Information Science</i> , 2014 , 263-272 | 0.3 | 1 |
| 124 | Towards accurate and unbiased imaging based differentiation of Parkinson Disease, Progressive Supranuclear Palsy and Corticobasal Syndrome. | | 2 |
| 123 | Predicting long-term Type 2 Diabetes with Support Vector Machine using Oral Glucose Tolerance Test. | | 2 |
| 122 | Addressing Imbalance in Multi-Label Classification Using Weighted Cross Entropy Loss Function. 2020 , | | 2 |
| 121 | Deep Object Tracking with Shrinkage Loss. 2020 , PP, | | 18 |
| 120 | Balancing Prediction Errors for Robust Sentiment Classification. 2019 , 13, 1-21 | | 16 |
| 119 | Negative Confidence-Aware Weakly Supervised Binary Classification for Effective Review Helpfulness Classification. 2020 , | | Ο |
| 118 | Machine learning for biomedical literature triage. 2014 , 9, e115892 | | 22 |
| 117 | Mining Chemical Activity Status from High-Throughput Screening Assays. 2015 , 10, e0144426 | | 13 |
| 116 | Cancers Screening in an Asymptomatic Population by Using Multiple Tumour Markers. 2016 , 11, e01582 | 85 | 29 |
| 115 | Ant Programming Algorithms for Classification. 2014 , 107-128 | | 1 |
| 114 | Evolutionary Mahalanobis Distance-Based Oversampling for Multi-Class Imbalanced Data Classification. 2021 , 21, | | 1 |

| 113 | Sky and Ground Segmentation in the Navigation Visions of the Planetary Rovers. 2021, 21, | | 1 |
|-----|--|-----|---|
| 112 | A Rough-Set-Based Two-Class Classifier for Large Imbalanced Dataset. <i>Smart Innovation, Systems and Technologies</i> , 2010 , 641-651 | 0.5 | 4 |
| 111 | Support Vector Machine Algorithm for Imbalanced Data Learning. 2010, 15, 11-17 | | 4 |
| 110 | Restoring the Generalizability of SVM Based Decoding in High Dimensional Neuroimage Data. <i>Lecture Notes in Computer Science</i> , 2012 , 256-263 | 0.9 | O |
| 109 | An Interpretation of the Boundary Movement Method for Imbalanced Dataset Classification Based on Data Quality. <i>Smart Innovation, Systems and Technologies</i> , 2013 , 21-27 | 0.5 | |
| 108 | A Density-Based Backward Approach to Isolate Rare Events in Large-Scale Applications. <i>Lecture Notes in Computer Science</i> , 2013 , 249-264 | 0.9 | |
| 107 | Robust Speaker Modeling for Speaker Verification in Noisy Environments. 2014 , 77-114 | | |
| 106 | Weighted L1-Norm Support Vector Machine for the Classification of Highly Imbalanced Data. 2015 , 28, 9-21 | | 1 |
| 105 | Hierarchically penalized support vector machine for the classication of imbalanced data with grouped variables. 2016 , 29, 961-975 | | |
| 104 | Exploring Feature-Level Duplications on Imbalanced Data Using Stochastic Diffusion Search. <i>Lecture Notes in Computer Science</i> , 2017 , 305-313 | 0.9 | |
| 103 | Identifying weak signals in inhomogeneous neuronal images for large-scale tracing of neurites. | | 1 |
| 102 | Barricaded Boundary Minority Oversampling LS-SVM for a Biased Binary Classification. <i>Lecture Notes in Computer Science</i> , 2018 , 18-32 | 0.9 | |
| 101 | Applying deep learning for agricultural classification using multitemporal SAR Sentinel-1 for Camargue, France. 2018 , | | 2 |
| 100 | Classifier Learning from Imbalanced Corpus by Autoencoded Over-Sampling. <i>Lecture Notes in Computer Science</i> , 2019 , 16-29 | 0.9 | |
| 99 | A Novel Method for Highly Imbalanced Classification with Weighted Support Vector Machine. <i>Lecture Notes in Computer Science</i> , 2019 , 275-286 | 0.9 | 1 |
