

CITATION REPORT

List of articles citing

Advanced nonparametric tests for multiple comparisons in the design of experiments in computational intelligence and data mining: Experimental analysis of power

DOI: 10.1016/j.ins.2009.12.010

Information Sciences, 2010, 180, 2044-2064.

Source: <https://exaly.com/paper-pdf/48383581/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
1418	Analysis of an evolutionary RBFN design algorithm, CO2RBFN, for imbalanced data sets. 2010 , 31, 2375-2388		20
1417	Solving multi-class problems with linguistic fuzzy rule based classification systems based on pairwise learning and preference relations. 2010 , 161, 3064-3080		53
1416	Improving the performance of fuzzy rule-based classification systems with interval-valued fuzzy sets and genetic amplitude tuning. <i>Information Sciences</i> , 2010 , 180, 3674-3685	7.7	90
1415	A preliminary study on overlapping and data fracture in imbalanced domains by means of Genetic Programming-based feature extraction. 2010 ,		12
1414	IPADE: Iterative prototype adjustment for nearest neighbor classification. 2010 , 21, 1984-90		43
1413	TESTING FOR REMAINING AUTOCORRELATION OF THE RESIDUALS IN THE FRAMEWORK OF FUZZY RULE-BASED TIME SERIES MODELLING. 2010 , 18, 371-387		6
1412	. 2011 , 19, 729-744		96
1411	Top-Down Induction of Fuzzy Pattern Trees. 2011 , 19, 241-252		47
1410	Temporal dynamics of cortical sources underlying spontaneous and peripherally evoked slow waves. 2011 , 193, 201-18		83
1409	New Results on Minimum Error Entropy Decision Trees. 2011 , 355-362		1
1408	C4.5 Consolidation Process: An Alternative to Intelligent Oversampling Methods in Class Imbalance Problems. 2011 , 74-83		3
1407	The impact of certain methodological choices on multivariate analysis of fMRI data with support vector machines. 2011 , 54, 1159-67		24
1406	Dealing with three uncorrelated criteria by many-objective genetic fuzzy systems. 2011 ,		1
1405	SMART ELECTROMAGNETIC SIMULATIONS: GUIDELINES FOR DESIGN OF EXPERIMENTS TECHNIQUE. 2011 , 31, 357-379		2
1404	WITHDRAWN: Distributed Estimation of Distribution Algorithms for continuous optimization: How does the exchanged information influence their behavior?. <i>Information Sciences</i> , 2011 ,	7.7	1
1403	On employing fuzzy modeling algorithms for the valuation of residential premises. <i>Information Sciences</i> , 2011 , 181, 5123-5142	7.7	46
1402	Enhanced opposition-based differential evolution for solving high-dimensional continuous optimization problems. 2011 , 15, 2127-2140		143

1401	Self-adaptive differential evolution algorithm using population size reduction and three strategies. 2011 , 15, 2157-2174		131
1400	REGAL-TC: a distributed genetic algorithm for concept learning based on REGAL and the treatment of counterexamples. 2011 , 15, 1389-1403		3
1399	A study on the medium-term forecasting using exogenous variable selection of the extra-virgin olive oil with soft computing methods. 2011 , 34, 331-346		2
1398	Evolutionary selection of hyperrectangles in nested generalized exemplar learning. 2011 , 11, 3032-3045		17
1397	Differential evolution for optimizing the positioning of prototypes in nearest neighbor classification. 2011 , 44, 901-916		98
1396	Who is going to win the next Association for the Advancement of Artificial Intelligence Fellowship Award? Evaluating researchers by mining bibliographic data. 2011 , 62, 2456-2470		17
1395	Enhancing particle swarm optimization using generalized opposition-based learning. <i>Information Sciences</i> , 2011 , 181, 4699-4714	7-7	271
1394	A genetic tuning to improve the performance of Fuzzy Rule-Based Classification Systems with Interval-Valued Fuzzy Sets: Degree of ignorance and lateral position. 2011 , 52, 751-766		99
1393	Intelligent data analysis and model interpretation with spectral analysis fuzzy symbolic modeling. 2011 , 52, 728-750		3
1392	An overview of ensemble methods for binary classifiers in multi-class problems: Experimental study on one-vs-one and one-vs-all schemes. 2011 , 44, 1761-1776		465
1391	A practical tutorial on the use of nonparametric statistical tests as a methodology for comparing evolutionary and swarm intelligence algorithms. 2011 , 1, 3-18		2857
1390	Tracking control of surface vessels via adaptive type-2 fuzzy logic control. 2011 ,		2
1389	Adaptive Differential Evolution with variable population size for solving high-dimensional problems. 2011 ,		14
1388	THE DEVELOPMENT OF A CONFLICT HAZARDOUS ASSESSMENT MODEL FOR EVALUATING URBAN INTERSECTION SAFETY / TRANSPORTO PRIEMONIBUSIDRIMO PAVOJAUS VERTINIMO MODELIO RAIDA, ANALIZUOJANT SUSIKIRTIMO TARKIAUGIMIESTO SANKRYDSE / E-		5
1387	Filter-Type Variable Selection Based on Information Measures for Regression Tasks. 2012 , 14, 323-343		7
1386	Artificial bee colony with mean mutation operator for better exploitation. 2012 ,		1
1385	On the characterization of QoS perceived by end-users of mobile voice services. 2012 ,		
1384	Genetic lateral tuning for subgroup discovery with fuzzy rules using the algorithm NMEEF-SD. 2012 , 5, 355-367		6

1383	IIVFDT: IGNORANCE FUNCTIONS BASED INTERVAL-VALUED FUZZY DECISION TREE WITH GENETIC TUNING. 2012 , 20, 1-30		26
1382	A Quantitative and Comparative Assessment of Unmixing-Based Feature Extraction Techniques for Hyperspectral Image Classification. 2012 , 5, 421-435		96
1381	SMOTE-RSB *: a hybrid preprocessing approach based on oversampling and undersampling for high imbalanced data-sets using SMOTE and rough sets theory. 2012 , 33, 245-265		232
1380	An experimental analysis of evolutionary heuristics for the biobjective traveling purchaser problem. 2012 , 199, 305-341		13
1379	Integrating a differential evolution feature weighting scheme into prototype generation. 2012 , 97, 332-343		21
1378	Dynamic fusion method using Localized Generalization Error Model. <i>Information Sciences</i> , 2012 , 217, 1-20	7·7	20
1377	Tracking Particle Swarm Optimizers: An adaptive approach through multinomial distribution tracking with exponential forgetting. 2012 ,		5
1376	Time series modeling and forecasting using memetic algorithms for regime-switching models. 2012 , 23, 1841-7		10
1375	Disturbing Neighbors Ensembles of Trees for Imbalanced Data. 2012 ,		1
1374	A Mechanism to Improve the Interpretability of Linguistic Fuzzy Systems with Adaptive Defuzzification based on the use of a Multi-objective Evolutionary Algorithm. 2012 , 5, 297-321		11
1373	FEATURE SELECTION AND GRANULARITY LEARNING IN GENETIC FUZZY RULE-BASED CLASSIFICATION SYSTEMS FOR HIGHLY IMBALANCED DATA-SETS. 2012 , 20, 369-397		28
1372	Evolving cognitive and social experience in Particle Swarm Optimization through Differential Evolution: A hybrid approach. <i>Information Sciences</i> , 2012 , 216, 50-92	7·7	97
1371	Study on the impact of partition-induced dataset shift on k-fold cross-validation. 2012 , 23, 1304-12		181
1370	A Review on Ensembles for the Class Imbalance Problem: Bagging-, Boosting-, and Hybrid-Based Approaches. 2012 , 42, 463-484		1372
1369	A novel fuzzy based approach for inducing diatom habitat models and discovering diatom indicating properties. 2012 , 7, 62-70		5
1368	Is dacia Logan Car Brand on the First Place of Romanian Youth Preferences? Testing the Influence of Advertising Campaigns with Nonparametric Statistics. 2012 , 58, 1344-1352		1
1367	Constraint projections for semi-supervised affinity propagation. 2012 , 36, 315-321		9
1366	Integrating instance selection, instance weighting, and feature weighting for nearest neighbor classifiers by coevolutionary algorithms. 2012 , 42, 1383-97		45

1365	A Co-evolutionary Framework for Nearest Neighbor Enhancement: Combining Instance and Feature Weighting with Instance Selection. 2012 , 176-187		1
1364	Generation of a probabilistic fuzzy rule base by learning from examples. <i>Information Sciences</i> , 2012 , 217, 21-30	7-7	9
1363	On the use of data filtering techniques for credit risk prediction with instance-based models. 2012 , 39, 13267-13276		18
1362	Some modifications to enhance the performance of Artificial Bee Colony. 2012 ,		4
1361	Surrounding neighborhood-based SMOTE for learning from imbalanced data sets. 2012 , 1, 347-362		30
1360	A Taxonomy and Experimental Study on Prototype Generation for Nearest Neighbor Classification. 2012 , 42, 86-100		171
1359	Multi-objective approach based on grammar-guided genetic programming for solving multiple instance problems. 2012 , 16, 955-977		4
1358	A real time traffic simulator utilizing an adaptive fuzzy inference mechanism by tuning fuzzy parameters. 2012 , 36, 698-720		7
1357	An organic coating keeps orb-weaving spiders (Araneae, Araneoidea, Araneidae) from sticking to their own capture threads. 2012 , 50, 14-18		5
1356	Enhancing evolutionary instance selection algorithms by means of fuzzy rough set based feature selection. <i>Information Sciences</i> , 2012 , 186, 73-92	7-7	86
1355	Eigenclassifiers for combining correlated classifiers. <i>Information Sciences</i> , 2012 , 187, 109-120	7-7	8
1354	On the use of multi neighbourhood structures within a Tabu-based memetic approach to university timetabling problems. <i>Information Sciences</i> , 2012 , 191, 146-168	7-7	36
1353	On the use of cross-validation for time series predictor evaluation. <i>Information Sciences</i> , 2012 , 191, 192-213		331
1352	Effective search for Pittsburgh learning classifier systems via estimation of distribution algorithms. <i>Information Sciences</i> , 2012 , 198, 100-117	7-7	7
1351	Biological invasion inspired migration in distributed evolutionary algorithms. <i>Information Sciences</i> , 2012 , 207, 50-65	7-7	36
1350	Analysis of preprocessing vs. cost-sensitive learning for imbalanced classification. Open problems on intrinsic data characteristics. 2012 , 39, 6585-6608		192
1349	Evolutionary algorithms for the design of grid-connected PV-systems. 2012 , 39, 8086-8094		21
1348	Exploring the behaviour of base classifiers in credit scoring ensembles. 2012 , 39, 10244-10250		77

1347	Evolutionary-based selection of generalized instances for imbalanced classification. 2012 , 25, 3-12	99
1346	Mining interestingness measures for string pattern mining. 2012 , 25, 45-50	7
1345	An improved swarm optimized functional link artificial neural network (ISO-FLANN) for classification. 2012 , 85, 1333-1345	104
1344	EVOR-STACK: A label-dependent evolutive stacking on remote sensing data fusion. 2012 , 75, 115-122	5
1343	Cost-conscious comparison of supervised learning algorithms over multiple data sets. 2012 , 45, 1772-1781	30
1342	Comparing Fuzzy Partitions: A Generalization of the Rand Index and Related Measures. 2012 , 20, 546-556	74
1341	Prototype selection for nearest neighbor classification: taxonomy and empirical study. 2012 , 34, 417-35	449
1340	Learning-enhanced differential evolution for numerical optimization. 2012 , 16, 303-330	41
1339	Learnable tabu search guided by estimation of distribution for maximum diversity problems. 2012 , 16, 711-728	10
1338	The quest for the optimal class distribution: an approach for enhancing the effectiveness of learning via resampling methods for imbalanced data sets. 2013 , 2, 45-63	12
1337	Protein structure prediction using distributed parallel particle swarm optimization. 2013 , 12, 29-41	6
1336	IVTURS: A Linguistic Fuzzy Rule-Based Classification System Based On a New Interval-Valued Fuzzy Reasoning Method With Tuning and Rule Selection. 2013 , 21, 399-411	105
1335	HyDR-MI: A hybrid algorithm to reduce dimensionality in multiple instance learning. <i>Information Sciences</i> , 2013 , 222, 282-301	7-7 16
1334	FRASel: a consensus of feature ranking methods for time series modelling. 2013 , 17, 1489-1510	3
1333	Depth-first heuristic search for the job shop scheduling problem. 2013 , 206, 265-296	14
1332	Accelerating artificial bee colony algorithm by using an external archive. 2013 ,	1
1331	An efficient adaptive fuzzy inference system for complex and high dimensional regression problems in linguistic fuzzy modelling. 2013 , 54, 42-52	13
1330	Classifier fusion with interval-valued weights. 2013 , 34, 1623-1629	19

1329	Making Accurate Credit Risk Predictions with Cost-Sensitive MLP Neural Networks. 2013 , 1-8		6
1328	MOGA-based fuzzy data mining with taxonomy. 2013 , 54, 53-65		17
1327	FRPS: A Fuzzy Rough Prototype Selection method. 2013 , 46, 2770-2782		38
1326	Evaluating the perceived and estimated quality in use of Web 2.0 applications. 2013 , 86, 3039-3059		45
1325	A harmony search algorithm for nurse rostering problems. <i>Information Sciences</i> , 2013 , 233, 126-140	7.7	60
1324	Diversity enhanced particle swarm optimization with neighborhood search. <i>Information Sciences</i> , 2013 , 223, 119-135	7.7	273
1323	An interpretable classification rule mining algorithm. <i>Information Sciences</i> , 2013 , 240, 1-20	7.7	39
1322	Regularized Gaussian Mixture Model based discretization for gene expression data association mining. 2013 , 39, 607-613		6
1321	A two-phase heuristic for the energy-efficient scheduling of independent tasks on computational grids. 2013 , 16, 421-433		20
1320	An Adaptive Differential Evolution Algorithm Based on New Diversity. 2013 , 6, 1094-1107		1
1319	A Novel Enhanced Particle Swarm Optimization Method with Diversity and Neighborhood Search. 2013 ,		1
1318	Gaussian Bare-Bones Differential Evolution. 2013 , 43, 634-47		252
1317	Parallel differential evolution with self-adapting control parameters and generalized opposition-based learning for solving high-dimensional optimization problems. 2013 , 73, 62-73		79
1316	A cluster-based differential evolution algorithm with external archive for optimization in dynamic environments. 2013 , 43, 881-97		121
1315	Optimal IPFC signal selection and damping controller design using a novel current injection model in a multi-machine power system. 2013 , 44, 461-470		11
1314	On the use of evolutionary feature selection for improving fuzzy rough set based prototype selection. 2013 , 17, 223-238		27
1313	A hybrid self-adaptive bees algorithm for examination timetabling problems. 2013 , 13, 3608-3620		13
1312	A memetic approach to construct transductive discrete support vector machines. 2013 , 230, 581-595		4

1311	Comparison of metaheuristic strategies for peakbin selection in proteomic mass spectrometry data. <i>Information Sciences</i> , 2013 , 222, 229-246	7.7	11
1310	Repairing fractures between data using genetic programming-based feature extraction: A case study in cancer diagnosis. <i>Information Sciences</i> , 2013 , 222, 805-823	7.7	22
1309	The heterogeneous multi-factory production network scheduling with adaptive communication policy and parallel machine. <i>Information Sciences</i> , 2013 , 219, 181-196	7.7	48
1308	Developing Domain-Knowledge Evolutionary Algorithms for Network-on-Chip Application Mapping. 2013 , 37, 65-78		6
1307	Effect of Denoising in Band Selection for Regression Tasks in Hyperspectral Datasets. 2013 , 6, 473-481		10
1306	Multiobjective genetic classifier selection for random oracles fuzzy rule-based classifier ensembles: How beneficial is the additional diversity?. 2013 , 54, 3-21		19
1305	The CASH algorithm-cost-sensitive attribute selection using histograms. <i>Information Sciences</i> , 2013 , 222, 247-268	7.7	25
1304	MEFES: An evolutionary proposal for the detection of exceptions in subgroup discovery. An application to Concentrating Photovoltaic Technology. 2013 , 54, 73-85		14
1303	. 2013 , 25, 734-750		284
1302	A novel hybrid genetic algorithm with Tabu search for optimizing multi-dimensional functions and point pattern recognition. <i>Information Sciences</i> , 2013 , 221, 28-48	7.7	12
1301	Effective search for genetic-based machine learning systems via estimation of distribution algorithms and embedded feature reduction techniques. 2013 , 113, 105-121		13
1300	EUSBoost: Enhancing ensembles for highly imbalanced data-sets by evolutionary undersampling. 2013 , 46, 3460-3471		242
1299	Differential Evolution for automatic rule extraction from medical databases. 2013 , 13, 1265-1283		47
1298	Adaptive Memetic Differential Evolution with Global and Local neighborhood-based mutation operators. <i>Information Sciences</i> , 2013 , 241, 164-194	7.7	80
1297	Tackling the problem of classification with noisy data using Multiple Classifier Systems: Analysis of the performance and robustness. <i>Information Sciences</i> , 2013 , 247, 1-20	7.7	58
1296	Weighted data gravitation classification for standard and imbalanced data. 2013 , 43, 1672-87		69
1295	. 2013 , 21, 459-476		46
1294	. 2013 , 17, 666-685		136

1293	A modification to classical evolutionary programming by shifting strategy parameters. 2013 , 38, 175-192	8
1292	Differential evolution with nonlinear simplex method and dynamic neighborhood search. 2013 ,	
1291	A new approach based on enhanced PSO with neighborhood search for data clustering. 2013 ,	2
1290	On the suitability of resampling techniques for the class imbalance problem in credit scoring. 2013 , 64, 1060-1070	90
1289	Using the Choquet Integral in the Fuzzy Reasoning Method of Fuzzy Rule-Based Classification Systems. 2013 , 2, 208-223	47
1288	Modified Biogeography-Based Optimization with Local Search Mechanism. 2013 , 2013, 1-24	8
1287	Improved food sources in Artificial Bee Colony. 2013 ,	6
1286	A new unsupervised fuzzy feature ranking measure for feature evaluation. 2013 ,	2
1285	Effective Structure Learning for Estimation of Distribution Algorithms via L1-Regularized Bayesian Networks. 2013 , 10, 17	
1284	A consistency-based feature selection method allied with linear SVMs for HIV-1 protease cleavage site prediction. 2013 , 8, e63145	13
1283	Adaptive Randomness: A New Population Initialization Method. 2014 , 2014, 1-14	3
1282	Heterogeneous differential evolution for numerical optimization. 2014 , 2014, 318063	2
1281	Component Thermodynamical Selection Based Gene Expression Programming for Function Finding. 2014 , 2014, 1-16	4
1280	An effective hybrid model based on PSO-SVM algorithm with a new local search for feature selection. 2014 ,	4
1279	CLASSIFICATION PERFORMANCE OF MULTILAYER PERCEPTRONS WITH DIFFERENT RISK FUNCTIONALS. 2014 , 28, 1450013	
1278	Weighted one-class classification for different types of minority class examples in imbalanced data. 2014 ,	12
1277	Electromagnetic algorithm for tuning the structure and parameters of neural networks. 2014 ,	1
1276	Conflict-based pruning of a solution space within a constructive geometric constraint solver. 2014 , 41, 897-922	0

1275	A spatially informative optic flow model of bee colony with saccadic flight strategy for global optimization. 2014 , 44, 1884-97		27
1274	A Thermodynamical Selection-Based Discrete Differential Evolution for the 0-1 Knapsack Problem. 2014 , 16, 6263-6285		10
1273	A novel hybridization of opposition-based learning and cooperative co-evolutionary for large-scale optimization. 2014 ,		14
1272	Effects of population initialization on differential evolution for large scale optimization. 2014 ,		24
1271	KNN-based weighted rough Ewin support vector machine. 2014 , 71, 303-313		27
1270	Embedding evolutionary multiobjective optimization into fuzzy linguistic combination method for fuzzy rule-based classifier ensembles. 2014 ,		1
1269	New untrained aggregation methods for classifier combination. 2014 ,		
1268	An enhanced swarm intelligence based training algorithm for RBF neural networks in function approximation. 2014 ,		
1267	The assessment of data mining algorithms for modelling Savannah Woody cover using multi-frequency (X-, C- and L-band) synthetic aperture radar (SAR) datasets. 2014 ,		4
1266	Experiments on simultaneous combination rule training and ensemble pruning algorithm. 2014 ,		2
1265	Towards a framework for multiple artificial neural network topologies validation by means of statistics. 2014 , 31, 20-36		6
1264	An adaptive invasion-based model for distributed Differential Evolution. <i>Information Sciences</i> , 2014 , 278, 653-672	7.7	21
1263	Multi-strategy ensemble artificial bee colony algorithm. <i>Information Sciences</i> , 2014 , 279, 587-603	7.7	175
1262	Effective learning hyper-heuristics for the course timetabling problem. 2014 , 238, 77-86		55
1261	Reaching a joint decision with minimal elicitation of voter preferences. <i>Information Sciences</i> , 2014 , 278, 466-487	7.7	17
1260	Bootstrap analysis of multiple repetitions of experiments using an interval-valued multiple comparison procedure. 2014 , 80, 88-100		8
1259	Distributed Estimation of Distribution Algorithms for continuous optimization: How does the exchanged information influence their behavior?. <i>Information Sciences</i> , 2014 , 268, 231-254	7.7	10
1258	A genetic algorithm for job-shop scheduling with operators enhanced by weak Lamarckian evolution and search space narrowing. 2014 , 13, 179-192		8

1257	Intensified iterative deepening A* with application to job shop scheduling. 2014 , 25, 1245-1255		9
1256	Population based Local Search for university course timetabling problems. 2014 , 40, 44-53		17
1255	On the adaptability of G3PARM to the extraction of rare association rules. 2014 , 38, 391-418		26
1254	Enhancing differential evolution with role assignment scheme. 2014 , 18, 2209-2225		20
1253	A chess rating system for evolutionary algorithms: A new method for the comparison and ranking of evolutionary algorithms. <i>Information Sciences</i> , 2014 , 277, 656-679	7.7	76
1252	Fault detection in multi-sensor networks based on multivariate time-series models and orthogonal transformations. 2014 , 20, 272-291		72
1251	Solving the linear interval tolerance problem for weight initialization of neural networks. 2014 , 54, 17-37		22
1250	Two new fast heuristics for mapping parallel applications on cloud computing. 2014 , 37, 1-13		10
1249	Fuzzy partitioning of continuous attributes through discretization methods to construct fuzzy decision tree classifiers. <i>Information Sciences</i> , 2014 , 278, 715-735	7.7	33
1248	Fuzzy nearest neighbor algorithms: Taxonomy, experimental analysis and prospects. <i>Information Sciences</i> , 2014 , 260, 98-119	7.7	72
1247	A multi-population electromagnetic algorithm for dynamic optimisation problems. 2014 , 22, 474-482		18
1246	A multi-population harmony search algorithm with external archive for dynamic optimization problems. <i>Information Sciences</i> , 2014 , 272, 84-95	7.7	80
1245	On the monitoring task of solar thermal fluid transfer systems using NN based models and rule based techniques. 2014 , 27, 129-136		23
1244	An adaptive artificial bee colony and late-acceptance hill-climbing algorithm for examination timetabling. 2014 , 17, 249-262		26
1243	Evolutionary feature selection to estimate forest stand variables using LiDAR. 2014 , 26, 119-131		29
1242	Residual-based fault detection using soft computing techniques for condition monitoring at rolling mills. <i>Information Sciences</i> , 2014 , 259, 304-320	7.7	57
1241	Comparing different versions of differential evolution for training Fuzzy Wavelet Neural Network. 2014 ,		
1240	Dissimilarity criteria and their comparison for quantitative evaluation of image segmentation: application to human retina vessels. 2014 , 25, 1953-1966		8

1239	A new approach for imbalanced data classification based on data gravitation. <i>Information Sciences</i> , 2014 , 288, 347-373	7-7	49
1238	. 2014 , 22, 829-839		31
1237	On the use of genetic programming for mining comprehensible rules in subgroup discovery. 2014 , 44, 2329-41		36
1236	An improved artificial immune recognition system with the opposite sign test for feature selection. 2014 , 71, 126-145		21
1235	Convergence analysis and performance of an improved gravitational search algorithm. 2014 , 24, 363-384		50
1234	Analyzing convergence performance of evolutionary algorithms: A statistical approach. <i>Information Sciences</i> , 2014 , 289, 41-58	7-7	86
1233	Statistical computation of feature weighting schemes through data estimation for nearest neighbor classifiers. 2014 , 47, 3941-3948		22
1232	Reviewing, selecting and evaluating features in distinguishing fine changes of global texture. 2014 , 17, 1-15		8
1231	On the characterization of noise filters for self-training semi-supervised in nearest neighbor classification. 2014 , 132, 30-41		59
1230	CALA: An unsupervised URL-based web page classification system. 2014 , 57, 168-180		20
1229	Data classification using an ensemble of filters. 2014 , 135, 13-20		57
1228	Bare-bones particle swarm optimization with disruption operator. 2014 , 238, 106-122		38
1227	Constraint neighborhood projections for semi-supervised clustering. 2014 , 44, 636-43		22
1226	On the statistical analysis of the parameters trend in a machine learning algorithm. 2014 , 3, 51-53		3
1225	Application of genetic algorithms and constructive neural networks for the analysis of microarray cancer data. 2014 , 11 Suppl 1, S7		18
1224	Robust non-convex least squares loss function for regression with outliers. 2014 , 71, 290-302		41
1223	method: NOV@. 2014 , 41, 6251-6260		5
1222	Modelling contextual constraints in probabilistic relaxation for multi-class semi-supervised learning. 2014 , 66, 82-91		6

1221	Comparing evolutionary algorithms and particle filters for Markerless Human Motion Capture. 2014 , 17, 153-166	16
1220	Cluster-based differential evolution with Crowding Archive for niching in dynamic environments. <i>Information Sciences</i> , 2014 , 267, 58-82	7-7 44
1219	Replication and comparison of computational experiments in applied evolutionary computing: Common pitfalls and guidelines to avoid them. 2014 , 19, 161-170	119
1218	Patch-Levy-based initialization algorithm for Bees Algorithm. 2014 , 23, 104-121	25
1217	A Hybrid Harmony Search Algorithm for Solving Dynamic Optimisation Problems. 2014 , 29, 1926-1936	15
1216	A new fuzzy particle swarm optimization based on population diversity. 2015 , 29, 135-147	4
1215	The variants of harmony search algorithm: Statistical comparison. 2015 ,	0
1214	Multi-view Ensemble Learning Using Optimal Feature Set Partitioning: An Extended Experiments and Analysis in Low Dimensional Scenario. 2015 , 58, 499-506	3
1213	Modelling aboveground forest biomass using airborne laser scanner data in the miombo woodlands of Tanzania. 2015 , 10, 28	20
1212	Solving molecular docking problems with multi-objective metaheuristics. 2015 , 20, 10154-83	20
1211	Detection of subjects and brain regions related to Alzheimer's disease using 3D MRI scans based on eigenbrain and machine learning. 2015 , 9, 66	134
1210	DRSCRO: A Metaheuristic Algorithm for Task Scheduling on Heterogeneous Systems. 2015 , 2015, 1-20	2
1209	A Multi-Learning Immune Algorithm for Numerical Optimization. 2015 , E98.A, 362-377	8
1208	Enhanced differential evolution using random-based sampling and neighborhood mutation. 2015 , 19, 2173-2192	11
1207	Integrating opposition-based learning into the evolution equation of bare-bones particle swarm optimization. 2015 , 19, 2813-2836	7
1206	Spectral co-clustering ensemble. 2015 , 84, 46-55	34
1205	Multi-population differential evolution with balanced ensemble of mutation strategies for large-scale global optimization. 2015 , 33, 304-327	99
1204	Monotonic Random Forest with an Ensemble Pruning Mechanism based on the Degree of Monotonicity. 2015 , 33, 367-388	29

1203	Dissipative differential evolution with self-adaptive control parameters. 2015,	
1202	STAC: A web platform for the comparison of algorithms using statistical tests. 2015,	65
1201	On the impact of Distance-based Relative Competence Weighting approach in One-vs-One classification for Evolutionary Fuzzy Systems: DRCW-FH-GBML algorithm. 2015,	
1200	Surveying and benchmarking techniques to analyse DNA gel fingerprint images. 2016, 17, 912-925	2
1199	Weighted Naïve Bayes Classifier with Forgetting for Drifting Data Streams. 2015,	10
1198	Forming Ensembles of Soft One-Class Classifiers with Weighted Bagging. 2015, 33, 449-466	6
1197	A sensitivity analysis of contribution-based cooperative co-evolutionary algorithms. 2015,	13
1196	Combining random forest and support vector machines for semi-supervised learning. 2015,	2
1195	Influence of T-norm and T-conorm operators in Fuzzy ID3 algorithm. 2015,	1
1194	Computing contrast ratio in images using local content information. 2015,	4
1193	Overview of Friedman's Test and Post-hoc Analysis. 2015, 44, 2636-2653	90
1192	Coverage-based resampling: Building robust consolidated decision trees. 2015, 79, 51-67	27
1191	Revisiting Evolutionary Fuzzy Systems: Taxonomy, applications, new trends and challenges. 2015, 80, 109-121	95
1190	Classifying imbalanced data sets using similarity based hierarchical decomposition. 2015, 48, 1653-1672	89
1189	IFROWANN: Imbalanced Fuzzy-Rough Ordered Weighted Average Nearest Neighbor Classification. 2015, 23, 1622-1637	58
1188	A new perspective of modified partition coefficient. 2015, 56, 1-6	5
1187	Classifier Subset Selection to construct multi-classifiers by means of estimation of distribution algorithms. 2015, 157, 46-60	28
1186	Texture classification using feature selection and kernel-based techniques. 2015, 19, 2469-2480	23

1185	How much past to see the future: a computational study in calibrating urban cellular automata. 2015 , 29, 349-374		21
1184	Effective packet number for early stage internet traffic identification. 2015 , 156, 252-267		30
1183	Multiple strategies based orthogonal design particle swarm optimizer for numerical optimization. 2015 , 60, 91-110		36
1182	Extremal Optimization applied to load balancing in execution of distributed programs. 2015 , 30, 501-513		34
1181	A multi-objective evolutionary algorithm for feature selection based on mutual information with a new redundancy measure. <i>Information Sciences</i> , 2015 , 307, 73-88	7-7	61
1180	NEATER: filtering of over-sampled data using non-cooperative game theory. 2015 , 19, 3301-3322		11
1179	Pattern Matching based Classification using Ant Colony Optimization based Feature Selection. 2015 , 31, 91-102		28
1178	Addressing imbalance in multilabel classification: Measures and random resampling algorithms. 2015 , 163, 3-16		125
1177	FrogCOL and FrogMIS: new decentralized algorithms for finding large independent sets in graphs. 2015 , 9, 205-227		6
1176	A Genetic Algorithm for Scheduling Electric Vehicle Charging. 2015 ,		8
1175	Hybridization of magnetic charge system search and particle swarm optimization for efficient data clustering using neighborhood search strategy. 2015 , 19, 3621-3645		20
1174	Extending multi-objective differential evolution for optimization in presence of noise. <i>Information Sciences</i> , 2015 , 305, 56-76	7-7	24
1173	Dynamic selection of the best base classifier in One versus One. 2015 , 85, 298-306		19
1172	Near-Bayesian Support Vector Machines for imbalanced data classification with equal or unequal misclassification costs. 2015 , 70, 39-52		99
1171	Optimal construction of one-against-one classifier based on meta-learning. 2015 , 167, 459-466		12
1170	On the usefulness of one-class classifier ensembles for decomposition of multi-class problems. 2015 , 48, 3969-3982		52
1169	Dimensionality Reduction Using Graph Weighted Subspace Learning for Bankruptcy Prediction. 2015 , 155-178		
1168	Scalable extensions of the ReliefF algorithm for weighting and selecting features on the multi-label learning context. 2015 , 161, 168-182		104

1167	Differential evolution for noisy multiobjective optimization. 2015 , 227, 165-189		23
1166	Dealing with the evaluation of supervised classification algorithms. 2015 , 44, 467-508		78
1165	Multi-class classification via heterogeneous ensemble of one-class classifiers. 2015 , 43, 35-43		31
1164	An iterated local search with multiple perturbation operators and time varying perturbation strength for the aircraft landing problem. 2015 , 56, 88-98		46
1163	Belief rule-based classification system: Extension of FRBCS in belief functions framework. <i>Information Sciences</i> , 2015 , 309, 26-49	7-7	50
1162	Fuzzy fault isolation using gradient information and quality criteria from system identification models. <i>Information Sciences</i> , 2015 , 316, 18-39	7-7	23
1161	Local k-proximal plane clustering. 2015 , 26, 199-211		17
1160	Combined outputs framework for twin support vector machines. 2015 , 43, 424-438		2
1159	A hybridization of clonal selection algorithm with iterated local search and variable neighborhood search for the feature selection problem. 2015 , 7, 181-201		13
1158	Biomimicry of parasitic behavior in a coevolutionary particle swarm optimization algorithm for global optimization. 2015 , 32, 224-240		23
1157	Memetic algorithms for the job shop scheduling problem with operators. 2015 , 34, 94-105		37
1156	CMStalker: A Combinatorial Tool for Composite Motif Discovery. 2015 , 12, 1123-36		1
1155	Benchmarking state-of-the-art classification algorithms for credit scoring: An update of research. 2015 , 247, 124-136		447
1154	Categorical fuzzy k-modes clustering with automated feature weight learning. 2015 , 166, 422-435		19
1153	A novel Chemical Reaction Optimization based Higher order Neural Network (CRO-HONN) for nonlinear classification. 2015 , 6, 1069-1091		30
1152	The use of vicinal-risk minimization for training decision trees. 2015 , 31, 185-195		8
1151	Diagnosing a solar volumetric receiver combining NN-based modelling with online parameter identification and rule-based techniques. 2015 , 23, 379-399		
1150	A Fuzzy Algorithm to Study the Inverse Kinematics Problem of a Serial Manipulator. 2015 , 783, 77-82		1

1149	Classification of signaling proteins based on molecular star graph descriptors using Machine Learning models. 2015 , 384, 50-8		19
1148	SEG-SSC: a framework based on synthetic examples generation for self-labeled semi-supervised classification. 2015 , 45, 622-34		41
1147	A dynamic multiarmed bandit-gene expression programming hyper-heuristic for combinatorial optimization problems. 2015 , 45, 217-28		86
1146	. 2015 , 23, 973-990		101
1145	Mapping microarray gene expression data into dissimilarity spaces for tumor classification. <i>Information Sciences</i> , 2015 , 294, 362-375	7-7	28
1144	Predicting Student Performance in Distance Higher Education Using Semi-supervised Techniques. 2015 , 259-270		15
1143	Using the One-vs-One decomposition to improve the performance of class noise filters via an aggregation strategy in multi-class classification problems. 2015 , 90, 153-164		21
1142	Estimating student dropout in distance higher education using semi-supervised techniques. 2015 ,		13
1141	Multi-view Ensemble Learning. 2015 ,		9
1140	Multidimensional data classification with chordal distance based kernel and Support Vector Machines. 2015 , 46, 10-22		22
1139	K-nearest neighbor based structural twin support vector machine. 2015 , 88, 34-44		43
1138	A multi-scale smoothing kernel for measuring time-series similarity. 2015 , 167, 8-17		7
1137	. 2015 , 23, 1638-1654		192
1136	A new multiple classifier system for the prediction of protein's contacts map. 2015 , 115, 983-990		1
1135	A data clustering approach based on universal gravity rule. 2015 , 45, 415-428		18
1134	Robustness of genetic algorithm solutions in resource leveling. 2015 ,		2
1133	A Statistical Framework for Hypothesis Testing in Real Data Comparison Studies. 2015 , 69, 201-212		25
1132	Support vector machine-based optimized decision threshold adjustment strategy for classifying imbalanced data. 2015 , 76, 67-78		60

1131	Improvement of protein binding sites prediction by selecting amino acid residues' features. 2015 , 189, 9-19		1
1130	Inducing Niching Behavior in Differential Evolution Through Local Information Sharing. 2015 , 19, 246-263		123
1129	Regarding the rankings of optimization heuristics based on artificially-constructed benchmark functions. <i>Information Sciences</i> , 2015 , 297, 191-201	7.7	30
1128	Hybrid adaptive classifier ensemble. 2015 , 45, 177-90		70
1127	Enhancement of multi-class support vector machine construction from binary learners using generalization performance. 2015 , 151, 434-448		9
1126	A cascaded pairwise biomolecular sequence alignment technique using evolutionary algorithm. <i>Information Sciences</i> , 2015 , 297, 118-139	7.7	4
1125	A proposal for evolutionary fuzzy systems using feature weighting: Dealing with overlapping in imbalanced datasets. 2015 , 73, 1-17		37
1124	Confidence ratio affinity propagation in ensemble selection of neural network classifiers for distributed privacy-preserving data mining. 2015 , 150, 513-528		15
1123	New schedule generation schemes for the job-shop problem with operators. 2015 , 26, 511-525		8
1122	Stacking for multivariate time series classification. 2015 , 18, 297-312		20
1121	Self-labeled techniques for semi-supervised learning: taxonomy, software and empirical study. 2015 , 42, 245-284		236
1120	Diversity enhanced and local search accelerated gravitational search algorithm for data fitting with B-splines. 2015 , 31, 215-236		5
1119	An insight into the experimental design for credit risk and corporate bankruptcy prediction systems. 2015 , 44, 159-189		45
1118	A hybrid particle swarm optimization based memetic algorithm for DNA sequence compression. 2015 , 19, 1255-1268		5
1117	Enhancing Multiclass Classification in FARC-HD Fuzzy Classifier: On the Synergy Between n -Dimensional Overlap Functions and Decomposition Strategies. 2015 , 23, 1562-1580		92
1116	Constructing a multi-class classifier using one-against-one approach with different binary classifiers. 2015 , 149, 677-682		46
1115	Structural least square twin support vector machine for classification. 2015 , 42, 527-536		18
1114	Genetic tabu search for the fuzzy flexible job shop problem. 2015 , 54, 74-89		51

1113	SMOTE _{IPF} : Addressing the noisy and borderline examples problem in imbalanced classification by a re-sampling method with filtering. <i>Information Sciences</i> , 2015 , 291, 184-203	7.7	259
1112	Hybrid bee colony optimization for examination timetabling problems. 2015 , 54, 142-154		33
1111	Global minimum routing in evolutionary programming using fuzzy logic. <i>Information Sciences</i> , 2015 , 292, 162-174	7.7	2
1110	One-class classifier ensemble pruning and weighting with firefly algorithm. 2015 , 150, 490-500		51
1109	Active components of metaheuristics in cellular genetic algorithms. 2015 , 19, 1295-1309		2
1108	Large symmetric margin instance selection algorithm. 2016 , 7, 25-45		13
1107	Self-Trained LMT for Semisupervised Learning. 2016 , 2016, 3057481		15
1106	Design of Large Thinned Arrays Using Different Biogeography-Based Optimization Migration Models. 2016 , 2016, 1-11		8
1105	A Semisupervised Cascade Classification Algorithm. 2016 , 2016, 1-14		4
1104	A Methodology for the Hybridization Based in Active Components: The Case of cGA and Scatter Search. 2016 , 2016, 8289237		1
1103	Imbalanced Learning Based on Logistic Discrimination. 2016 , 2016, 5423204		4
1102	A Hybrid Short-Term Traffic Flow Prediction Model Based on Singular Spectrum Analysis and Kernel Extreme Learning Machine. 2016 , 11, e0161259		26
1101	Method for Improving EEG Based Emotion Recognition by Combining It with Synchronized Biometric and Eye Tracking Technologies in a Non-invasive and Low Cost Way. 2016 , 10, 85		18
1100	Classifier Subset Selection for the Stacked Generalization Method Applied to Emotion Recognition in Speech. 2015 , 16,		11
1099	Intravital Fluorescence Excitation in Whole-Animal Optical Imaging. 2016 , 11, e0149932		14
1098	A methodology for the design of experiments in computational intelligence with multiple regression models. 2016 , 4, e2721		20
1097	BFPART: Best-First PART. <i>Information Sciences</i> , 2016 , 367-368, 927-952	7.7	7
1096	Evaluating color difference measures in images. 2016 ,		8