| 98 | Effects of Training Data Size and Class Imbalance on the Performance of Classifiers. <i>Communications in Computer and Information Science</i> , 2019 , 3-17 | 0.3 | |
| 97 | A new method for the objective assessment of ADAS based on multivariate time series classification. 2019 , 636-651 | 0.3 | 1 |
| 96 | Differential Evolution FPA-SVM for Target Classification in Foliage Environment Using Device-Free Sensing. <i>Lecture Notes in Electrical Engineering</i> , 2020 , 553-560 | 0.2 | |

| 95 | Credit Card Fraud Detection based on CSat-Related AdaBoost. 2019, | | 1 |
|----|---|-------|----|
| 94 | Boosting Granular Support Vector Machines for the Accurate Prediction of Protein-Nucleotide Binding Sites. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2019 , 22, 455-469 | 1.3 | О |
| 93 | Machine Learning for Speaker Recognition. 2020 , | | 6 |
| 92 | Conductor Galloping Detection on Imbalanced Dataset: SVM with Smart Sampling. 2020, | | O |
| 91 | Analyzing Customer Sentiments Using Machine Learning Techniques to Improve Business Performance. 2020 , | | 1 |
| 90 | Bayesian Sampler: Fairness in Sampling. 2020 , | | O |
| 89 | A NEW AUTO-SCORING ALGORITHM FOR BALANCE ASSESSMENT WITH WEARABLE IMU DEVICE BASED ON NONLINEAR MODEL. <i>Journal of Mechanics in Medicine and Biology</i> , 2020 , 20, 2040011 | 0.7 | 2 |
| 88 | Learning From Class Imbalance. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2020 , 109-129 | 0.4 | |
| 87 | Survival and Neural Models for Private Equity Exit Prediction. IFAC-PapersOnLine, 2020, 53, 16983-1698 | 880.7 | |
| 86 | DOS-GAN: A Distributed Over-Sampling Method Based on Generative Adversarial Networks for Distributed Class-Imbalance Learning. <i>Lecture Notes in Computer Science</i> , 2020 , 609-622 | 0.9 | O |
| 85 | Aligning Learning Materials and Assessment with Course Learning Outcomes in MOOCs Using Data Mining Techniques. <i>Smart Innovation, Systems and Technologies</i> , 2020 , 1-25 | 0.5 | 2 |
| 84 | Concomitant prediction of environmental fate and toxicity of chemical compounds. <i>Biology Methods and Protocols</i> , 2020 , 5, bpaa025 | 2.4 | 1 |
| 83 | Application of Image Segmentation and Convolutional Neural Network in Classification Algorithms for Mammary X-ray Molybdenum Target Image. <i>Lecture Notes in Electrical Engineering</i> , 2020 , 175-187 | 0.2 | 1 |
| 82 | An improved learning-based LSTM approach for lane change intention prediction subject to imbalanced data. <i>Transportation Research Part C: Emerging Technologies</i> , 2021 , 133, 103414 | 8.4 | 3 |
| 81 | Nowcasting significant wave height by hierarchical machine learning classification. <i>Ocean Engineering</i> , 2021 , 242, 110130 | 3.9 | О |
| 80 | Data Analytics for Solar Energy in Promoting Smart Cities. 2021 , 173-263 | | |
| 79 | Unachievable Region in Precision-Recall Space and Its Effect on Empirical Evaluation. 2012 , 2012, 349 | | 17 |
| 78 | Predictive Modeling for Pressure Ulcers from Intensive Care Unit Electronic Health Records. <i>AMIA Summits on Translational Science Proceedings</i> , 2015 , 2015, 82-6 | 1.1 | 4 |

| 77 | Machine Learning Fairness is Computationally Difficult and Algorithmically Unsatisfactorily Solved. 2021 , | | 1 |
|----|--|-----|----|
| 76 | Fluorescence and Photoacoustic Spectroscopy-Based Assessment of Mitochondrial Dysfunction in Oral Cancer Together with Machine Learning: A Pilot Study. <i>Analytical Chemistry</i> , 2021 , | 7.8 | 3 |
| 75 | Fault Diagnosis for Electro-Mechanical Actuators Based on STL-HSTA-GRU and SM. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-16 | 5.2 | 43 |
| 74 | Machine Learning Enhanced Decision-Making. 2021 , 1-41 | | |
| 73 | Performance assessment of selective machine learning techniques for improved PV array fault diagnosis. <i>Sustainable Energy, Grids and Networks</i> , 2022 , 29, 100582 | 3.6 | 2 |
| 72 | Data Imbalance in Landslide Susceptibility Zonation: A Case Study of Mandakini River Basin, Uttarakhand, India. 2020 , | | O |
| 71 | A federated learning based approach for loan defaults prediction. 2020, | | 2 |
| 70 | Graphical representation and variability quantification of handwriting signals: New tools for Parkinson disease detection. <i>Biocybernetics and Biomedical Engineering</i> , 2022 , 42, 158-172 | 5.7 | O |
| 69 | RDPVR: Random Data Partitioning with Voting Rule for Machine Learning from Class-Imbalanced Datasets. <i>Electronics (Switzerland)</i> , 2022 , 11, 228 | 2.6 | 4 |
| 68 | Fault diagnosis of rotating machinery based on combination of Wasserstein generative adversarial networks and long short term memory fully convolutional network. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022 , 191, 110826 | 4.6 | 1 |
| 67 | Learning from Imbalanced Healthcare Data Using Overlap Pattern Synthesis. <i>Lecture Notes on Data Engineering and Communications Technologies</i> , 2022 , 447-456 | 0.4 | |
| 66 | An Experimental Analysis for Credit Card Fraud Detection with Imbalanced and Machine Learning Techniques. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 539-550 | 0.2 | |
| 65 | Text Mining for U.S. Pension De-Risking Analysis. <i>Risks</i> , 2022 , 10, 41 | 1.6 | |
| 64 | Radiomics-Based Method for Predicting the Glioma Subtype as Defined by Tumor Grade, IDH Mutation, and 1p/19q Codeletion <i>Cancers</i> , 2022 , 14, | 6.6 | O |
| 63 | A Seed-Guided Latent Dirichlet Allocation Approach to Predict the Personality of Online Users Using the PEN Model. <i>Algorithms</i> , 2022 , 15, 87 | 1.8 | О |
| 62 | Please be Polite: Towards building a Politeness Adaptive Dialogue System for Goal-oriented Conversations. <i>Neurocomputing</i> , 2022 , | 5.4 | O |
| 61 | A Machine Learning Based Framework to Identify and Classify Non-alcoholic Fatty Liver Disease in a Large-Scale Population <i>Frontiers in Public Health</i> , 2022 , 10, 846118 | 6 | О |
| 60 | A reliable solder joint inspection method based on a light-weight point cloud network and modulated loss. <i>Neurocomputing</i> , 2022 , 488, 315-327 | 5.4 | 1 |

| 59 | KNN weighted reduced universum twin SVM for class imbalance learning. <i>Knowledge-Based Systems</i> , 2022 , 245, 108578 | 7-3 | Ο |
|----|---|------|---|
| 58 | Classification of Quranic Topics Using SMOTE Technique. 2021 , | | O |
| 57 | Lifting up Imbalanced Data Classification to SVM Based Ensemble Level on Oversampling Feature Spaces. 2021 , | | |
| 56 | Towards automated in vivo parcellation of the human cerebral cortex using supervised classification of magnetic resonance fingerprinting residuals <i>Cerebral Cortex</i> , 2022 , | 5.1 | O |
| 55 | Stop Oversampling for Class Imbalance Learning: A Critical Approach Review. SSRN Electronic Journal, | 1 | |
| 54 | A novel synthetic minority oversampling technique based on relative and absolute densities for imbalanced classification. <i>Applied Intelligence</i> , 1 | 4.9 | 1 |