1095	Immune algorithm combined with estimation of distribution for traveling salesman problem. 2016 , 11, S142	21
1094	WENN for individualized cleaning in imbalanced data. 2016 ,	1
1093	A methodological framework using statistical tests for comparing machine learning based models applied to fault diagnosis in rotating machinery. 2016 ,	0
1092	Ensemble Learning with Uncertainty. 2016 , 149-219	
1091	Semi-supervised forecasting of fraudulent financial statements. 2016 ,	3
1090	Comparison of Multi-objective Evolutionary Algorithms for prototype selection in nearest neighbor classification. 2016 ,	
1089	Texture analysis in gel electrophoresis images using an integrative kernel-based approach. 2016 , 6, 19256	15
1088	Self-labeled Hidden Naive Bayes algorithm for semi-supervised classification. 2016 ,	0
1087	A search group algorithm for optimal voltage regulation in power systems. 2016 ,	5
1086	Parallel Late Acceptance Hill-Climbing Algorithm for the Google Machine Reassignment Problem. 2016 , 163-174	11
1085	Heuristic based genetic algorithms for the re-entrant total completion time flowshop scheduling with learning consideration. 2016 , 9, 1082-1100	8
1084	Improving Artificial Bee Colony Algorithm with Historical Archive. 2016 , 185-190	2
1083	A meta-analysis of research in random forests for classification. 2016 ,	9
1082	Applying ant colony hybrid metaheuristics to wrapper verification. 2016 , 57, 62-75	1
1081	A clustering-based differential evolution with random-based sampling and Gaussian sampling. 2016 , 205, 229-246	16
1080	An adaptive multi-population artificial bee colony algorithm for dynamic optimisation problems. 2016 , 104, 14-23	77
1079	A robust memory based hybrid differential evolution for continuous optimization problem. 2016 , 103, 118-131	19
1078	High-dimensional and large-scale anomaly detection using a linear one-class SVM with deep learning. 2016 , 58, 121-134	491

1077	K-nearest neighbor-based weighted multi-class twin support vector machine. 2016 , 205, 430-438		30
1076	Designing bag-level multiple-instance feature-weighting algorithms based on the large margin principle. <i>Information Sciences</i> , 2016 , 367-368, 783-808	7.7	4
1075	Parameter tuning with Chess Rating System (CRS-Tuning) for meta-heuristic algorithms. <i>Information Sciences</i> , 2016 , 372, 446-469	7.7	56
1074	A priori synthetic over-sampling methods for increasing classification sensitivity in imbalanced data sets. 2016 , 66, 124-135		39
1073	A New Scale-Invariant Nonparametric Test for Two-Sample Bivariate Location Problem with Application. 2016 , 175-187		
1072	Consensus and complementarity based maximum entropy discrimination for multi-view classification. <i>Information Sciences</i> , 2016 , 367-368, 296-310	7.7	60
1071	Global feature selection from microarray data using Lagrange multipliers. 2016 , 110, 267-274		16
1070	Extended nearest neighbor chain induced instance-weights for SVMs. 2016 , 60, 863-874		23
1069	A Comparison of Machine Learning Techniques Applied to Landsat-5 TM Spectral Data for Biomass Estimation. 2016 , 42, 690-705		42
1068	A decremental stochastic fractal differential evolution for global numerical optimization. <i>Information Sciences</i> , 2016 , 372, 470-491	7.7	19
1067	EPRENNID: An evolutionary prototype reduction based ensemble for nearest neighbor classification of imbalanced data. 2016 , 216, 596-610		14
1066	Binary coordinate ascent: An efficient optimization technique for feature subset selection for machine learning. 2016 , 110, 191-201		26
1065	Towards automated neuron tracing via global and local 3D image analysis. 2016 ,		1
1064	NSABC: Non-dominated sorting based multi-objective artificial bee colony algorithm and its application in data clustering. 2016 , 216, 514-533		46
1063	On the convergence of multivariate optimization algorithm. 2016 , 48, 230-239		4
1062	On the Influence of Class Noise in Medical Data Classification: Treatment Using Noise Filtering Methods. 2016 , 30, 590-609		24
1061	Nonparallel least square support vector machine for classification. 2016 , 45, 1119-1128		8
1060	Utilization of the SAVANNA model to analyze future patterns of vegetation cover in Kruger National Park under changing climate. 2016 , 342, 147-160		15

1059	A novel differential evolution algorithm using local abstract convex underestimate strategy for global optimization. 2016 , 75, 132-149		23
1058	Reducing preference elicitation in group decision making. 2016 , 61, 246-261		11
1057	Instance selection for regression by discretization. 2016 , 54, 340-350		19
1056	Empowering one-vs-one decomposition with ensemble learning for multi-class imbalanced data. 2016 , 106, 251-263		66
1055	Dynamic classifier selection for one-class classification. 2016 , 107, 43-53		28
1054	Exploring High Dimension Large Data Correlation Analysis with Mutual Information and Application. 2016 , 361-371		
1053	ur-CAIM: improved CAIM discretization for unbalanced and balanced data. 2016 , 20, 173-188		34
1052	Gaussian bare-bones artificial bee colony algorithm. 2016 , 20, 907-924		47
1051	Multi-agent Architecture for Corporate Operating Performance Assessment. 2016 , 43, 115-132		4
1050	Soft-constrained Laplacian score for semi-supervised multi-label feature selection. 2016 , 47, 75-98		24
1049	INFFC: An iterative class noise filter based on the fusion of classifiers with noise sensitivity control. 2016 , 27, 19-32		55
1048	LAIM discretization for multi-label data. <i>Information Sciences</i> , 2016 , 330, 370-384	7.7	28
1047	Effective lazy learning algorithm based on a data gravitation model for multi-label learning. <i>Information Sciences</i> , 2016 , 340-341, 159-174	7.7	17
1046	Fuzzy Multi-Instance Classifiers. 2016 , 24, 1395-1409		11
1045	Speeding-Up Association Rule Mining With Inverted Index Compression. 2016 , 46, 3059-3072		26
1044	Optimization and label propagation in bipartite heterogeneous networks to improve transductive classification of texts. 2016 , 52, 217-257		29
1043	Hierarchical cluster ensemble model based on knowledge granulation. 2016 , 91, 179-188		54
1042	A self adaptive harmony search based functional link higher order ANN for non-linear data classification. 2016 , 179, 69-87		28

1041	ODOC-ELM: Optimal decision outputs compensation-based extreme learning machine for classifying imbalanced data. 2016 , 92, 55-70		53
1040	An interval type-2 fuzzy logic based framework for reputation management in Peer-to-Peer e-commerce. <i>Information Sciences</i> , 2016 , 333, 88-107	7-7	21
1039	Study of the impact of resampling methods for contrast pattern based classifiers in imbalanced databases. 2016 , 175, 935-947		94
1038	Enhancing evolutionary fuzzy systems for multi-class problems: Distance-based relative competence weighting with truncated confidences (DRCW-TC). 2016 , 73, 108-122		4
1037	A maximum margin and minimum volume hyper-spheres machine with pinball loss for imbalanced data classification. 2016 , 95, 75-85		46
1036	Ordering-based pruning for improving the performance of ensembles of classifiers in the framework of imbalanced datasets. <i>Information Sciences</i> , 2016 , 354, 178-196	7-7	55
1035	Network-Based Semi-Supervised Learning. 2016 , 181-205		
1034	Weighted Lagrange β twin support vector regression. 2016 , 197, 53-68		33
1033	Linkage based deferred acceptance optimization. <i>Information Sciences</i> , 2016 , 349-350, 65-76	7-7	
1032	CoABCMiner: An Algorithm for Cooperative Rule Classification System Based on Artificial Bee Colony. 2016 , 25, 1550028		17
1031	Fuzzy Rule-Based Classification Systems for multi-class problems using binary decomposition strategies: On the influence of n-dimensional overlap functions in the Fuzzy Reasoning Method. <i>Information Sciences</i> , 2016 , 332, 94-114	7-7	67
1030	Hyperrectangles Selection for Monotonic Classification by Using Evolutionary Algorithms. 2016 , 9, 184		11
1029	Bagging exponential smoothing methods using STL decomposition and Box-Cox transformation. 2016 , 32, 303-312		106
1028	Fuzzy rough classifiers for class imbalanced multi-instance data. 2016 , 53, 36-45		43
1027	A weighted one-class support vector machine. 2016 , 189, 1-10		45
1026	A statistical comparison of neuroclassifiers and feature selection methods for gearbox fault diagnosis under realistic conditions. 2016 , 194, 192-206		39
1025	Managing multi-line power congestion by using Hybrid Nelder-Mead Fuzzy Adaptive Particle Swarm Optimization (HNM-FAPSO). 2016 , 43, 222-234		26
1024	Modified Differential Evolution with Locality induced Genetic Operators for dynamic optimization. 2016 , 253, 337-355		29

1023	Untrained weighted classifier combination with embedded ensemble pruning. 2016 , 196, 14-22		17
1022	Genetic generation of fuzzy systems with rule extraction using formal concept analysis. <i>Information Sciences</i> , 2016 , 349-350, 199-215	7-7	23
1021	Robust one-class SVM for fault detection. 2016 , 151, 15-25		39
1020	Fusion of instance selection methods in regression tasks. 2016 , 30, 69-79		25
1019	Iterated local search using an add and delete hyper-heuristic for university course timetabling. 2016 , 40, 581-593		33
1018	Capacities and overlap indexes with an application in fuzzy rule-based classification systems. 2016 , 305, 70-94		33
1017	Relative density degree induced boundary detection for one-class SVM. 2016 , 20, 4473-4485		9
1016	Constraint Co-Projections for Semi-Supervised Co-Clustering. 2016 , 46, 3047-3058		14
1015	A Global-best Harmony Search based Gradient Descent Learning FLANN (GbHS-GDL-FLANN) for data classification. 2016 , 17, 57-87		8
1014	Weighted fuzzy interpolative reasoning for sparse fuzzy rule-based systems based on piecewise fuzzy entropies of fuzzy sets. <i>Information Sciences</i> , 2016 , 329, 503-523	7-7	22
1013	Undirected cyclic graph based multiclass pair-wise classifier: Classifier number reduction maintaining accuracy. 2016 , 171, 1576-1590		4
1012	Classifying component failures of a hybrid electric vehicle fleet based on load spectrum data. 2016 , 27, 2289-2304		4
1011	Financial credit risk assessment: a recent review. 2016 , 45, 1-23		73
1010	Multi-view ensemble learning: an optimal feature set partitioning for high-dimensional data classification. 2016 , 49, 1-59		42
1009	Good Laboratory Practice for optimization research. 2016 , 67, 676-689		54
1008	A novel nature inspired firefly algorithm with higher order neural network: Performance analysis. 2016 , 19, 197-211		37
1007	Hybrid k -Nearest Neighbor Classifier. 2016 , 46, 1263-75		74
1006	Evolutionary wrapper approaches for training set selection as preprocessing mechanism for support vector machines: Experimental evaluation and support vector analysis. 2016 , 38, 10-22		27

1005	A Hybrid Approach to Clustering in Big Data. 2016 , 46, 2372-2385		62
1004	A simple and efficient real-coded genetic algorithm for constrained optimization. 2016 , 38, 87-105		48
1003	Evolutionary fuzzy k-nearest neighbors algorithm using interval-valued fuzzy sets. <i>Information Sciences</i> , 2016 , 329, 144-163	7.7	53
1002	On the stopping criteria for k-Nearest Neighbor in positive unlabeled time series classification problems. <i>Information Sciences</i> , 2016 , 328, 42-59	7.7	21
1001	. 2016 , 20, 218-231		21
1000	A novel parametric-insensitive nonparallel support vector machine for regression. 2016 , 171, 649-663		13
999	Taking advantage of solving the resource constrained multi-project scheduling problems using multi-modal genetic algorithms. 2016 , 20, 1879-1896		21
998	Multivariate Discretization Based on Evolutionary Cut Points Selection for Classification. 2016 , 46, 595-608		28
997	A case study on FMEA-based quality improvement of packaging designs in the TFT-LCD industry. 2016 , 27, 413-431		8
996	Multi-objective genetic programming for feature extraction and data visualization. 2017 , 21, 2069-2089		27
995	Firefly algorithm with adaptive control parameters. 2017 , 21, 5091-5102		78
994	A new cuckoo search algorithm with hybrid strategies for flow shop scheduling problems. 2017 , 21, 4297-4307		45
993	A two-step artificial bee colony algorithm for clustering. 2017 , 28, 537-551		43
992	Selecting locally specialised classifiers for one-class classification ensembles. 2017 , 20, 427-439		13
991	Enhancing Protein Conformational Space Sampling Using Distance Profile-Guided Differential Evolution. 2017 , 14, 1288-1301		24
990	Nonsmooth Penalized Clustering via $\ell_{1/p}$ Regularized Sparse Regression. 2017 , 47, 1423-1433		15
989	Review of Differential Evolution population size. 2017 , 32, 1-24		122
988	MoNGEL: monotonic nested generalized exemplar learning. 2017 , 20, 441-452		8

987	Optimizing the class information divergence for transductive classification of texts using propagation in bipartite graphs. 2017 , 87, 127-138	5
986	Maximum Margin of Twin Spheres Support Vector Machine for Imbalanced Data Classification. 2017 , 47, 1540-1550	44
985	Randomly attracted firefly algorithm with neighborhood search and dynamic parameter adjustment mechanism. 2017 , 21, 5325-5339	69
984	Imbalanced traffic identification using an imbalanced data gravitation-based classification model. 2017 , 102, 177-189	27
983	Locally application of naive Bayes for self-training. 2017 , 8, 3-18	5
982	Efficient quantum inspired meta-heuristics for multi-level true colour image thresholding. 2017 , 56, 472-513	28
981	A multi-tier adaptive grid algorithm for the evolutionary multi-objective optimisation of complex problems. 2017 , 21, 4963-4979	4
980	An adaptive guided variable neighborhood search based on honey-bee mating optimization algorithm for the course timetabling problem. 2017 , 21, 6755-6765	10
979	Intuitionistic neuro-fuzzy network with evolutionary adaptation. 2017 , 8, 35-47	9
978	Analyzing the performance of two COSMIC approximation sizing techniques at the functional process level. 2017 , 135, 105-121	2
977	On the influence of the number of algorithms, problems, and independent runs in the comparison of evolutionary algorithms. 2017 , 54, 23-45	29
976	Comparative analysis of data mining and response surface methodology predictive models for enzymatic hydrolysis of pretreated olive tree biomass. 2017 , 101, 23-30	12
975	Predicting shifts in large herbivore distributions under climate change and management using a spatially-explicit ecosystem model. 2017 , 352, 1-18	14
974	Prototype selection to improve monotonic nearest neighbor. 2017 , 60, 128-135	16
973	Ensemble learning for data stream analysis: A survey. 2017 , 37, 132-156	473
972	Self-Trained Stacking Model for Semi-Supervised Learning. 2017 , 26, 1750001	5
971	iFAS: Image Fidelity Assessment. 2017 , 83-94	2
970	Dynamic Texture Comparison Using Derivative Sparse Representation: Application to Video-Based Face Recognition. 2017 , 47, 970-982	16

969	Exploring the effectiveness of dynamic ensemble selection in the one-versus-one scheme. 2017 , 125, 53-63		19
968	Multi-objective genetic algorithm with variable neighbourhood search for the electoral redistricting problem. 2017 , 36, 37-51		20
967	Noise Reduction A Priori Synthetic Over-Sampling for class imbalanced data sets. <i>Information Sciences</i> , 2017 , 408, 146-161	7.7	39
966	Cooperative co-evolution with sensitivity analysis-based budget assignment strategy for large-scale global optimization. 2017 , 47, 888-913		11
965	Occam's razor in dimension reduction: Using reduced row Echelon form for finding linear independent features in high dimensional microarray datasets. 2017 , 62, 214-221		10
964	Using classification models for the generation of disease-specific medications from biomedical literature and clinical data repository. 2017 , 69, 259-266		4
963	Class Switching according to Nearest Enemy Distance for learning from highly imbalanced data-sets. 2017 , 70, 12-24		27
962	Incremental fuzzy cluster ensemble learning based on rough set theory. 2017 , 132, 144-155		30
961	Using bipartite heterogeneous networks to speed up inductive semi-supervised learning and improve automatic text categorization. 2017 , 132, 94-118		4
960	A Pareto-based Ensemble with Feature and Instance Selection for Learning from Multi-Class Imbalanced Datasets. 2017 , 27, 1750028		31
959	An improved rough margin-based \mathbb{B} twain bounded support vector machine. 2017 , 128, 125-138		10
958	A multi-kernel framework with nonparallel support vector machine. 2017 , 266, 226-238		21
957	Classification of Fiducial Markers in Challenging Conditions with SVM. 2017 , 344-352		1
956	A new meta-heuristic butterfly-inspired algorithm. 2017 , 23, 226-239		44
955	Abstract Convex Underestimation Assisted Multistage Differential Evolution. 2017 , 47, 2730-2741		31
954	A niche GSA method with nearest neighbor scheme for multimodal optimization. 2017 , 35, 78-92		23
953	What are the most important variables for Poaceae airborne pollen forecasting?. 2017 , 579, 1161-1169		9
952	Statistical comparison of image fusion algorithms: Recommendations. 2017 , 36, 251-260		53

951	Improved Functional Link Neural Network Learning Using Modified Bee-Firefly Algorithm for Classification Task. 2017 , 71-80		
950	Parametric methods for comparing the performance of two classification algorithms evaluated by k-fold cross validation on multiple data sets. 2017 , 65, 97-107		33
949	A general feature-weighting function for classification problems. 2017 , 72, 177-188		10
948	Firefly algorithm with neighborhood attraction. <i>Information Sciences</i> , 2017 , 382-383, 374-387	7.7	198
947	Active and adaptive ensemble learning for online activity recognition from data streams. 2017 , 138, 69-78		39
946	An ensemble approach to multi-view multi-instance learning. 2017 , 136, 46-57		22
945	Hesitant fuzzy decision tree approach for highly imbalanced data classification. 2017 , 61, 727-741		23
944	A Novel Approach to statistical comparison of meta-heuristic stochastic optimization algorithms using deep statistics. <i>Information Sciences</i> , 2017 , 417, 186-215	7.7	45
943	CT : Extending the application of the consolidation methodology even further. 2017 , 34, e12212		1
942	Landscape-based adaptive operator selection mechanism for differential evolution. <i>Information Sciences</i> , 2017 , 418-419, 383-404	7.7	39
941	Ensemble network traffic classification: Algorithm comparison and novel ensemble scheme proposal. 2017 , 127, 68-80		28
940	Information sciences 1968-2016: A retrospective analysis with text mining and bibliometric. <i>Information Sciences</i> , 2017 , 418-419, 619-634	7.7	103
939	A Combined Approach Based on K-Means and Modified Electromagnetism-Like Mechanism for Data Clustering. 2017 , 16, 1279-1307		5
938	Evolutionary Learning Based Iterated Local Search for Google Machine Reassignment Problems. 2017 , 409-421		2
937	Multi-target support vector regression via correlation regressor chains. <i>Information Sciences</i> , 2017 , 415-416, 53-69	7.7	72
936	Evolutionary multilabel hyper-heuristic design. 2017 ,		2
935	The Consolidated Tree Construction algorithm in imbalanced defect prediction datasets. 2017 ,		0
934	Learning rule sets from survival data. 2017 , 18, 285		8