| 53 | Distribution Bias Aware Collaborative Generative Adversarial Network for Imbalanced Deep Learning in Industrial IoT. <i>IEEE Transactions on Industrial Informatics</i> , 2022 , 1-1 | 11.9 | 1 |
| 52 | Stop Oversampling for Class Imbalance Learning: A Review. <i>IEEE Access</i> , 2022 , 10, 47643-47660 | 3.5 | 4 |
| 51 | Digital Forensics AI: Evaluating, Standardizing and Optimizing Digital Evidence Mining Techniques. <i>KI - Kunstliche Intelligenz</i> , 1 | 1.8 | 1 |
| 50 | Mining Hard Samples Locally And Globally For Improved Speech Separation. 2022, | | |
| 49 | PF-SMOTE: A novel parameter-free SMOTE for imbalanced datasets. <i>Neurocomputing</i> , 2022 , | 5.4 | 1 |
| 48 | Optimizing neural network based on cuckoo search and invasive weed optimization using extreme learning machine approach. <i>Neuroscience Informatics</i> , 2022 , 2, 100075 | | 1 |
| 47 | Analysis of Acoustic Emission Signal for Prediction of Corrosion on Carbon Steel Pipelines. 2021, | | |
| 46 | A Review on Unbalanced Data Classification. Algorithms for Intelligent Systems, 2022, 197-208 | 0.5 | |
| 45 | Evolutionary Ensemble Adversarial Learning for Identifying Terrorists Among High-Speed Rail Passengers. <i>SSRN Electronic Journal</i> , | 1 | |
| 44 | Probability Quantization Model for Sample-to-Sample Stochastic Sampling. <i>Arabian Journal for Science and Engineering</i> , | 2.5 | |
| 43 | A New Classifier for Imbalanced Data Based on a Generalized Density Ratio Model. <i>Communications in Mathematics and Statistics</i> , | 0.5 | |
| 42 | Internet of Things resource monitoring through proactive fault prediction. <i>Computers and Industrial Engineering</i> , 2022 , 169, 108265 | 6.4 | |

| 41 | Majority-to-minority resampling for boosting-based classification under imbalanced data. <i>Applied Intelligence</i> , | 4.9 | |
|----|--|-----|---|
| 40 | Deep Imbalanced Data Learning Approach for Video Anomaly Detection. 2022, | | |
| 39 | RLMD-PA: A Reinforcement Learning-Based Myocarditis Diagnosis Combined with a Population-Based Algorithm for Pretraining Weights. <i>Contrast Media and Molecular Imaging</i> , 2022 , 2022, 1-15 | 3.2 | 1 |
| 38 | GOS: A Genetic OverSampling Algorithm for Classification of Quranic Verses. 2022, | | |
| 37 | Keypad entry inference with sensor fusion from mobile and smart wearables. <i>Computers and Security</i> , 2022 , 121, 102837 | 4.9 | |
| 36 | ML-Based Radio Resource Management in 5G and Beyond Networks: A Survey. 2022 , 10, 83507-83528 | | 2 |
| 35 | Credit card fraud detection based on self-paced ensemble neural network. 2022, | | |
| 34 | Dengesiz Veri Kīheleriyle Sāflandāmada Geliān Trendler: Ierlemenin Bibliyometrik Analizi. 2022 , 15, 275-288 | | 1 |
| 33 | Accurate Evaluation of Feature Contributions for Sentinel Lymph Node Status Classification in Breast Cancer. 2022 , 12, 7227 | | 0 |
| 32 | A Novel Hybrid Sampling Method ESMOTE+SSLM for Handling the Problem of Class Imbalance with Overlap in Financial Distress Detection. | | |
| 31 | Information propagation on cyber, relational and physical spaces about covid-19 vaccine: Using social media and splatial framework. 2022 , 98, 101887 | | Ο |
| 30 | A dual-stream deep neural network integrated with adaptive boosting for sleep staging. 2023 , 79, 1041 | 50 | 1 |
| 29 | A Hierarchical Bayes-Based Evolutionary Ensemble Classification Algorithm. 2022, | | O |