933	Ensemble correlation-based low-rank matrix completion with applications to traffic data imputation. 2017 , 132, 249-262	36
932	An Evolutionary Simulating Annealing Algorithm for Google Machine Reassignment Problem. 2017 , 431-442	8
931	A genetic algorithm with multi-parent crossover using quaternion representation for numerical function optimization. 2017 , 46, 810-826	7
930	PBC4cip: A new contrast pattern-based classifier for class imbalance problems. 2017 , 115, 100-109	49
929	New directional bat algorithm for continuous optimization problems. 2017 , 69, 159-175	166
928	An Adaptive Multipopulation Differential Evolution With Dynamic Population Reduction. 2017 , 47, 2768-2779	71
927	Group Decision Support for Leisure Activities Using Voting and Social Networks. 2017 , 26, 473-494	12
926	Modified swarm intelligence based techniques for the knapsack problem. 2017 , 46, 158-179	13
925	Incorporating neighbors' distribution knowledge into support vector machines. 2017 , 21, 6407-6420	5
924	Screening dense and noisy DOX-datasets with NN-blending and Fuzzy Swarm intelligence: Profiling a water quality process. 2017 , 32, 219-233	
923	A fast feature weighting algorithm of data gravitation classification. <i>Information Sciences</i> , 2017 , 375, 54-78	7-7 15
922	Local learning regularization networks for localized regression. 2017 , 28, 1309-1328	2
921	A New Kind of Nonparametric Test for Statistical Comparison of Multiple Classifiers Over Multiple Datasets. 2017 , 47, 4418-4431	31
920	Ensemble of feature selection methods: A hesitant fuzzy sets approach. 2017 , 50, 300-312	63
919	Fuzzy-Based Information Decomposition for Incomplete and Imbalanced Data Learning. 2017 , 25, 1476-1490	45
918	A first approach towards a fuzzy decision tree for multilabel classification. 2017 ,	6
917	Opposition-Based Sine Cosine Algorithm (OSCA) for Training Feed-Forward Neural Networks. 2017 ,	10
916	Effective Packet Number for 5G IM WeChat Application at Early Stage Traffic Classification. 2017 , 2017, 1-22	6

915	HFSTE: Hybrid Feature Selections and Tree-Based Classifiers Ensemble for Intrusion Detection System. 2017 , E100.D, 1729-1737	13
914	Improving Classification Performance through an Advanced Ensemble Based Heterogeneous Extreme Learning Machines. 2017 , 2017, 3405463	17
913	Effective Feature Selection for 5G IM Applications Traffic Classification. 2017 , 2017, 1-12	4
912	A Hybrid Semi-Supervised Anomaly Detection Model for High-Dimensional Data. 2017 , 2017, 8501683	59
911	Graph clustering-based discretization of splitting and merging methods (GraphS and GraphM). 2017 , 7,	11
910	Brain storm optimization with adaptive search radius for optimization. 2017 ,	4
909	Multiple Chaos Embedded Gravitational Search Algorithm. 2017 , E100.D, 888-900	27
908	Parallelization strategies for markerless human motion capture. 2018 , 14, 453-467	4
907	Emphasizing personal information for Author Profiling: New approaches for term selection and weighting. 2018 , 145, 169-181	9
906	DRCW-ASEG: One-versus-One distance-based relative competence weighting with adaptive synthetic example generation for multi-class imbalanced datasets. 2018 , 285, 176-187	20
905	Optimal Hyper-Parameter Tuning of SVM Classifiers With Application to Medical Diagnosis. 2018 , 6, 7164-7176	39
904	Mining Context-Aware Association Rules Using Grammar-Based Genetic Programming. 2018 , 48, 3030-3044	18
903	Spam filtering using integrated distribution-based balancing approach and regularized deep neural networks. 2018 , 48, 3538-3556	44
902	Feature selection for the classification of traced neurons. 2018 , 303, 41-54	7
901	Multi-label classification of member participation in online innovation communities. 2018 , 270, 761-774	11
900	A regression model based on the nearest centroid neighborhood. 2018 , 21, 941-951	4
899	HTSS: a hyper-heuristic training set selection method for imbalanced data sets. 2018 , 1, 109-128	6
898	CCFS: A cooperating coevolution technique for large scale feature selection on microarray datasets. 2018 , 73, 171-178	17

897	Distributed feature selection: A hesitant fuzzy correlation concept for microarray high-dimensional datasets. 2018 , 173, 51-64	12
896	A study on combining dynamic selection and data preprocessing for imbalance learning. 2018 , 286, 179-192	61
895	A new hybrid classification algorithm for customer churn prediction based on logistic regression and decision trees. 2018 , 269, 760-772	155
894	Statistical comparisons of active learning strategies over multiple datasets. 2018 , 145, 274-288	24
893	A multi-objective evolutionary approach to training set selection for support vector machine. 2018 , 147, 94-108	21
892	Tips, guidelines and tools for managing multi-label datasets: The mldr.datasets R package and the Cometa data repository. 2018 , 289, 68-85	16
891	MIRSVM: Multi-instance support vector machine with bag representatives. 2018 , 79, 228-241	19
890	A dual-population multi operators harmony search algorithm for dynamic optimization problems. 2018 , 117, 19-28	12
889	A fuzzy ID3 induction for linguistic data sets. 2018 , 33, 858-878	4
888	Improvements on twin-hypersphere support vector machine using local density information. 2018 , 7, 167-175	4
887	A Unified Collaborative Multikernel Fuzzy Clustering for Multiview Data. 2018 , 26, 1671-1687	38
886	Identifying key classes in object-oriented software using generalizedk-core decomposition. 2018 , 81, 188-202	32
885	Graph cuts and neural networks for segmentation and porosity quantification in Synchrotron Radiation X-ray CT of an igneous rock sample. 2018 , 133, 121-132	1
884	Multilabel feature selection: A comprehensive review and guiding experiments. 2018 , 8, e1240	31
883	Online ensemble learning with abstaining classifiers for drifting and noisy data streams. 2018 , 68, 677-692	50
882	A biogeographic and ecological perspective to the evolution of reproductive behaviour in the family Salamandridae. 2018 , 121, 98-109	14
881	An effective gbest-guided gravitational search algorithm for real-parameter optimization and its application in training of feedforward neural networks. 2018 , 143, 192-207	27
880	On using supervised clustering analysis to improve classification performance. <i>Information Sciences</i> , 2018 , 454-455, 216-228	7-7 7

879	DecoFungi: a web application for automatic characterisation of dye decolorisation in fungal strains. 2018 , 19, 66		2
878	Safety-aware Graph-based Semi-Supervised Learning. 2018 , 107, 243-254		25
877	Structure-aware Mashup service Clustering for cloud-based Internet of Things using genetic algorithm based clustering algorithm. 2018 , 87, 267-277		33
876	Performance prediction and adaptation for database management system workload using Case-Based Reasoning approach. 2018 , 76, 46-58		12
875	Multi-Manifold based Rotation Forest for classification. 2018 , 68, 626-635		4
874	MC2ESVM: Multiclass Classification Based on Cooperative Evolution of Support Vector Machines. 2018 , 13, 18-29		13
873	Data-independent Random Projections from the feature-map of the homogeneous polynomial kernel of degree two. <i>Information Sciences</i> , 2018 , 436-437, 214-226	7-7	4
872	Online entropy-based discretization for data streaming classification. 2018 , 86, 59-70		12
871	. 2018 , 6, 17284-17291		4
870	Large multiple neighborhood search for the clustered vehicle-routing problem. 2018 , 270, 118-131		28
869	MOEA-EFEP: Multi-Objective Evolutionary Algorithm for Extracting Fuzzy Emerging Patterns. 2018 , 26, 2861-2872		12
868	Application of metaheuristic algorithms to the identification of nonlinear magneto-viscoelastic constitutive parameters. 2018 , 464, 116-131		11
867	A hybrid elicit teaching learning based optimization with fuzzy c-means (ETLBO-FCM) algorithm for data clustering. 2018 , 9, 379-393		11
866	A TLBO based gradient descent learning-functional link higher order ANN: An efficient model for learning from non-linear data. 2018 , 30, 120-139		4
865	Elitist teaching learning-based optimization (ETLBO) with higher-order Jordan Pi-sigma neural network: a comparative performance analysis. 2018 , 30, 1445-1468		8
864	A comprehensive comparison of metaheuristics for the repetition-free longest common subsequence problem. 2018 , 24, 551-579		9
863	A fuzzy K-nearest neighbor classifier to deal with imperfect data. 2018 , 22, 3313-3330		15
862	Human Development Index (HDI) Rank-Order Variability. 2018 , 137, 481-504		9

861	EDDEINS: a new hybrid ensemblist approach for feature selection. 2018 , 10, 63-79	3
860	Recognizing building groups for generalization: a comparative study. 2018 , 45, 187-204	17
859	Adaptive multi-objective swarm fusion for imbalanced data classification. 2018 , 39, 1-24	50
858	Cooperative evolutionary heterogeneous simulated annealing algorithm for google machine reassignment problem. 2018 , 19, 183-210	4
857	DABE: Differential evolution in analogy-based software development effort estimation. 2018 , 38, 158-172	34
856	Simulating parallel scalable probabilistic neural networks via exemplar selection and EM in a ring pipeline. 2018 , 25, 260-279	4
855	Analyzing the structure of Java software systems by weightedK-core decomposition. 2018 , 83, 431-444	29
854	Multiclass support matrix machine for single trial EEG classification. 2018 , 275, 869-880	28
853	A comprehensive experimental evaluation of orthogonal polynomial expanded random vector functional link neural networks for regression. 2018 , 70, 1083-1096	39
852	An improved ϵ -win bounded support vector machine. 2018 , 48, 1041-1053	20
851	Robust identification of fiducial markers in challenging conditions. 2018 , 93, 336-345	25
850	Stability of topic modeling via matrix factorization. 2018 , 91, 159-169	34
849	Improving Supervised Classification Algorithms by a Bipolar Knowledge Representation. 2018 , 518-529	
848	Density-based particle swarm optimization algorithm for data clustering. 2018 , 91, 170-186	68
847	An efficient evolutionary algorithm for the orienteering problem. 2018 , 90, 42-59	24
846	MOGOA algorithm for constrained and unconstrained multi-objective optimization problems. 2018 , 48, 2268-2283	47
845	Predicting corporate investment/non-investment grade by using interval-valued fuzzy rule-based systemsA cross-region analysis. 2018 , 62, 73-85	15
844	A novel artificial bee colony algorithm with local and global information interaction. 2018 , 62, 702-735	28

843	An Interleaved Artificial Bee Colony algorithm for dynamic optimisation problems. 2018 , 30, 272-284	5
842	Dynamic affinity-based classification of multi-class imbalanced data with one-versus-one decomposition: a fuzzy rough set approach. 2018 , 56, 55-84	22
841	Comparative density peaks clustering. 2018 , 95, 236-247	45
840	Kernel averaged gradient descent subtractive clustering for exemplar selection. 2018 , 9, 285-297	2
839	Multiview Privileged Support Vector Machines. 2018 , 29, 3463-3477	42
838	Self-labeling techniques for semi-supervised time series classification: an empirical study. 2018 , 55, 493-528	12
837	KGSA: A Gravitational Search Algorithm for Multimodal Optimization based on K-Means Niching Technique and a Novel Elitism Strategy. 2018 , 16, 1582-1606	7
836	Topology and Topic-Aware Service Clustering. 2018 , 15, 18-37	9
835	Experimental Evaluation of Different Membership Functions on Weighted Pattern Trees for Diatom Modelling. 2018 ,	
834	MOVELETS. 2018 ,	14
833	Evaluation of Yager Families of Aggregation Operators in Discovering the Diatoms Indicating Properties. 2018 ,	
832	Leveraging Ensemble Pruning for Imbalanced Data Classification. 2018 ,	1
831	An Ensemble SSL Algorithm for Efficient Chest X-Ray Image Classification. 2018 , 4, 95	19
830	Interrupting Drivers for Interactions. 2018 , 2, 1-28	10
829	Stochastic Sensitivity Measure-Based Noise Filtering and Oversampling Method for Imbalanced Classification Problems. 2018 ,	4
828	Exploitation Enhanced Sine Cosine Algorithm with Compromised Population Diversity for Optimization. 2018 ,	2
827	EB-Boost: Medium-Long Term Forecasting Method of Supplies of Shared E-Cars in Smart Scenic Spots. 2018 ,	
826	Measures to report the Location Problem of Model Fragment Location. 2018 ,	6

825	Ensemble based on Constraint Projection and Under-Sampling for Imbalanced Learning. 2018,	1
824	Targeting Customers for Profit: An Ensemble Learning Framework to Support Marketing Decision Making. 2018,	5
823	Embedding Undersampling Rotation Forest for Imbalanced Problem. 2018, 2018, 6798042	4
822	Feature Selection for High Dimensional Data Using Monte Carlo Tree Search. 2018, 6, 76036-76048	9
821	Addressing Local Class Imbalance in Balanced Datasets with Dynamic Impurity Decision Trees. 2018 , 3-17	1
820	Statistical evaluation of corner detectors: does the statistical test have an effect?. 2018, 12, 1018-1030	
819	Evolutionary Algorithm for Bug Localization in the Reconfigurations of Models at Runtime. 2018,	1
818	A first approach towards the usage of classifiers' performance to create fuzzy measures for ensembles of classifiers: a case study on highly imbalanced datasets. 2018,	0
817	Learning Classification Rules with Differential Evolution for High-Speed Data Stream Mining on GPUs. 2018,	2
816	An Approach Based on Contrast Patterns for Bot Detection on Web Log Files. 2018, 276-285	4
815	Using a Many-Objective Optimization Algorithm to Select Sampling Approaches for Imbalanced Datasets. 2018,	1
814	Recommending Meta-Heuristics and Configurations for the Flowshop Problem via Meta-Learning: Analysis and Design. 2018,	1
813	Electric Vehicle Charging Scheduling by an Enhanced Artificial Bee Colony Algorithm. 2018, 11, 2752	19
812	Coyote Optimization Algorithm: A New Metaheuristic for Global Optimization Problems. 2018,	166
811	KNN-based multi-label twin support vector machine with priority of labels. 2018, 322, 177-186	9
810	Imbalanced Learning Based on Data-Partition and SMOTE. 2018, 9, 238	7
809	Ensemble based on feature projection and under-sampling for imbalanced learning. 2018, 22, 959-980	3
808	A Novel Honey-Bees Mating Optimization Approach with Higher order Neural Network for Classification. 2018, 35, 511-548	6

807	Ensemble Learning. 2018 , 147-196	3
806	An Auto-Adjustable Semi-Supervised Self-Training Algorithm. 2018 , 11, 139	9
805	A Preliminary Study on Automatic Algorithm Selection for Short-Term Traffic Forecasting. 2018 , 204-214	3
804	Biomedical literature classification with a CNNs-based hybrid learning network. 2018 , 13, e0197933	6
803	A New Effective Machine Learning Framework for Sepsis Diagnosis. 2018 , 6, 48300-48310	38
802	MIMO antenna selection using biogeography-based optimization with nonlinear migration models. 2018 , 31, e3813	1
801	Performance Analysis of Granular versus Traditional Neural Network Classifiers: Preliminary Results. 2018 ,	2
800	A multi-start iterated local search algorithm for the uncapacitated single allocation hub location problem. 2018 , 73, 230-241	4
799	Efficient All-and-One Support Vector Machines Based on One-versus-All Data Inseparability. 2018 ,	
798	Cooperative multi-objective evolutionary support vector machines for multiclass problems. 2018 ,	0
797	. 2018 ,	1
796	Dynamic ensemble selection for multi-class classification with one-class classifiers. 2018 , 83, 34-51	38
795	Robust identification of email tracking: A machine learning approach. 2018 , 271, 341-356	8
794	A rejection inference technique based on contrastive pessimistic likelihood estimation for P2P lending. 2018 , 30, 111-124	23
793	Snapshot ensembles of non-negative matrix factorization for stability of topic modeling. 2018 , 48, 3963-3975	7
792	Robustness Analysis of an Outranking Model Parameters Elicitation Method in the Presence of Noisy Examples. 2018 , 2018, 1-10	7
791	An Improved Artificial Bee Colony Algorithm Based on Factor Library and Dynamic Search Balance. 2018 , 2018, 1-16	1
790	A bipolar knowledge representation model to improve supervised fuzzy classification algorithms. 2018 , 22, 5121-5146	4

789	Ensemble of Rotation Trees for Imbalanced Medical Datasets. 2018 , 2018, 8902981	1
788	A Novel History-driven Artificial Bee Colony Algorithm for Data Clustering. 2018 , 71, 226-241	28
787	Multi-view learning based on nonparallel support vector machine. 2018 , 158, 94-108	23
786	ASBSO: An Improved Brain Storm Optimization With Flexible Search Length and Memory-Based Selection. 2018 , 6, 36977-36994	24
785	Improving particle swarm optimization via adaptive switching asynchronous & synchronous update. 2018 , 72, 298-311	13
784	UnPART: PART without the ∂ artial condition of it. <i>Information Sciences</i> , 2018 , 465, 505-522	7-7 1
783	A Novel Hybrid-Based Ensemble for Class Imbalance Problem. 2018 , 27, 1850025	1
782	Fragment retrieval on models for model maintenance: Applying a multi-objective perspective to an industrial case study. 2018 , 103, 188-201	8
781	An Adaptive Oversampling Technique for Imbalanced Datasets. 2018 , 1-16	2
780	Natural selection methods for Grey Wolf Optimizer. 2018 , 113, 481-498	55
779	On the Influence of Modification Timespan Weightings in the Location of Bugs in Models. 2018 , 169-185	
778	A novel formulation of orthogonal polynomial kernel functions for SVM classifiers: The Gegenbauer family. 2018 , 84, 211-225	36
777	Genetic Programming-based induction of a glucose-dynamics model for telemedicine. 2018 , 119, 1-13	11
776	A hybrid multi-objective AIS-based algorithm applied to simulation-based optimization of material handling system. 2018 , 71, 553-567	9
775	Achieving Feature Location in Families of Models Through the Use of Search-Based Software Engineering. 2018 , 22, 363-377	11
774	Improving time series forecasting: An approach combining bootstrap aggregation, clusters and exponential smoothing. 2018 , 34, 748-761	22
773	A Comparison of Lucene Search Queries Evolved as Text Classifiers. 2018 , 32, 768-784	5
772	Experimental Comparisons of Metaheuristic Algorithms in Solving Combined Economic Emission Dispatch Problem Using Parametric and Non-Parametric Tests. 2018 , 32, 845-857	3

771	kluster: An Efficient Scalable Procedure for Approximating the Number of Clusters in Unsupervised Learning. 2018 , 13, 38-51	2
770	CST-Voting: A semi-supervised ensemble method for classification problems. 2018 , 35, 99-109	6
769	Optimizing renewable based generations in AC/DC microgrid system using hybrid Nelder-Mead □ Cuckoo Search algorithm. 2018 , 158, 204-215	33
768	Deep Gaussian Process autoencoders for novelty detection. 2018 , 107, 1363-1383	6
767	Automatic query reformulations for feature location in a model-based family of software products. 2018 , 116, 159-176	6
766	Integration of an improved dynamic ensemble selection approach to enhance one-vs-one scheme. 2018 , 74, 43-53	10
765	A Comparative Study of Ontology Matching Systems via Inferential Statistics. 2019 , 31, 615-628	16
764	Instance reduction for one-class classification. 2019 , 59, 601-628	16
763	Active Learning From Imbalanced Data: A Solution of Online Weighted Extreme Learning Machine. 2019 , 30, 1088-1103	56
762	Concave-Convex Programming for Ramp Loss-Based Maximum Margin and Minimum Volume Twin Spheres Machine. 2019 , 50, 1093-1114	0
761	Two-Dimensional (2D) particle swarms for structure selection of nonlinear systems. 2019 , 367, 114-129	6
760	A Novel Design Approach for 5G Massive MIMO and NB-IoT Green Networks Using a Hybrid Jaya-Differential Evolution Algorithm. 2019 , 7, 105687-105700	26
759	. 2019 , 15, 4819-4829	20
758	Experimental Study on 164 Algorithms Available in Software Tools for Solving Standard Non-Linear Regression Problems. 2019 , 7, 108916-108939	7
757	Rank-Based Gravitational Search Algorithm: a Novel Nature-Inspired Optimization Algorithm for Wireless Sensor Networks Clustering. 2019 , 11, 719-734	10
756	Using Bayesian networks to perform reject inference. 2019 , 137, 349-356	14
755	Bibliography. 2019 , 337-353	
754	Web genre classification with methods for structured output prediction. <i>Information Sciences</i> , 2019 , 503, 551-573	7.7 8

753	Multi-head CNN-BNN for multi-time series anomaly detection: An industrial case study. 2019 , 363, 246-260	89
752	An improved differential evolution algorithm using Archimedean spiral and neighborhood search based mutation approach for cluster analysis. 2019 , 101, 921-939	8
751	A multi-scheme semi-supervised regression approach. 2019 , 125, 758-765	9
750	Numerical optimization and feed-forward neural networks training using an improved optimization algorithm: multiple leader salp swarm algorithm. 2019 , 1	9
749	Application of New Hybrid Jaya Grey Wolf Optimizer to Antenna Design for 5G Communications Systems. 2019 , 7, 71061-71071	16
748	An adaptive weight vector guided evolutionary algorithm for preference-based multi-objective optimization. 2019 , 49, 220-233	47
747	BP δ NN: δ -Nearest Neighbor Classifier With Pairwise Distance Metrics and Belief Function Theory. 2019 , 7, 48935-48947	14
746	Predicting Intentions of Students for Master Programs Using a Chaos-Induced Sine Cosine-Based Fuzzy K-Nearest Neighbor Classifier. 2019 , 7, 67235-67248	63
745	Lie on the Fly: Strategic Voting in an Iterative Preference Elicitation Process. 2019 , 28, 1077-1107	2
744	Cultural coyote optimization algorithm applied to a heavy duty gas turbine operation. 2019 , 199, 111932	43
743	Do we still need fuzzy classifiers for Small Data in the Era of Big Data?. 2019 ,	4
742	Enhancing Firefly Algorithm with Best Neighbor Guided Search Strategy. 2019 , 24, 524-536	4
741	Network Flow-Based Refinement for Multilevel Hypergraph Partitioning. 2019 , 24, 1-36	4
740	Distributed Selection of Continuous Features in Multilabel Classification Using Mutual Information. 2020 , 31, 2280-2293	9
739	A Multiple Diversity-Driven Brain Storm Optimization Algorithm With Adaptive Parameters. 2019 , 7, 126871-126888	14
738	Wrapper for Building Classification Models Using Covering Arrays. 2019 , 7, 148297-148312	4
737	A memetic approach for training set selection in imbalanced data sets. 2019 , 10, 3043-3070	3
736	Solving constrained optimal power flow with renewables using hybrid modified imperialist competitive algorithm and sequential quadratic programming. 2019 , 177, 105989	18

735	Active semi-supervised overlapping community finding with pairwise constraints. 2019 , 4,	2
734	Portfolio optimization by improved NSGA-II and SPEA 2 based on different risk measures. 2019 , 5,	14
733	A Semi-Supervised Regression Algorithm for Grade Prediction of Students in Distance Learning Courses. 2019 , 28, 1940001	12
732	Needle in a haystack: Mapping rare and infrequent crops using satellite imagery and data balancing methods. 2019 , 233, 111375	24
731	Qualitative data clustering: a new Integer Linear Programming model. 2019 ,	
730	An Improved Over-sampling Algorithm based on iForest and SMOTE. 2019 ,	1
729	Information Theoretic Multi-Target Feature Selection via Output Space Quantization. 2019 , 21, 855	7
728	Similar Prototype Methods for Class Imbalanced Data Classification. 2019 , 193-209	3
727	Performance Comparison of Machine Learning Platforms. 2019 , 31, 207-225	2
726	Controlled showering optimization algorithm: an intelligent tool for decision making in global optimization. 2019 , 25, 132-164	2
725	Bi-sparse optimization-based least squares regression. 2019 , 77, 300-315	7
724	Elucidation of stability profiles of common chemistry analytes in serum stored at six graded temperatures. 2019 , 57, 1388-1396	6
723	A niching indicator-based multi-modal many-objective optimizer. 2019 , 49, 134-146	32
722	Tree-based ensembles unveil the microhabitat suitability for the invasive bleak (<i>Alburnus alburnus</i> L.) and pumpkinseed (<i>Lepomis gibbosus</i> L.): Introducing XGBoost to eco-informatics. 2019 , 53, 100974	8
721	An efficient regularized K-nearest neighbor structural twin support vector machine. 2019 , 49, 4258-4275	8
720	Selection of Software Product Line Implementation Components Using Recommender Systems: An Application to Wordpress. 2019 , 7, 69226-69245	12
719	A Recursive General Regression Neural Network (R-GRNN) Oracle for classification problems. 2019 , 135, 273-286	15
718	Metaheuristics and Classifier Ensembles. 2019 , 733-779	1

717	Efficient feature selection of power quality events using two dimensional (2D) particle swarms. 2019 , 81, 105498	7
716	Beyond majority: Label ranking ensembles based on voting rules. 2019 , 136, 50-61	16
715	A Classification Model For Class Imbalance Dataset Using Genetic Programming. 2019 , 7, 71013-71037	31
714	A hybrid heuristic for the overlapping cluster editing problem. 2019 , 81, 105482	5
713	Orthopartitions and soft clustering: Soft mutual information measures for clustering validation. 2019 , 180, 51-61	18
712	Active learning Rotation Forest for multiclass classification. 2019 , 35, 891-918	5
711	Cellular Estimation Gaussian Algorithm for Continuous Domain. 2019 , 36, 4957-4967	5
710	Compact Belief Rule Base Learning for Classification with Evidential Clustering. 2019 , 21,	3
709	An efficient particle swarm optimization algorithm to solve optimal power flow problem integrated with FACTS devices. 2019 , 80, 243-262	73
708	Effects of Muscarinic Acetylcholine m1 and m4 Receptor Blockade on Dyskinesia in the Hemi-Parkinsonian Rat. 2019 , 409, 180-194	18
707	Cost-Sensitive Pattern-Based classification for Class Imbalance problems. 2019 , 7, 60411-60427	12
706	General twin support vector machine with pinball loss function. <i>Information Sciences</i> , 2019 , 494, 311-327	7 50
705	Interpretable Multiview Early Warning System Adapted to Underrepresented Student Populations. 2019 , 12, 198-211	21
704	Multiview Learning for Early Prognosis of Academic Performance: A Case Study. 2019 , 12, 212-224	10
703	An approach for bug localization in models using two levels: model and metamodel. 2019 , 18, 3551-3576	4
702	A lossless online Bayesian classifier. <i>Information Sciences</i> , 2019 , 489, 1-17	7-7 5
701	Automatic characterisation of dye decolourisation in fungal strains using expert, traditional, and deep features. 2019 , 23, 12799-12812	6
700	Chaos-Induced and Mutation-Driven Schemes Boosting Salp Chains-Inspired Optimizers. 2019 , 7, 31243-31261	62

699	Mutual equidistant-scattering criterion: A new index for crisp clustering. 2019 , 128, 225-245		3
698	A novel statistical approach for comparing meta-heuristic stochastic optimization algorithms according to the distribution of solutions in the search space. <i>Information Sciences</i> , 2019 , 489, 255-273	7.7	26
697	Evolving fuzzy and neuro-fuzzy approaches in clustering, regression, identification, and classification: A Survey. <i>Information Sciences</i> , 2019 , 490, 344-368	7.7	120
696	. 2019 , 12, 685-699		10
695	Island flower pollination algorithm for global optimization. 2019 , 75, 5280-5323		29
694	Label noise filtering techniques to improve monotonic classification. 2019 , 353, 83-95		5
693	Generative learning for imbalanced data using the Gaussian mixed model. 2019 , 79, 439-451		6
692	Enhanced Moth-flame optimizer with mutation strategy for global optimization. <i>Information Sciences</i> , 2019 , 492, 181-203	7.7	279
691	Effect of the Sampling of a Dataset in the Hyperparameter Optimization Phase over the Efficiency of a Machine Learning Algorithm. 2019 , 2019, 1-16		18
690	A distance-based weighting framework for boosting the performance of dynamic ensemble selection. 2019 , 56, 1300-1316		10
689	An efficient chaotic mutative moth-flame-inspired optimizer for global optimization tasks. 2019 , 129, 135-155		142
688	Machine learning algorithms for predicting drugs issues relationships. 2019 , 127, 167-186		7
687	. 2019 , 27, 2353-2367		40
686	A balanced whale optimization algorithm for constrained engineering design problems. 2019 , 71, 45-59		156
685	An improved non-parallel Universum support vector machine and its safe sample screening rule. 2019 , 170, 79-88		42
684	Kalman Filter-based Heuristic Ensemble (KFHE): A new perspective on multi-class ensemble classification using Kalman filters. <i>Information Sciences</i> , 2019 , 485, 456-485	7.7	8
683	FF-SMOTE: A Metaheuristic Approach to Combat Class Imbalance in Binary Classification. 2019 , 33, 420-439		11
682	Undersampling Near Decision Boundary for Imbalance Problems. 2019 ,		6

681	Experimental Design and Analysis of Sound Event Detection Systems: Case Studies. 2019,		0
680	ElementRank: Ranking Java Software Classes and Packages using a Multilayer Complex Network-Based Approach. 2019, 1-1		24
679	Performance Analysis and Ranking of Data Mining Algorithms Across Multiple Datasets. 2019,		
678	An Effective Multiclass Twin Hypersphere Support Vector Machine and Its Practical Engineering Applications. 2019, 8, 1195		1
677	Multi-level thresholding based on differential evolution and Tsallis Fuzzy entropy. 2019, 91, 103792		8
676	Design and Analysis of Alphabetical Slots of Patch Antenna for Mobile Optical Communication at 60 GHz. 2019,		0
675	. 2019, 7, 170668-170681		17
674	Identifying practical significance through statistical comparison of meta-heuristic stochastic optimization algorithms. 2019, 85, 105862		6
673	Differential evolution algorithm directed by individual difference information between generations and current individual information. 2019, 49, 628-649		7
672	A weighted pattern matching approach for classification of imbalanced data with a fireworks-based algorithm for feature selection. 2019, 31, 143-168		16
671	Automated Neuron Detection in High-Content Fluorescence Microscopy Images Using Machine Learning. 2019, 17, 253-269		7
670	Graph clustering-based discretization approach to microarray data. 2019, 60, 879-906		1
669	A factor graph model for unsupervised feature selection. <i>Information Sciences</i> , 2019, 480, 144-159	7.7	15
668	Improving the drug discovery process by using multiple classifier systems. 2019, 121, 292-303		11
667	Linear discriminant analysis guided by unsupervised ensemble learning. <i>Information Sciences</i> , 2019, 480, 211-221	7.7	20
666	Group influence based improved firefly algorithm for Design Space Exploration of Datapath resource allocation. 2019, 49, 2084-2100		5
665	Bandit-based cooperative coevolution for tackling contribution imbalance in large-scale optimization problems. 2019, 76, 265-281		11
664	Nonnegative matrix factorization for clustering ensemble based on dark knowledge. 2019, 163, 624-631		10

663	A safe screening rule for accelerating weighted twin support vector machine. 2019 , 23, 7725-7739	2
662	On Convergence of the Class Membership Estimator in Fuzzy k -Nearest Neighbor Classifier. 2019 , 27, 1226-1236	5
661	Evolutionary fuzzification of RIPPER for regression: Case study of stock prediction. 2019 , 331, 121-137	17
660	Feature Selection With Ensemble Learning Based on Improved Dempster-Shafer Evidence Fusion. 2019 , 7, 9032-9045	4
659	. 2019 , 27, 1779-1792	17
658	Clinical intelligence: New machine learning techniques for predicting clinical drug response. 2019 , 107, 302-322	11
657	Association rule mining based parameter adaptive strategy for differential evolution algorithms. 2019 , 123, 54-69	15
656	Supervised feature selection via matrix factorization based on singular value decomposition. 2019 , 185, 105-113	6
655	Avoiding the Inherent Limitations in Datasets Used for Measuring Aesthetics When Using a Machine Learning Approach. 2019 , 2019, 1-12	5
654	Evolving rule-based classifiers with genetic programming on GPUs for drifting data streams. 2019 , 87, 248-268	24
653	Fuzzy One-Class Extreme Auto-encoder. 2019 , 50, 701-727	8
652	Changes in the Morphology of Hypoglossal Motor Neurons in the Brainstem of Developing Rats. 2019 , 302, 869-892	6
651	A directional crossover (DX) operator for real parameter optimization using genetic algorithm. 2019 , 49, 1841-1865	15
650	Dedicated Ultrasound Speckle Tracking for Quantitative Analysis of Uterine Motion Outside Pregnancy. 2019 , 66, 581-590	10
649	Restricted Boltzmann Machines With Gaussian Visible Units Guided by Pairwise Constraints. 2019 , 49, 4321-4334	15
648	Sample size estimation for power and accuracy in the experimental comparison of algorithms. 2019 , 25, 305-338	7
647	A two ensemble system to handle concept drifting data streams: recurring dynamic weighted majority. 2019 , 10, 563-578	6
646	An in-depth experimental study of anomaly detection using gradient boosted machine. 2019 , 31, 955-965	38

645	Gravitational search algorithm with both attractive and repulsive forces. 2019 , 23, 783-825	18
644	KNN-based maximum margin and minimum volume hyper-sphere machine for imbalanced data classification. 2019 , 10, 357-368	8
643	Semi-supervised multi-view maximum entropy discrimination with expectation Laplacian regularization. 2019 , 45, 296-306	24
642	LGND: a new method for multi-class novelty detection. 2019 , 31, 3339-3355	0
641	. 2019 , 13, 670-679	1
640	On distributed user-centric memetic algorithms. 2019 , 23, 4019-4039	2
639	A modified particle swarm optimization for large-scale numerical optimizations and engineering design problems. 2019 , 30, 2407-2433	14
638	Accelerating differential evolution based on a subset-to-subset survivor selection operator. 2019 , 23, 4113-4130	6
637	Tree-based classifier ensembles for early detection method of diabetes: an exploratory study. 2019 , 51, 355-370	26
636	A Memetic Algorithm-Based Design Space Exploration for Datapath Resource Allocation During High-Level Synthesis. 2020 , 29, 2050001	0
635	Radial-Based Oversampling for Multiclass Imbalanced Data Classification. 2020 , 31, 2818-2831	23
634	Enhancing techniques for learning decision trees from imbalanced data. 2020 , 14, 677-745	6
633	A neutral mutated operator applied for DE algorithms. 2020 , 11, 3559-3574	1
632	Incorporating textual information in customer churn prediction models based on a convolutional neural network. 2020 , 36, 1563-1578	26
631	Gaussian mutational chaotic fruit fly-built optimization and feature selection. 2020 , 141, 112976	123
630	Chaos-enhanced synchronized bat optimizer. 2020 , 77, 1201-1215	64
629	Kappa Updated Ensemble for drifting data stream mining. 2020 , 109, 175-218	50
628	Landscape-assisted multi-operator differential evolution for solving constrained optimization problems. 2020 , 162, 113033	16

627	Efficient multi-population outpost fruit fly-driven optimizers: Framework and advances in support vector machines. 2020 , 142, 112999	64
626	An efficient double adaptive random spare reinforced whale optimization algorithm. 2020 , 154, 113018	64
625	Probabilistic Forecasting With Fuzzy Time Series. 2020 , 28, 1771-1784	24
624	Choosing the proper autoencoder for feature fusion based on data complexity and classifiers: Analysis, tips and guidelines. 2020 , 54, 44-60	16
623	A novel error-output recurrent neural network model for time series forecasting. 2020 , 32, 9621-9647	10
622	Forecasting across time series databases using recurrent neural networks on groups of similar series: A clustering approach. 2020 , 140, 112896	80
621	A multi-strategy enhanced sine cosine algorithm for global optimization and constrained practical engineering problems. 2020 , 369, 124872	62
620	Identifying crisis-related informative tweets using learning on distributions. 2020 , 57, 102145	13
619	Triangular Gaussian mutation to differential evolution. 2020 , 24, 9307-9320	2
618	A comparative evaluation of novelty detection algorithms for discrete sequences. 2020 , 53, 3787-3812	5
617	Ensemble learning via constraint projection and undersampling technique for class-imbalance problem. 2020 , 24, 4711-4727	4
616	Self-adaptive collective intelligence-based mutation operator for differential evolution algorithms. 2020 , 76, 876-896	4
615	Conditional Wasserstein generative adversarial network-gradient penalty-based approach to alleviating imbalanced data classification. <i>Information Sciences</i> , 2020 , 512, 1009-1023	7-7 40
614	An automatic estimation of the ridge parameter for extreme learning machine. 2020 , 30, 013106	2
613	A new hybrid algorithm to solve bound-constrained nonlinear optimization problems. 2020 , 32, 12427-12452	10
612	HELAD: A novel network anomaly detection model based on heterogeneous ensemble learning. 2020 , 169, 107049	46
611	Ensemble belief rule base modeling with diverse attribute selection and cautious conjunctive rule for classification problems. 2020 , 146, 113161	10
610	BPDET: An effective software bug prediction model using deep representation and ensemble learning techniques. 2020 , 144, 113085	27

609	ISA: a hybridization between iterated local search and simulated annealing for multiple-runway aircraft landing problem. 2020 , 32, 11745-11765	6
608	Application of Cuckoo Search algorithm to Loading Pattern Optimization problems. 2020 , 139, 107214	8
607	Advanced orthogonal learning-driven multi-swarm sine cosine optimization: Framework and case studies. 2020 , 144, 113113	57
606	Sparse feature selection: Relevance, redundancy and locality structure preserving guided by pairwise constraints. 2020 , 87, 105956	7
605	A Novel Brain Storm Optimization Algorithm Driven by Sine-Cosine Search Mechanism. 2020 ,	1
604	An Improved Grasshopper Optimizer for Global Tasks. 2020 , 2020, 1-23	3
603	An Overview of Bioinformatics Tools for DNA Meta-Barcoding Analysis of Microbial Communities of Bioaerosols: Digest for Microbiologists. 2020 , 10,	0
602	Time-Series Classification with Constrained DTW Distance and Inverse-Square Weighted k-NN. 2020	3
601	A hybrid Harris hawks-Nelder-Mead optimization for practical nonlinear ordinary differential equations. 2020 , 1	4
600	An exploration of userfacet interaction in collaborative-based personalized multiple facet selection. 2020 , 209, 106444	2
599	Dynamic Gaussian bare-bones fruit fly optimizers with abandonment mechanism: method and analysis. 2020 , 1	50
598	Multi-population following behavior-driven fruit fly optimization: A Markov chain convergence proof and comprehensive analysis. 2020 , 210, 106437	36
597	An Experimental Investigation of Calibration Techniques for Imbalanced Data. 2020 , 8, 127343-127352	2
596	High-performance differential evolution algorithm guided by information from individuals with potential. 2020 , 95, 106531	1
595	Comparing manual and automated feature location in conceptual models: A Controlled experiment. 2020 , 125, 106337	2
594	Combined Cleaning and Resampling algorithm for multi-class imbalanced data with label noise. 2020 , 204, 106223	27
593	Shape-based outlier detection in multivariate functional data. 2020 , 198, 105960	0
592	Chaotic oppositional sine-cosine method for solving global optimization problems. 2020 , 1	34

591	An Enhanced Comprehensive Learning Particle Swarm Optimizer with the Elite-Based Dominance Scheme. 2020 , 2020, 1-24	7
590	Software Defect Prediction Based on Fuzzy Weighted Extreme Learning Machine with Relative Density Information. 2020 , 2020, 1-18	3
589	Application of grey wolf optimization algorithm for load frequency control in multi-source single area power system. 2020 , 1	9
588	Sample size calculations for the experimental comparison of multiple algorithms on multiple problem instances. 2020 , 26, 851-883	1
587	Least squares KNN-based weighted multiclass twin SVM. 2020 ,	12
586	A practical tutorial on bagging and boosting based ensembles for machine learning: Algorithms, software tools, performance study, practical perspectives and opportunities. 2020 , 64, 205-237	46
585	Adversarial joint domain adaptation of asymmetric feature mapping based on least squares distance. 2020 , 136, 251-256	2
584	Making decisions for frost prediction in agricultural crops in a soft computing framework. 2020 , 175, 105587	5
583	Weighted kNN and constrained elastic distances for time-series classification. 2020 , 162, 113829	16
582	Towards Accurate Predictions and Causal What-if Analyses for Planning and Policy-making: A Case Study in Emergency Medical Services Demand. 2020 ,	3
581	A Comparative Performance Evaluation of Classification Algorithms for Clinical Decision Support Systems. 2020 , 8, 1814	7
580	Structure-activity relationship-based chemical classification of highly imbalanced Tox21 datasets. 2020 , 12, 66	14
579	Minority Oversampling Using Sensitivity. 2020 ,	1
578	BoostLR: A Boosting-Based Learning Ensemble for Label Ranking Tasks. 2020 , 8, 176023-176032	5
577	An Empirical Study on Supervised and Unsupervised Fuzzy Measure Construction Methods in Highly Imbalanced Classification. 2020 ,	0
576	Fault Diagnostic Method Based on Deep Learning and Multimodel Feature Fusion for Complex Industrial Processes. 2020 , 59, 18061-18069	6
575	Heuristic Space Diversity Measures for Population-based Hyper-heuristics. 2020 ,	
574	Multi-Operator Differential Evolution Algorithm for Solving Real-World Constrained Optimization Problems. 2020 ,	4