| 28 | A simplified design of a cEEGrid ear-electrode adapter for the OpenBCI biosensing platform. 2022 , 12, e00357 | | O |
| 27 | A non-convex robust small sphere and large margin support vector machine for imbalanced data classification. | | Ο |
| 26 | Differentiation of Geographical Origin of White and Brown Rice Samples Using NMR Spectroscopy Coupled with Machine Learning Techniques. 2022 , 12, 1012 | | Ο |
| 25 | Inverse free reduced universum twin support vector machine for imbalanced data classification. 2023 , 157, 125-135 | | 1 |
| 24 | Machine Learning E nhanced Decision-Making. 2022 , 477-517 | | O |

| 23 | An Always-On tinyML Acoustic Classifier for Ecological Applications. 2022, | O |
|----|---|---|
| 22 | Computational Microarray Gene Selection Model Using Metaheuristic Optimization Algorithm for Imbalanced Microarrays Based on Bagging and Boosting Techniques. 2023 , 58-71 | O |
| 21 | Multi-Layer Hybrid (MLH) balancing technique: A combined approach to remove data imbalance. 2023 , 143, 102105 | O |
| 20 | Subspace-based minority oversampling for imbalance classification. 2023 , 621, 371-388 | O |
| 19 | Minority-prediction-probability-based oversampling technique for imbalanced learning. 2023 , 622, 1273-1295 | O |
| 18 | A Novel Framework for NTL Detection in Electric Distribution Systems. 2022 , 149-170 | O |
| 17 | Improving robotic hand control via adaptive Fuzzy-PI controller using classification of EMG signals. 2022 , 8, e11931 | O |
| 16 | Handling data imbalance in machine learning based landslide susceptibility mapping: a case study of Mandakini River Basin, North-Western Himalayas. | O |
| 15 | Framework for imbalanced fault diagnosis of rolling bearing using autoencoding generative adversarial learning. 2023 , 45, | O |
| 14 | Deep Reinforcement Learning Based on Balanced Stratified Prioritized Experience Replay for Customer Credit Scoring in Peer-to-Peer Lending. | O |
| 13 | AOH-Senti: Aspect-Oriented Hybrid Approach to Sentiment Analysis of Students[Feedback. 2023 , 4, | 1 |
| 12 | Automated Detection of Type 2 Diabetes with Imbalanced and Machine Learning Methods. 2023 , 29-40 | O |
| 11 | SmOOD: Smoothness-based Out-of-Distribution Detection Approach for Surrogate Neural Networks in Aircraft Design. 2022 , | O |
| 10 | A More Efficient Approach for Pedestrian Attribute Recognition. 2022 , | O |
| 9 | Undersampling of approaching the classification boundary for imbalance problem. | O |
| 8 | Machine Learning Techniques to Detect Failure in Hard Disk Drive Test Process. 2022 , | O |
| 7 | An adaptive loss backward feature elimination method for class-imbalanced and mixed-type data in medical diagnosis. 2023 , 236, 104809 | O |
| 6 | Balanced incremental deep reinforcement learning based on variational autoencoder data augmentation for customer credit scoring. 2023 , 122, 106056 | O |

CITATION REPORT

| 5 | TFSFB: Two-stage feature selection via fusing fuzzy multi-neighborhood rough set with binary whale optimization for imbalanced data. 2023 , 95, 91-108 | O |
|---|---|---|
| 4 | Uncertainty-Aware Behavior Modeling and Quantitative Safety Evaluation for Automatic Flight Control Systems. 2022 , | O |
| 3 | WeightFace: weight adaptive scaling loss for face recognition. | O |
| 2 | Transfer Learning in Complex Environments. 2023 , 225-240 | O |
| 1 | Hospital mortality prediction in traumatic injuries patients: comparing different SMOTE-based machine learning algorithms. 2023 , 23, | O |