573	Layers Sequence Optimizing for Deep Neural Networks using Multiples Objectives. 2020 ,	0
572	Decision Space Coverage of Random Walks. 2020 ,	0
571	Improved Multi-operator Differential Evolution Algorithm for Solving Unconstrained Problems. 2020 ,	40
570	An interpretable regression approach based on bi-sparse optimization. 2020 , 50, 4117-4142	0
569	A Hybrid Pathfinder Optimizer for Unconstrained and Constrained Optimization Problems. 2020 , 2020, 5787642	3
568	Evolutionary Framework With Reinforcement Learning-Based Mutation Adaptation. 2020 , 8, 194045-194071	5
567	Exceptional in so Many Ways Discovering Descriptors That Display Exceptional Behavior on Contrasting Scenarios. 2020 , 8, 200982-200994	1
566	Classifying Metaheuristics: Towards a unified multi-level classification system. 2020 , 1	11
565	Overlapping community finding with noisy pairwise constraints. 2020 , 5, 98	
564	Multi-Objective Economic Scheduling of a Shipboard Microgrid Based on Self-Adaptive Collective Intelligence DE Algorithm. 2020 , 8, 73204-73219	3
563	A Meta-Heuristic-Based Approach for Qos-Aware Service Composition. 2020 , 8, 69579-69592	14
562	An analysis of boosted ensembles of binary fuzzy decision trees. 2020 , 154, 113436	9
561	. 2020 , 8, 103124-103140	5
560	Multiple Imputation Ensembles (MIE) for Dealing with Missing Data. 2020 , 1, 1	9
559	Boosted hunting-based fruit fly optimization and advances in real-world problems. 2020 , 159, 113502	13
558	Recurrent neural network with pooling operation and attention mechanism for sentiment analysis: A multi-task learning approach. 2020 , 203, 105856	19
557	Boosting label weighted extreme learning machine for classifying multi-label imbalanced data. 2020 , 403, 360-370	12
556	Pareto dominance based Multiobjective Cohort Intelligence algorithm. <i>Information Sciences</i> , 2020 , 538, 69-118	7.7 11

555	A Collective Intelligence Based Differential Evolution Algorithm for Optimizing the Structure and Parameters of a Neural Network. 2020 , 8, 69601-69614	5
554	Ramp loss for twin multi-class support vector classification. 2020 , 51, 1448-1463	4
553	Iterative Robust Semi-Supervised Missing Data Imputation. 2020 , 8, 90555-90569	11
552	Multiobjective optimization of deep neural networks with combinations of Lp-norm cost functions for 3D medical image super-resolution. 2020 , 27, 233-251	17
551	A novel tree-based dynamic heterogeneous ensemble method for credit scoring. 2020 , 159, 113615	25
550	Uncertainty mode selection in categorical clustering using the rough set theory. 2020 , 158, 113555	6
549	Biomedical Classification Problems Automatically Solved by Computational Intelligence Methods. 2020 , 8, 101104-101117	1
548	Levy-based antlion-inspired optimizers with orthogonal learning scheme. 2020 , 1	30
547	Perceiving heavily occluded human poses by assigning unbiased score. <i>Information Sciences</i> , 2020 , 537, 284-301	7·7 2
546	A robust time series prediction method based on empirical mode decomposition and high-order fuzzy cognitive maps. 2020 , 203, 106105	10
545	A dynamic ensemble outlier detection model based on an adaptive k-nearest neighbor rule. 2020 , 63, 30-40	15
544	Cost-sensitive learning classification strategy for predicting product failures. 2020 , 161, 113653	10
543	. 2020 , 1-1	3
542	A cluster-based hybrid sampling approach for imbalanced data classification. 2020 , 91, 055101	6
541	FrlmCla: A Framework for Image Classification Using Traditional and Transfer Learning Techniques. 2020 , 8, 53443-53455	6
540	Enhancing artificial bee colony algorithm using refraction principle. 2020 , 24, 15291-15306	6
539	m-OCKRA: An Efficient One-Class Classifier for Personal Risk Detection, Based on Weighted Selection of Attributes. 2020 , 8, 41749-41763	1
538	. 2020 , 8, 49137-49159	4

537	Rationalized Sine Cosine Optimization With Efficient Searching Patterns. 2020 , 8, 61471-61490	18
536	Ensembling Artificial Bee Colony With Analogy-Based Estimation to Improve Software Development Effort Prediction. 2020 , 8, 58402-58415	6
535	A Hybrid Neuro-Fuzzy and Feature Reduction Model for Classification. 2020 , 2020, 1-15	10
534	SMOTEFRIS-INFFC: Handling the challenge of borderline and noisy examples in imbalanced learning for software defect prediction. 2020 , 38, 917-933	5
533	An ensemble imbalanced classification method based on model dynamic selection driven by data partition hybrid sampling. 2020 , 160, 113660	18
532	If dropout limits trainable depth, does critical initialisation still matter? A large-scale statistical analysis on ReLU networks. 2020 , 138, 95-105	
531	Pruning of genetic programming trees using permutation tests. 2020 , 13, 649-661	4
530	Time and Individual Duration in Genetic Programming. 2020 , 8, 38692-38713	6
529	Recent trends in the use of statistical tests for comparing swarm and evolutionary computing algorithms: Practical guidelines and a critical review. 2020 , 54, 100665	159
528	Predicting Green Consumption Behaviors of Students Using Efficient Firefly Grey Wolf-Assisted K-Nearest Neighbor Classifiers. 2020 , 8, 35546-35562	41
527	Cost-sensitive business failure prediction when misclassification costs are uncertain: A heterogeneous ensemble selection approach. 2020 , 285, 612-630	17
526	Energy-Based Acoustic Localization by Improved Elephant Herding Optimization. 2020 , 8, 28548-28559	10
525	Feature extraction from EEG spectrograms for epileptic seizure detection. 2020 , 133, 202-209	12
524	Scalable and customizable benchmark problems for many-objective optimization. 2020 , 90, 106139	9
523	FMDBN: A first-order Markov dynamic Bayesian network classifier with continuous attributes. 2020 , 195, 105638	7
522	A Symmetric Sine Cosine Algorithm With Adaptive Probability Selection. 2020 , 8, 25272-25285	9
521	Medical disease analysis using Neuro-Fuzzy with Feature Extraction Model for classification. 2020 , 18, 100288	19
520	Traceability Link Recovery between Requirements and Models using an Evolutionary Algorithm Guided by a Learning to Rank Algorithm: Train control and management case. 2020 , 163, 110519	10

519	Biomedical data analysis using neuro-fuzzy model with post-feature reduction. 2020 ,	9
518	GEV-NN: A deep neural network architecture for class imbalance problem in binary classification. 2020 , 194, 105534	13
517	. 2020 , 1-1	6
516	A multi-breakpoints approach for symbolic discretization of time series. 2020 , 62, 2795-2834	3
515	Twin Hyper-Ellipsoidal Support Vector Machine for Binary Classification. 2020 , 8, 87341-87353	3
514	Custom Domain Adaptation: A New Method for Cross-Subject, EEG-Based Cognitive Load Recognition. 2020 , 27, 750-754	11
513	Rationalized fruit fly optimization with sine cosine algorithm: A comprehensive analysis. 2020 , 157, 113486	39
512	Fuzzy logic-based decision-making system design for safe forklift truck speed: cast cobblestone production application. 2020 , 24, 14907-14920	0
511	Improved K2 algorithm for Bayesian network structure learning. 2020 , 91, 103617	9
510	Unsupervised Fuzzy Measure Learning for Classifier Ensembles From Coalitions Performance. 2020 , 8, 52288-52305	0
509	Evaluation of Sino Foreign Cooperative Education Project Using Orthogonal Sine Cosine Optimized Kernel Extreme Learning Machine. 2020 , 8, 61107-61123	52
508	Predicting Entrepreneurial Intention of Students: An Extreme Learning Machine With Gaussian Barebone Harris Hawks Optimizer. 2020 , 8, 76841-76855	64
507	Optimal Representative Distribution Margin Machine for Multi-Instance Learning. 2020 , 8, 74864-74874	1
506	Multi-population differential evolution-assisted Harris hawks optimization: Framework and case studies. 2020 , 111, 175-198	177
505	Optimum design of reinforced concrete counterfort retaining walls using TLBO, Jaya algorithm. 2020 , 25, 285-296	9
504	Selecting effective features on prediction of delay in servicing ships arriving to ports using a combination of Clonal Selection and Grey Wolf Optimization algorithms—Case study: Shahid Rajaei port in Bandar Abbas. 2020 , 36, 1140-1160	1
503	. 2021 , 29, 1297-1310	6
502	Memetic algorithms for training feedforward neural networks: an approach based on gravitational search algorithm. 2021 , 33, 2561-2588	5

501	. 2021 , 51, 420-440		15
500	Targeting customers for profit: An ensemble learning framework to support marketing decision-making. <i>Information Sciences</i> , 2021 , 557, 286-301	7-7	24
499	Predicting donation behavior: Acquisition modeling in the nonprofit sector using Facebook data. 2021 , 141, 113446		6
498	A Neighborhood Undersampling Stacked Ensemble (NUS-SE) in imbalanced classification. 2021 , 168, 114246		4
497	Automatic feature scaling and selection for support vector machine classification with functional data. 2021 , 51, 161-184		2
496	Twin-parametric margin support vector machine with truncated pinball loss. 2021 , 33, 3781-3798		7
495	An intensify atom search optimization for engineering design problems. 2021 , 89, 837-859		11
494	Recurrent Neural Networks for Time Series Forecasting: Current status and future directions. 2021 , 37, 388-427		124
493	RCSMOTE: Range-Controlled synthetic minority over-sampling technique for handling the class imbalance problem. <i>Information Sciences</i> , 2021 , 542, 92-111	7-7	20
492	CDBH: A clustering and density-based hybrid approach for imbalanced data classification. 2021 , 164, 114035		8
491	Performance assessment of the metaheuristic optimization algorithms: an exhaustive review. 2021 , 54, 2323-2409		34
490	An incremental density-based clustering framework using fuzzy local clustering. <i>Information Sciences</i> , 2021 , 547, 404-426	7-7	7
489	On the influence of model fragment properties on a machine learning-based approach for feature location. 2021 , 129, 106430		2
488	An evolutionary approach for generating software models: The case of Kromaia in Game Software Engineering. 2021 , 171, 110804		6
487	Dimension decided Harris hawks optimization with Gaussian mutation: Balance analysis and diversity patterns. 2021 , 215, 106425		49
486	Fuzzy support vector machine for imbalanced data with borderline noise. 2021 , 413, 64-73		7
485	DBIG-US: A two-stage under-sampling algorithm to face the class imbalance problem. 2021 , 168, 114301		10
484	A multiclass classification using one-versus-all approach with the differential partition sampling ensemble. 2021 , 97, 104034		6

483	Chaos-assisted multi-population salp swarm algorithms: Framework and case studies. 2021 , 168, 114369	11
482	Regularizing extreme learning machine by dual locally linear embedding manifold learning for training multi-label neural network classifiers. 2021 , 97, 104062	19
481	Orthogonal learning covariance matrix for defects of grey wolf optimizer: Insights, balance, diversity, and feature selection. 2021 , 213, 106684	133
480	Optimization of Type-2 Fuzzy Logic Controller Design Using the GSO and FA Algorithms. 2021 , 23, 42-57	30
479	Ant colony optimization with horizontal and vertical crossover search: Fundamental visions for multi-threshold image segmentation. 2021 , 167, 114122	49
478	Chaotic random spare ant colony optimization for multi-threshold image segmentation of 2D Kapur entropy. 2021 , 216, 106510	111
477	SMOTE-WENN: Solving class imbalance and small sample problems by oversampling and distance scaling. 2021 , 51, 1394-1409	17
476	A heterogeneous ensemble credit scoring model based on adaptive classifier selection: An application on imbalanced data. 2021 , 26, 4372-4385	3
475	Binary (beta)-hill climbing optimizer with S-shape transfer function for feature selection. 2021 , 12, 7637-7665	7
474	Chaotic Local Search-Based Differential Evolution Algorithms for Optimization. 2021 , 51, 3954-3967	68
473	Multitask Feature Learning Meets Robust Tensor Decomposition for EEG Classification. 2021 , 51, 2242-2252	4
472	Neighborhood opposition-based differential evolution with Gaussian perturbation. 2021 , 25, 27-46	5
471	Comparative Evaluation of the Supervised Machine Learning Classification Methods and the Concept Drift Detection Methods in the Financial Business Problems. 2021 , 268-292	1
470	An Empirical Evaluation of Stacked Ensembles With Different Meta-Learners in Imbalanced Classification. 2021 , 9, 87434-87452	4
469	Problems selection under dynamic selection of the best base classifier in one versus one: PSEUDOVO. 2021 , 12, 1721-1735	2
468	A multi-label cascaded neural network classification algorithm for automatic training and evolution of deep cascaded architecture. 2021 , 38, e12671	
467	Tackling Noise in Active Semi-supervised Clustering. 2021 , 121-136	
466	Enhanced Differential Crossover and Quantum Particle Swarm Optimization for IoT Applications. 2021 , 9, 93831-93846	14

465	Tax Default Prediction Using Feature Transformation-Based Machine Learning. 2021 , 9, 19864-19881	13
464	Building Market Timing Strategies Using Trend Representative Testing and Computational Intelligence Metaheuristics. 2021 , 29-54	
463	Population-Based Iterated Local Search Approach for Dynamic Vehicle Routing Problems. 2021 , 1-11	3
462	IFC-BD: An Interpretable Fuzzy Classifier for Boosting Explainable Artificial Intelligence in Big Data. 2021 , 1-1	8
461	Employing machine learning techniques to assess requirement change volatility. 2021 , 32, 245-269	2
460	Solving engineering optimization problems using an improved real-coded genetic algorithm (IRGA) with directional mutation and crossover. 2021 , 25, 5455-5481	3
459	Reaching consensus under a deadline. 2021 , 35, 1	2
458	Social Network Search for Global Optimization. 2021 , 9, 92815-92863	17
457	Improved Salp Swarm Algorithm with mutation schemes for solving global optimization and engineering problems. 1	14
456	A bioinformatic variant fruit fly optimizer for tackling optimization problems. 2021 , 213, 106704	15
455	Ensemble learning for intrusion detection systems: A systematic mapping study and cross-benchmark evaluation. 2021 , 39, 100357	16
454	Deep Fuzzy System Algorithms Based on Deep Learning and Input Sharing for Regression Application. 2021 , 23, 727-742	2
453	Real-time and effective pan-sharpening for remote sensing using multi-scale fusion network. 2021 , 18, 1635-1651	4
452	An Adaptive Scaling Cuckoo Search Algorithm. 2021 ,	
451	Handling nonconforming individuals in search-based model-driven engineering: nine generic strategies for feature location in the modeling space of the meta-object facility. 2021 , 20, 1653	2
450	Reliable genomic strategies for species classification of plant genetic resources. 2021 , 22, 173	0
449	A reliable ensemble based approach to semi-supervised learning. 2021 , 215, 106738	2
448	A modified self-adaptive marine predators algorithm: framework and engineering applications. 1	9

447	An automatic sampling ratio detection method based on genetic algorithm for imbalanced data classification. 2021 , 216, 106800	5
446	A decision-analytic framework for interpretable recommendation systems with multiple input data sources: a case study for a European e-tailer. 1	2
445	Ensemble-based model selection for imbalanced data to investigate the contributing factors to multiple fatality road crashes in Ghana. 2021 , 151, 105851	2
444	An integrated cuckoo search optimizer for single and multi-objective optimization problems. 2021 , 7, e370	0
443	Optimal Selection of Features Using Artificial Electric Field Algorithm for Classification. 2021 , 46, 8355-8369	4
442	A new correlation-based approach for ensemble selection in random forests. 2021 , 14, 251-268	1
441	R-HEFS: Rough set based heterogeneous ensemble feature selection method for medical data classification. 2021 , 114, 102049	5
440	LSTM-MSNet: Leveraging Forecasts on Sets of Related Time Series With Multiple Seasonal Patterns. 2021 , 32, 1586-1599	21
439	Context-Based Evaluation of Dimensionality Reduction Algorithms Experiments and Statistical Significance Analysis. 2021 , 15, 1-40	1
438	Predictive modeling in a steelmaking process using optimized relevance vector regression and support vector regression. 1	1
437	An improved atom search optimization with dynamic opposite learning and heterogeneous comprehensive learning. 2021 , 103, 107140	2
436	Higher order ANN parameter optimization using hybrid opposition-elitism based metaheuristic. 1	
435	Differentiating the learning styles of college students in different disciplines in a college English blended learning setting. 2021 , 16, e0251545	4
434	Frequencies Wave Sound Particle Swarm Optimisation (FPSO). 1-32	
433	Improved Hybrid Bag-Boost Ensemble With K-Means-SMOTEENN Technique for Handling Noisy Class Imbalanced Data.	3
432	A modified equilibrium optimizer using opposition-based learning and novel update rules. 2021 , 170, 114575	14
431	Assessing BERT's ability to learn Italian syntax: a study on null-subject and agreement phenomena. 1	8
430	A reinforcement learning based multi-method approach for stochastic resource constrained project scheduling problems. 2021 , 169, 114479	10

429	Feature Transformation for Corporate Tax Default Prediction: Application of Machine Learning Approaches. 2140017		2
428	A Graph Coloring Based Framework for Views Construction in Multi-View Ensemble Learning. 2021,		1
427	Parallel Evolutionary Algorithm for EEG Optimization Problems. 2021,		0
426	Energy Idle Aware Stochastic Lexicographic Local Searches for Precedence-Constraint Task List Scheduling on Heterogeneous Systems. 2021, 14, 3473		0
425	Comparing quantile regression methods for probabilistic forecasting of NO pollution levels. 2021, 11, 11592		1
424	A cluster-based intelligence ensemble learning method for classification problems. <i>Information Sciences</i> , 2021, 560, 386-409	7-7	12
423	Memetic Harris Hawks Optimization: Developments and perspectives on project scheduling and QoS-aware web service composition. 2021, 171, 114529		18
422	Bonobo optimizer (BO): an intelligent heuristic with self-adjusting parameters over continuous spaces and its applications to engineering problems. 1		2
421	Multi-Layer Selector(MLS): Dynamic selection based on filtering some competence measures. 2021, 104, 107257		1
420	A review on weight initialization strategies for neural networks. 1		7
419	Fuzzy k-nearest neighbors with monotonicity constraints: Moving towards the robustness of monotonic noise. 2021, 439, 106-121		6
418	Pinball loss-based multi-task twin support vector machine and its safe acceleration method. 2021, 33, 15523		2
417	How to design the fair experimental classifier evaluation. 2021, 104, 107219		15
416	A wrapper methodology to learn interval-valued fuzzy rule-based classification systems. 2021, 104, 107249		10
415	Enhancing extended belief rule-based systems for classification problems using decomposition strategy and overlap function. 1		0
414	An improved gaining-sharing knowledge algorithm for parameter extraction of photovoltaic models. 2021, 237, 114030		18
413	An improved optimization model to predict the microhardness of Ni/Al ₂ O ₃ nanocomposite coatings prepared by electrodeposition: A hybrid artificial neural network-modified particle swarm optimization approach. 2021, 179, 109423		7
412	A new differential evolution algorithm for cooperative fuzzy rule mining: application to anomaly detection. 1		

411	A new non-kernel quadratic surface approach for imbalanced data classification in online credit scoring. <i>Information Sciences</i> , 2021 , 563, 150-165	7.7	3
410	Discrete Jaya with refraction learning and three mutation methods for the permutation flow shop scheduling problem. 1		9
409	Full Model Selection Problem and Pipelines for Time-Series Databases: Contrasting Population-Based and Single-point Search Metaheuristics. 2021 , 41, e79308		
408	Forecasting Loan Default in Europe with Machine Learning.		0
407	An optimization approach with weighted SCiForest and weighted Hausdorff distance for noise data and redundant data. 1		
406	Metaheuristics for the Minimum Gap Graph Partitioning Problem. 2021 , 132, 105301		4
405	Unsupervised Feature Selection Based on Spectral Clustering with Maximum Relevancy and Minimum Redundancy Approach. 2021 , 35, 2150031		1
404	Manta ray foraging and Gaussian mutation-based elephant herding optimization for global optimization. 1		1
403	A conservative approach for online credit scoring. 2021 , 176, 114835		10
402	Facial micro-expression recognition based on accordion spatio-temporal representation and random forests. 2021 , 79, 103183		0
401	Polygonal Coordinate System: Visualizing high-dimensional data using geometric DR, and a deterministic version of t-SNE. 2021 , 175, 114741		2
400	An improved Henry gas solubility optimization for optimization tasks. 1		1
399	Enhancing software model encoding for feature location approaches based on machine learning techniques. 1		
398	Adaptive Self-Scaling Brain-Storm Optimization via a Chaotic Search Mechanism. 2021 , 14, 239		0
397	Improved Salp Swarm Optimization Algorithm: Application in Feature Weighting for Blind Modulation Identification. 2021 , 10, 2002		4
396	A new hybrid algorithm for path planning of mobile robot. 1		5
395	Early Warning of Gas Concentration in Coal Mines Production Based on Probability Density Machine. 2021 , 21,		1
394	Can music enhance awareness in unresponsive people with severe dementia? An exploratory case series using behavioral, physiological and neurophysiological measures. 2021 , 1-12		0

393	Spiral Motion Enhanced Elite Whale Optimizer for Global Tasks. 2021 , 2021, 1-33		0
392	Semi-supervised associative classification using ant colony optimization algorithm. 2021 , 7, e676		1
391	Towards Precision Fertilization: Multi-Strategy Grey Wolf Optimizer Based Model Evaluation and Yield Estimation. 2021 , 10, 2183		1
390	Emerging Swarm Intelligence Algorithms and Their Applications in Antenna Design: The GWO, WOA, and SSA Optimizers. 2021 , 11, 8330		5
389	Differential search algorithm for biojective feature selection. 2021 , 2031, 012064		
388	Performance optimization of differential evolution with slime mould algorithm for multilevel breast cancer image segmentation. 2021 , 138, 104910		18
387	FitnessDistance Balance based adaptive guided differential evolution algorithm for security-constrained optimal power flow problem incorporating renewable energy sources. 2021 , 108, 107421		17
386	Probability Density Machine: A New Solution of Class Imbalance Learning. 2021 , 2021, 1-14		
385	Tourist group itinerary design: When the firefly algorithm meets the n-person Battle of Sexes. 2021 , 228, 107257		2
384	Discrete IV d-Choquet integrals with respect to admissible orders. 2021 ,		0
383	Multiple imputation using nearest neighbor methods. <i>Information Sciences</i> , 2021 , 570, 500-516	7-7	7
382	Evaluation of constraint in photovoltaic cells using ensemble multi-strategy shuffled frog leading algorithms. 2021 , 244, 114484		14
381	CoV2-Detect-Net: Design of COVID-19 prediction model based on hybrid DE-PSO with SVM using chest X-ray images. <i>Information Sciences</i> , 2021 , 571, 676-692	7-7	9
380	Efficient repairs of infeasible job shop problems by evolutionary algorithms. 2021 , 104, 104368		2
379	Business Anomaly Detection Method of Power Dispatching Automation System Based on Clustering Under-Sampling in the Boundary Region. 2021 , 2025, 012026		
378	Ant colony optimization with Cauchy and greedy Levy mutations for multilevel COVID 19 X-ray image segmentation. 2021 , 136, 104609		17
377	Hunger games search: Visions, conception, implementation, deep analysis, perspectives, and towards performance shifts. 2021 , 177, 114864		203
376	A hybrid ensemble-filter wrapper feature selection approach for medical data classification. 2021 , 217, 104396		5

375	Dual-manifold regularized regression models for feature selection based on hesitant fuzzy correlation. 2021 , 229, 107308	10
374	Firefly Algorithm based on Euclidean Metric and Dimensional Mutation. 2021 , 15, 0-0	1
373	Novel ensemble of optimized CNN and dynamic selection techniques for accurate Covid-19 screening using chest CT images. 2021 , 137, 104835	7
372	Dealing with multi-modality using synthesis of Moth-flame optimizer with sine cosine mechanisms. 2021 , 188, 291-318	13
371	A scalability study of the multi-guide particle swarm optimization algorithm to many-objectives. 2021 , 66, 100943	4
370	Forecasting loss given default for peer-to-peer loans via heterogeneous stacking ensemble approach. 2021 , 37, 1590-1613	1
369	Performance analysis of dynamic optimization algorithms using relative error distance. 2021 , 66, 100930	1
368	Delayed dynamic step shuffling frog-leaping algorithm for optimal design of photovoltaic models. 2021 , 7, 228-246	15
367	Deep learning for credit scoring: Do or don't. 2021 , 295, 292-305	15
366	Hybrid genetic model for clustering ensemble. 2021 , 231, 107457	1
365	Coarse-fine surrogate model driven multiobjective evolutionary fuzzy clustering algorithm with dual memberships for noisy image segmentation. 2021 , 112, 107778	1
364	Learning interpretable multi-class models by means of hierarchical decomposition: Threshold Control for Nested Dichotomies. 2021 , 463, 514-524	
363	Reinforced knowledge distillation: Multi-class imbalanced classifier based on policy gradient reinforcement learning. 2021 , 463, 422-436	1
362	OCEAn: Ordinal classification with an ensemble approach. <i>Information Sciences</i> , 2021 , 580, 221-242	7.7 1
361	Artificial bee colony algorithm based on multiple neighborhood topologies. 2021 , 111, 107697	5
360	A rough margin-based multi-task Lwin support vector machine for pattern classification. 2021 , 112, 107769	4
359	Spline-rule ensemble classifiers with structured sparsity regularization for interpretable customer churn modeling. 2021 , 150, 113523	5
358	Robust cost-sensitive kernel method with Blinex loss and its applications in credit risk evaluation. 2021 , 143, 327-344	1

357	An hybrid particle swarm optimization with crow search algorithm for feature selection. 2021 , 6, 100108	5
356	Topic modeling for feature location in software models: Studying both code generation and interpreted models. 2021 , 140, 106676	2
355	Interval-valued fuzzy and intuitionistic fuzzy KNN for imbalanced data classification. 2021 , 184, 115510	6
354	Improving the accuracy of global forecasting models using time series data augmentation. 2021 , 120, 108148	13
353	A prescription of methodological guidelines for comparing bio-inspired optimization algorithms. 2021 , 67, 100973	16
352	A supervised multi-view feature selection method based on locally sparse regularization and block computing. <i>Information Sciences</i> , 2022 , 582, 146-166	7-7 3
351	Selection of Constituent Algorithms. 2021 , 23-29	
350	Variable Mesh Optimization for Continuous Optimization and Multimodal Problems. 2021 , 301-317	
349	Sentence-Level Aspect-Based Sentiment Analysis for Classifying Adverse Drug Reactions (ADRs) Using Hybrid Ontology-XLNet Transfer Learning. 2021 , 9, 90828-90846	9
348	Toward the Energy-Saving Optimization of WLAN Deployment in Real 3-D Environment: A Hybrid Swarm Intelligent Method. 2021 , 1-12	8
347	Accessible Visualization via Natural Language Descriptions: A Four-Level Model of Semantic Content. 2021 , PP,	4
346	COBRAS: Interactive Clustering with Pairwise Queries. 2018 , 353-366	2
345	A Proposal to Estimate the Variable Importance Measures in Predictive Models Using Results from a Wrapper. 2018 , 369-383	2
344	Brain Storm Algorithm Combined with Covariance Matrix Adaptation Evolution Strategy for Optimization. 2019 , 123-154	3
343	A Genetic-Based Ensemble Learning Applied to Imbalanced Data Classification. 2019 , 340-352	4
342	Data Preprocessing for des-knn and Its Application to Imbalanced Medical Data Classification. 2020 , 589-599	2
341	Statistical Evaluation of Metaheuristic Algorithm: An Optimum Reinforced Concrete T-beam Problem. 2021 , 299-310	4
340	Genetic Algorithm for the Job-Shop Scheduling with Skilled Operators. 2015 , 41-50	1

339	Self-Train LogitBoost for Semi-supervised Learning. 2015 , 139-148	1
338	Cost-Sensitive Neural Network with ROC-Based Moving Threshold for Imbalanced Classification. 2015 , 45-52	13
337	Evaluating and Comparing Classifiers: Review, Some Recommendations and Limitations. 2018 , 12-21	7
336	Electric Vehicle Charging Scheduling Using an Artificial Bee Colony Algorithm. 2017 , 115-124	2
335	Multiple Chaotic Cuckoo Search Algorithm. 2017 , 531-542	3
334	Vessels Fuel Consumption: A Data Analytics Perspective to Sustainability. 2018 , 11-48	6
333	Evolving Artificial Neural Networks for Multi-objective Tasks. 2018 , 671-686	9
332	A Study of Different Families of Fusion Functions for Combining Classifiers in the One-vs-One Strategy. 2018 , 427-440	1
331	Empirical Comparison of Bagging Ensembles Created Using Weak Learners for a Regression Problem. 2011 , 312-322	6
330	Enhancing IPADE Algorithm with a Different Individual Codification. 2011 , 262-270	4
329	Feature Selection in Regression Tasks Using Conditional Mutual Information. 2011 , 224-231	3
328	Hybrid Artificial Intelligence Approaches on Vehicle Routing Problem in Logistics Distribution. 2012 , 208-220	10
327	On How Percolation Threshold Affects PSO Performance. 2012 , 509-520	2
326	Reasoning with Qualitative Velocity: Towards a Hybrid Approach. 2012 , 635-646	4
325	Research of Neural Network Classifier Based on FCM and PSO for Breast Cancer Classification. 2012 , 647-654	7
324	Unsupervised Classification of Audio Signals by Self-Organizing Maps and Bayesian Labeling. 2012 , 61-70	3
323	Improving SMOTE with Fuzzy Rough Prototype Selection to Detect Noise in Imbalanced Classification Data. 2012 , 169-178	8
322	Instance Selection Methods and Resampling Techniques for Dissimilarity Representation with Imbalanced Data Sets. 2013 , 149-160	1

321	Discovering Subgroups by Means of Genetic Programming. 2013 , 121-132	5
320	Random Oracle Ensembles for Imbalanced Data. 2013 , 247-258	1
319	Applying Resampling Methods for Imbalanced Datasets to Not So Imbalanced Datasets. 2013 , 111-120	4
318	Probabilistic Clustering for Hierarchical Multi-Label Classification of Protein Functions. 2013 , 385-400	5
317	CMF: A Combinatorial Tool to Find Composite Motifs. 2013 , 196-208	1
316	Salp Swarm Algorithm (SSA) for Training Feed-Forward Neural Networks. 2019 , 521-534	18
315	Fake consumer review detection using deep neural networks integrating word embeddings and emotion mining. 2020 , 32, 17259-17274	35
314	Orthogonal learning harmonizing mutation-based fruit fly-inspired optimizers. 2020 , 86, 368-383	11
313	Scalable auto-encoders for gravitational waves detection from time series data. 2020 , 151, 113378	23
312	Exploratory differential ant lion-based optimization. 2020 , 159, 113548	14
311	A Jaya algorithm based wrapper method for optimal feature selection in supervised classification. 2020 ,	14
310	A firefly algorithm for the environmental prize-collecting vehicle routing problem. 2020 , 57, 100712	21
309	Learning-to-rank vs ranking-to-learn. 2020 ,	9
308	Performance2vec. 2020 ,	1
307	Interruptibility for In-vehicle Multitasking. 2020 , 4, 1-22	6
306	The impact of audit committee on real earnings management: Evidence from Netherlands. 2020 , 4, 33-46	5
305	Efficient Decision Trees for Multi-Class Support Vector Machines Using Entropy and Generalization Error Estimation. 2018 , 28, 705-717	3
304	Revisiting the Optimal Probability Estimator from Small Samples for Data Mining. 2019 , 29, 783-796	1

303	A Hybrid Model of FLANN and Firefly Algorithm for Classification. 2016 , 491-522	4
302	Prioritizing bona fide bacterial small RNAs with machine learning classifiers. 2019 , 7, e6304	4
301	Visual complexity modelling based on image features fusion of multiple kernels. 2019 , 7, e7075	8
300	Nonparametric Tests for Comparing Forecasting Models. 2021 , 213-229	
299	Imbalanced Classification Problems: A Comparative Study of Non-ensemble and Ensemble-Based Approaches. 2021 , 469-484	
298	Cross-modal semantic autoencoder with embedding consensus. 2021 , 11, 20319	
297	Linearly decreasing inertia weight PSO and improved weight factor-based clustering algorithm for wireless sensor networks. 1	1
296	SPMS-ALS: A Single-Point Memetic structure with accelerated local search for instance reduction. 2021 , 100991	1
295	Predictive performance of presence-only species distribution models: a benchmark study with reproducible code. e01486	17
294	Gaussian Barebone Salp Swarm Algorithm with Stochastic Fractal Search for medical image segmentation: A COVID-19 case study. 2021 , 139, 104941	11
293	Deep Ensemble of Slime Mold Algorithm and Arithmetic Optimization Algorithm for Global Optimization. 2021 , 9, 1774	22
292	Extending the Applicability of the MeyerPeter and Müller Bed Load Transport Formula. 2021 , 13, 2817	0
291	A two-layer nested heterogeneous ensemble learning predictive method for COVID-19 mortality. 2021 , 113, 107946	1
290	On the Homogenization of Data from Two Laboratories Using Genetic Programming. 2010 , 185-197	
289	On the Usefulness of Fuzzy Rule Based Systems Based on Hierarchical Linguistic Fuzzy Partitions. 2011 , 155-184	
288	Supervision Strategy of a Solar Volumetric Receiver Using NN and Rule Based Techniques. 2012 , 577-587	
287	Real-World Problem for Checking the Sensitiveness of Evolutionary Algorithms to the Choice of the Random Number Generator. 2012 , 385-396	1
286	A Predictive Evolutionary Algorithm for Dynamic Constrained Inverse Kinematics Problems. 2012 , 610-621	1

285 PATMAP: Polyadenylation Site Identification from Next-Generation Sequencing Data. **2012**, 485-496

284 Optimization of Neuro-Coefficient Smooth Transition Autoregressive Models Using Differential Evolution. **2012**, 464-473

283 NARGES: Prediction Model for Informed Routing in a Communications Network. **2013**, 327-338

282 Viscosity Measurement Monitoring by Means of Functional Approximation and Rule Based Techniques. **2013**, 427-438

281 Augmented Semi-naive Bayes Classifier. **2013**, 159-167

280 Impact of the Topology on the Performance of Distributed Differential Evolution. **2014**, 75-85

279 Data Sets and Proper Statistical Analysis of Data Mining Techniques. **2015**, 19-38 1

278 A Data Mining Software Package Including Data Preparation and Reduction: KEEL. **2015**, 285-313 2

277 CTCHAID: Extending the Application of the Consolidation Methodology. **2015**, 572-577 1

276 Pruning Ensembles of One-Class Classifiers with X-means Clustering. **2015**, 484-493

275 Term Network Approach for Transductive Classification. **2015**, 497-515 0

274 Managing Monotonicity in Classification by a Pruned Random Forest. **2015**, 53-60 1

273 CO(^2)RBFN-CS: First Approach Introducing Cost-Sensitivity in the Cooperative-Competitive RBFN Design. **2015**, 361-373

272 Pruning Ensembles with Cost Constraints. **2015**, 503-512

271 Managing Monotonicity in Classification by a Pruned AdaBoost. **2016**, 512-523 2

270 Interval Type-2 Fuzzy Systems: Design Methods and Applications. **2017**, 529-616

269 On a New Method for Improving Weak Classifiers Using Bayes Metaclassifier. **2018**, 258-267

268 Improvement of subgroup descriptions in noisy data by detecting exceptions. **2018**, 7, 55-64

- 267 An Optimized Semi-Supervised Learning Approach for High Dimensional Datasets. **2018**, 294-321
- 266 Diatom Ecological Modelling with Weighted Pattern Tree Algorithm by Using Polygonal and Gaussian Membership Functions. **2019**, 83-95
- 265 A New Approach to Improve Learning in Fuzzy Cognitive Maps Using Reinforcement Learning. **2019**, 226-234
- 264 Machine Learning in Biomedical Informatics. **2019**, 389-399
- 263 A multiobjective optimization approach for market timing. **2020**, 1
- 262 A Proposal for a Cooperative Cross-Entropy Method to tackle the Unit Commitment Problem. **2021**, 107764 1
- 261 Cooperative coevolutionary algorithm with resource allocation strategies to minimize unnecessary computations. **2021**, 113, 108013
- 260 Bacterial exposure leads to variable mortality but not a measurable increase in surface antimicrobials across ant species. **2020**, 8, e10412
- 259 Does Feedback really work? The Efficacy of teacher and peer written feedback in enhancing pharmacy students' presentation skills in University of Bahrain-an action research. **2020**,
- 258 A Novel Initial Population Construction Heuristic for the DINOS Subgroup Discovery Algorithm. **2021**, 270-279
- 257 . **2021**, 1-1 1
- 256 Bug Localization in Model-Based Systems in the Wild. **2022**, 31, 1-32 1
- 255 Improving Dendritic Neuron Model With Dynamic Scale-Free Network-Based Differential Evolution. **2022**, 9, 99-110 10
- 254 Learning From Class Imbalance. **2020**, 109-129
- 253 A Method to Generate Soft Reference Data for Topic Identification. **2020**, 54-67
- 252 Forecasting Loan Default in Europe with Machine Learning. 1
- 251 Enhancing the Efficiency of the Interval-Valued Fuzzy Rule-Based Classifier with Tuning and Rule Selection. **2020**, 463-478
- 250 The Elliptical Basis Function Data Descriptor (EBFDD) Network: A One-Class Classification Approach to Anomaly Detection. **2020**, 107-123

249	Real-Time Outlier Detection in Time Series Data of Water Sensors. 2020 , 155-170		0
248	Evaluating Automated Machine Learning on Supervised Regression Traffic Forecasting Problems. 2020 , 187-204		3
247	Software Defect Prediction on Unlabelled Datasets: A Comparative Study. 2020 , 333-353		
246	Unsupervised Learning and Feature Extraction in Hyperspectral Imagery. 2020 , 792-806		0
245	Performance optimization of salp swarm algorithm for multi-threshold image segmentation: Comprehensive study of breast cancer microscopy. 2021 , 139, 105015		10
244	Neighborhood linear discriminant analysis. 2021 , 123, 108422		24
243	Improved Whale optimization Algorithm for SVM Model Selection: Application in Medical Diagnosis. 2020 ,		5
242	Evaluation of diatoms biodiversity models by applying different discretization on the class attribute. 2020 ,		1
241	PCTBagging: From inner ensembles to ensembles. A trade-off between discriminating capacity and interpretability. <i>Information Sciences</i> , 2022 , 583, 219-238	7.7	1
240	An effective model for predicting serum albumin level in hemodialysis patients. 2021 , 140, 105054		3
239	An improved arithmetic optimization algorithm with forced switching mechanism for global optimization problems.. 2022 , 19, 473-512		10
238	Opinion mining for app reviews: an analysis of textual representation and predictive models. 2022 , 29, 1		1
237	A Modified Slime Mould Algorithm for Global Optimization.. 2021 , 2021, 2298215		6
236	Global models for time series forecasting: A Simulation study. 2021 , 124, 108441		4
235	Time series prediction based on high-order intuitionistic fuzzy cognitive maps with variational mode decomposition. 1		1
234	Dispersed foraging slime mould algorithm: Continuous and binary variants for global optimization and wrapper-based feature selection. 2021 , 237, 107761		14
233	Leveraging BPMN particularities to improve traceability links recovery among requirements and BPMN models. 1		
232	A Visual Mining Approach to Improved Multiple- Instance Learning. 2021 , 14, 344		

231	DRCW-FRkNN-OVO: distance-based related competence weighting based on fixed radius k nearest neighbour for one-vs-one scheme. 1	0
230	Fuzzy Cognitive Map-Driven Comprehensive Time-Series Classification.. 2021, PP,	0
229	Improving a Genetic Clustering Approach with a CVI-Based Objective Function. 2021, 202-217	
228	Multi-Population Enhanced Slime Mould Algorithm and with Application to Postgraduate Employment Stability Prediction. 2022, 11, 209	3
227	A Generative Deep Learning Framework Across Time Series to Optimize the Energy Consumption of Air Conditioning Systems. 2022, 1-1	1
226	Horizontal and vertical search artificial bee colony for image segmentation of COVID-19 X-ray images.. 2022, 142, 105181	10
225	Multi-local Collaborative AutoEncoder. 2022, 239, 107844	0
224	A Bi-directional Fuzzy C-Means Clustering Ensemble Algorithm Considering Local Information. 2021, 14,	0
223	Gradient-based elephant herding optimization for cluster analysis.. 2022, 1-32	2
222	Neighborhood search based improved bat algorithm for data clustering. 1	1
221	Nearest neighbor imputation for categorical data by weighting of attributes. <i>Information Sciences</i> , 2022, 592, 306-319	7.7 1
220	An Improved Gorilla Troops Optimizer Based on Lens Opposition-Based Learning and Adaptive Hill Climbing for Global Optimization. 2022, 130, 1-36	3
219	Combining a Hybrid Prediction Strategy and a Mutation Strategy for Dynamic Multiobjective Optimization. 2022, 70, 101041	0
218	Drone-Base-Station for Next-Generation Internet-of-Things: A Comparison of Swarm Intelligence Approaches. 2022, 3, 32-47	6
217	OUP accepted manuscript.	2
216	Combining weighted SMOTE with ensemble learning for the class-imbalanced prediction of small business credit risk. 1	7
215	A Novel Twin Support Vector Machine with Generalized Pinball Loss Function for Pattern Classification. 2022, 14, 289	0
214	A New Exploitation Scheme in the Context of Bipolar Classifiers. 2022, 1-9	

213	Sensory evaluation and prediction of bulk wine by physicochemical indicators based on PCA-PSO-LSSVM method.		
212	Improved multi-core arithmetic optimization algorithm-based ensemble mutation for multidisciplinary applications. 1		5
211	An efficient multilevel thresholding image segmentation method based on the slime mould algorithm with bee foraging mechanism: A real case with lupus nephritis images.. 2021 , 142, 105179		5
210	An integrated surrogate model constructing method: Annealing combinable Gaussian process. <i>Information Sciences</i> , 2022 , 591, 176-194	7.7	0
209	Q-learning embedded sine cosine algorithm (QLESCA). 2022 , 193, 116417		1
208	Empirical analyses of genetic algorithm and grey wolf optimiser to improve their efficiency with a new multi-objective weighted fitness function for feature selection in machine learning classification: the roadmap. 1-36		
207	Multi-Threshold Image Segmentation of Maize Diseases Based on Elite Comprehensive Particle Swarm Optimization and Otsu.. 2021 , 12, 789911		2
206	An improved remora optimization algorithm with autonomous foraging mechanism for global optimization problems.. 2022 , 19, 3994-4037		4
205	Progressive Meta-learning with Curriculum. 2022 , 1-1		2
204	Multi-strategy improved salp swarm algorithm and its application in reliability optimization.. 2022 , 19, 5269-5292		1
203	Long-Short Ensemble Network for Bipolar Manic-Euthymic State Recognition Based on Wrist-Worn Sensors. 2022 , 1-12		1
202	Cooperative multi-population Harris Hawks optimization for many-objective optimization. 1		0
201	Proposing a novel deep network for detecting COVID-19 based on chest images.. 2022 , 12, 3116		0
200	Self-adaptive DE algorithm without niching parameters for multi-modal optimization problems. 1		0
199	Optimal sensor placement in large-scale dome trusses via Q-learning-based water strider algorithm.		0
198	An accurate and fully-automated ensemble model for weekly time series forecasting. 2022 ,		0
197	An Improved Tunicate Swarm Algorithm with Best-random Mutation Strategy for Global Optimization Problems. 1		3
196	Correlation-based feature partition regression method for unsupervised anomaly detection. 1		0

- 195 Gaussian kernel probability-driven slime mould algorithm with new movement mechanism for multi-level image segmentation. **2022**, 192, 110884 1
- 194 Enhanced Parallel Sine Cosine Algorithm for Constrained and Unconstrained Optimization. **2022**, 10, 1166
- 193 An External Selection Mechanism for Differential Evolution Algorithm.. **2022**, 2022, 4544818
- 192 β -Kernel-free soft quadratic surface support vector regression. *Information Sciences*, **2022**, 594, 177-199 7.7 0
- 191 SMOTE-RkNN: A hybrid re-sampling method based on SMOTE and reverse k-nearest neighbors. *Information Sciences*, **2022**, 595, 70-88 7.7 0
- 190 Weighted Ensemble with one-class Classification and Over-sampling and Instance selection (WECOI): An approach for learning from imbalanced data streams. **2022**, 61, 101614 1
- 189 Leveraging execution traces to enhance traceability links recovery in BPMN models. **2022**, 146, 106873
- 188 A novel multi-task twin-hypersphere support vector machine for classification. *Information Sciences*, **2022**, 598, 37-56 7.7 0
- 187 Broad learning approach to Surrogate-Assisted Multi-Objective evolutionary fuzzy clustering algorithm based on reference points for color image segmentation. **2022**, 200, 117015 0
- 186 Retargeted multi-view classification via structured sparse learning. **2022**, 197, 108538 0
- 185 A comprehensive investigation into the performance of genetic algorithm for effective shipyard topological layout. 147509022110620
- 184 Air Quality Estimation Using Dendritic Neural Regression with Scale-Free Network-Based Differential Evolution. **2021**, 12, 1647
- 183 Empirical Study of Predicting Critical Temperature of a Superconductor Using Regression Techniques. **2022**, 395-405
- 182 A Bibliometric Analysis and Benchmark of Machine Learning and AutoML in Crash Severity Prediction: The Case Study of Three Colombian Cities.. **2021**, 21, 2 2
- 181 Educational Data Mining Techniques for Student Performance Prediction: Method Review and Comparison Analysis.. **2021**, 12, 698490 2
- 180 Harris Hawks Optimization with Multi-Strategy Search and Application. **2021**, 13, 2364 1
- 179 Dynamic order Markov model for categorical sequence clustering.. **2021**, 8, 154 0
- 178 Chaotic Enhanced Genetic Algorithm for Solving the Nonlinear System of Equations.. **2022**, 2022, 1376479 1

177	Combining convolutional neural networks with SVM classifier for recognizing Persian and Arabic handwritten words. 1	0
176	An Improved Wild Horse Optimizer for Solving Optimization Problems. 2022 , 10, 1311	8
175	A novel XGBoost extension for credit scoring class-imbalanced data combining a generalized extreme value link and a modified focal loss function. 2022 , 117233	2
174	Deep instance envelope network-based imbalance learning algorithm with multilayer fuzzy C-means clustering and minimum interlayer discrepancy. 2022 , 108846	
173	An optimized machine learning framework for predicting intradialytic hypotension using indexes of chronic kidney disease-mineral and bone disorders.. 2022 , 145, 105510	0
172	Can machine learning improve small area population forecasts? A forecast combination approach. 2022 , 95, 101806	2
171	Toward energy efficient and balanced user associations and power allocations in multi-connectivity enabled mmWave networks. 2022 , 1-1	5
170	OUP accepted manuscript.	3
169	Pride: Prioritizing Documentation Effort Based on a PageRank-Like Algorithm and Simple Filtering Rules. 2022 , 1-1	1
168	A Comparative Analysis of Data Standardization Methods on Stock Movement. 2022 , 401-417	
167	Deep Detection Models for Measuring Epidermal Bladder Cells. 2022 , 131-142	
166	Fuzzy C-Means Clustering based Deep Patch Learning with Improved Interpretability for Classification Problems. 2022 , 1-1	0
165	Chaotic Fruit Fly Algorithm for Solving Engineering Design Problems. 2022 , 2022, 1-19	0
164	Improved Deep Convolutional Neural Networks via Boosting for Predicting the Quality of In Vitro Bovine Embryos. 2022 , 11, 1363	1
163	CoreBug: Improving Effort-Aware Bug Prediction in Software Systems Using Generalized k-Core Decomposition in Class Dependency Networks. 2022 , 11, 205	2
162	T-Friedman Test: A New Statistical Test for Multiple Comparison with an Adjustable Conservativeness Measure. 2022 , 15,	0
161	Ramp loss KNN-weighted multi-class twin support vector machine. 1	0
160	An enhanced honey badger algorithm based on Levy flight and refraction opposition-based learning for engineering design problems. 2022 , 1-24	1

159	Enhancing Firefly Algorithm with Dual-Population Topology Coevolution. 2022 , 10, 1564	2
158	Diagnostic classification of Parkinson's disease based on non-motor manifestations and machine learning strategies. 1	0
157	Instance weighted SMOTE by indirectly exploring the data distribution. 2022 , 108919	0
156	Self-adaptive opposition-based differential evolution with subpopulation strategy for numerical and engineering optimization problems. 1	1
155	A shadowed set-based three-way clustering ensemble approach. 1	0
154	Performance analysis of fingerprinting indoor positioning methods with BLE. 2022 , 202, 117095	4
153	An ensemble contrastive classification framework for imbalanced learning with sample-neighbors pair construction. 2022 , 109007	
152	Semi-supervised adapted HMMs for P2P credit scoring systems with reject inference. 1	
151	A Data-Driven Framework for Probabilistic Estimates in Oil and Gas Project Cost Management: A Benchmark Experiment on Natural Gas Pipeline Projects. 2022 , 10, 75	0
150	Multilevel threshold image segmentation for COVID-19 chest radiography: A framework using horizontal and vertical multiverse optimization. 2022 , 105618	2
149	Multi-task twin spheres support vector machine with maximum margin for imbalanced data classification.	
148	Ensembling Residual Networks for Multi-Label Sound Event Recognition with Weak Labeling. 2022 ,	0
147	A Level-based Multi-strategy Learning Swarm Optimizer for Large-Scale Multi-objective Optimization. 2022 , 101100	1
146	Mean Teacher for Weakly Supervised Polyphonic Sound Event Detection: An Empirical Study. 2022 ,	0
145	A Comprehensive Performance Analysis of Meta-Heuristic Optimization Techniques for Effective Organic Rankine Cycle Design. 2022 , 118687	
144	AD-CovNet: An exploratory analysis using a hybrid deep learning model to handle data imbalance, predict fatality, and risk factors in Alzheimer's patients with COVID-19. 2022 , 105657	1
143	Multiple Treatment Modeling for Target Marketing Campaigns: A Large-Scale Benchmark Study.	
142	An application of real coded Self-organizing Migrating Genetic Algorithm on a two-warehouse inventory problem with Type-2 interval valued inventory costs via mean bounds optimization technique. 2022 , 109085	1

141	Multi-granularity relabeled under-sampling algorithm for imbalanced data. 2022 , 109083	1
140	Markov clustering ensemble. 2022 , 109196	0
139	Support matrix machine with pinball loss for classification.	0
138	Boosted machine learning model for predicting intradialytic hypotension using serum biomarkers of nutrition. 2022 , 105752	0
137	Semi-supervised deep learning and low-cost cameras for the semantic segmentation of natural images in viticulture.	1
136	Efficient density and cluster based incremental outlier detection in data streams. <i>Information Sciences</i> , 2022 , 607, 901-920	7.7 0
135	The Deep Radial Basis Function Data Descriptor (D-RBFDD) Network: A One-Class Neural Network for Anomaly Detection. 2022 , 10, 70645-70661	1
134	Implication of Hamacher T-norm on Two Fuzzy- Rough Rule Induction Algorithms. 2022 ,	0
133	Automatic detection of the mental state in responses towards relaxation.	0
132	Directional mutation and crossover boosted ant colony optimization with application to COVID-19 X-ray image segmentation. 2022 , 105810	3
131	A score-based preprocessing technique for class imbalance problems.	0
130	Gaussian gravitation for cluster ensembles. 2022 , 109444	
129	Machine learning-based time series models for effective CO2 emission prediction in India.	1
128	Rao algorithm based optimal Multi-term FOPID controller for automatic voltage regulator system.	0
127	Cross Entropy Covariance Matrix Adaptation Evolution Strategy for Solving the Bi-Level Bidding Optimization Problem in Local Energy Markets. 2022 , 15, 4838	0
126	Deep learning meets decision trees: an application of a heterogeneous deep forest approach in credit scoring for online consumer lending.	0
125	Discriminatory Label-specific Weights for Multi-label Learning with Missing Labels.	0
124	Enhanced sooty tern optimization algorithm using multiple search guidance strategies and multiple position update modes for solving optimization problems.	0

123 An improved atom search optimization for optimization tasks.

122 Chaotic Wind Driven Optimization with Fitness Distance Balance Strategy. **2022**, 15,

0

121 The fusion fusion optimization (FuFiO) algorithm. **2022**, 12,

2

120 A new hybrid feature selection based on Improved Equilibrium Optimization. **2022**, 104618

0

119 Fast Nondominated Sorting Genetic Algorithm For Multi-Objective Clustering Ensemble. **2022**,

118 A multiple classifiers system with roulette-based feature subspace selection for one-vs-one scheme.

117 Procedural content improvement of game bosses with an evolutionary algorithm.

116 Advanced Orthogonal Learning and Gaussian Barebone Hunger Games for Engineering Design.

1

115 Elastic distances for time-series classification: Itakura versus Sakoe-Chiba constraints.

114 Balancing the trade-off between cost and reliability for wireless sensor networks: a multi-objective optimized deployment method.

1

113 An enhanced whale optimization algorithm with improved dynamic opposite learning and adaptive inertia weight strategy.

0

112 Ten quick tips for biomarker discovery and validation analyses using machine learning. **2022**, 18, e1010357

1

111 SOKNL: A novel way of integrating K-nearest neighbours with adaptive random forest regression for data streams.

110 Multi-level thresholding segmentation for pathological images: Optimal performance design of a new modified differential evolution. **2022**, 148, 105910

0

109 Noise-robust oversampling for imbalanced data classification. **2023**, 133, 109008

1

108 Decomposition based Quantum Inspired Salp Swarm Algorithm for Multiobjective Optimization. **2022**, 1-1

0

107 Towards Automation of Pollen Monitoring: Image-Based Tree Pollen Recognition. **2022**, 219-229

0

106 A new technique for Pneumonia infected patients image recognition based on combination algorithm of smooth generalized pinball SVM and VAEs. **2022**, 1-1

1

105	Chaotic Dingo Optimization Algorithm: Application in Feature Selection for Beamforming Aided Spectrum Sensing. 2022 , 660-673	0
104	IHAOAVOA: An improved hybrid aquila optimizer and African vultures optimization algorithm for global optimization problems. 2022 , 19, 10963-11017	2
103	IMODEII: an Improved IMODE algorithm based on the Reinforcement Learning. 2022 ,	0
102	Improved Harris hawks optimization for non-convex function optimization and design optimization problems. 2023 , 204, 619-639	1
101	A novel Hybrid Harris hawk sine cosine optimization algorithm for reactive power optimization problem. 1-37	0
100	CRA: Identifying Key Classes Using Markov-Chain-Based Ranking Aggregation. 2022 , 11, 491	0
99	An Explainable Artificial Intelligence Approach for Detecting Empathy in Textual Communication. 2022 , 12, 9407	0
98	Multi-operator Differential Evolution with MOEA/D for Solving Multi-objective Optimization Problems. 2022 , 3, 85-95	0
97	iMCOD: Incremental multi-class outlier detection model in data streams. 2022 , 109950	0
96	Improved Slime Mold Algorithm with Dynamic Quantum Rotation Gate and Opposition-Based Learning for Global Optimization and Engineering Design Problems. 2022 , 15, 317	0
95	Self-supervised Discriminative Representation Learning by Fuzzy Autoencoder.	0
94	A Machine Learning Framework for Identifying Influenza Pneumonia From Bacterial Pneumonia for Medical Decision Making. 2022 , 101871	0
93	ACQC: Apollonius Circle-based Quantum Clustering. 2022 , 101877	0
92	An interpretable semi-supervised framework for patch-based classification of breast cancer. 2022 , 12,	0
91	A diversity-aware memetic algorithm for the linear ordering Problem.	0
90	A non-convex robust small sphere and large margin support vector machine for imbalanced data classification.	0
89	Anomaly detection for remote maintenance control system of natural gas pipeline based on nearest neighbor clustering. 2022 ,	0
88	An imbalanced binary classification method based on contrastive learning using multi-label confidence comparisons within sample-neighbors pair. 2022 ,	0

87	Bug localization in game software engineering. 2022 ,	0
86	An improved Harris Hawks optimizer combined with extremal optimization.	0
85	A Modified Gorilla Troops Optimizer for Global Optimization Problem. 2022 , 12, 10144	2
84	Directional crossover slime mould algorithm with adaptive Lévy diversity for the optimal design of real-world problems.	0
83	A horizontal and vertical crossover cuckoo search: Optimizing performance for the engineering problems.	1
82	An efficient multi-threshold image segmentation for skin cancer using boosting whale optimizer. 2022 , 106227	0
81	Intradialytic hypotension prediction using covariance matrix-driven whale optimizer with orthogonal structure-assisted extreme learning machine. 16,	0
80	Multi-threshold image segmentation for melanoma based on Kapur's entropy using enhanced ant colony optimization. 16,	0
79	Pairwise Constraints Multidimensional Scaling for Discriminative Feature Learning. 2022 , 10, 4059	1
78	Performance optimization of water cycle algorithm for multilevel lupus nephritis image segmentation. 2023 , 80, 104139	0
77	An adaptive quadratic interpolation and rounding mechanism sine cosine algorithm with application to constrained engineering optimization problems. 2023 , 213, 119041	1
76	Boosted crow search algorithm for handling multi-threshold image problems with application to X-ray images of COVID-19. 2023 , 213, 119095	0
75	DME: An adaptive and Just-in-time weighted ensemble learning method for classifying block-based concept drift stream. 2022 , 1-1	0
74	A CNN-Based Born-Again TSK Fuzzy Classifier Integrating Soft Label Information and Knowledge Distillation. 2022 , 1-12	0
73	Multi-level threshold segmentation framework for breast cancer images using enhanced differential evolution. 2023 , 80, 104373	1
72	A hybrid Modified Black Widow Optimization and PSO Algorithm: Application in Feature Selection for Cognitive Radio Networks. 2022 ,	0
71	Perturbation-based oversampling technique for imbalanced classification problems.	0
70	Understanding transit ridership in an equity context through a comparison of statistical and machine learning algorithms. 2022 , 105, 103482	0

- 69 Robust multi-view learning with the bounded LINEX loss. **2023**, 518, 384-400 ○
- 68 A kernel-free Laplacian quadratic surface optimal margin distribution machine with application to credit risk assessment. **2023**, 133, 109931 ○
- 67 A supervised fuzzy measure learning algorithm for combining classifiers. **2023**, 622, 490-511 ○
- 66 CHSMOTE: Convex hull-based synthetic minority oversampling technique for alleviating the class imbalance problem. **2023**, 623, 324-341 ○
- 65 Twin SVM for conditional probability estimation in binary and multiclass classification. **2023**, 136, 109253 ○
- 64 On the influence of architectural languages on requirements traceability. ○
- 63 Identification of Pulmonary Hypertension Animal Models Using a New Evolutionary Machine Learning Framework Based on Blood Routine Indicators. ○
- 62 Credit Scoring with Drift Adaptation Using Local Regions of Competence. **2022**, 3, ○
- 61 A new hyper-heuristic based on ant lion optimizer and Tabu search algorithm for replica management in cloud environment. ○
- 60 A novel elitist fruit fly optimization algorithm. ○
- 59 Neural predictor-based automated graph classifier framework. ○
- 58 A Boosted Communicational Salp Swarm Algorithm: Performance Optimization and Comprehensive Analysis. ○
- 57 Tuberculous pleural effusion prediction using ant colony optimizer with grade-based search assisted support vector machine. 16, ○
- 56 An imbalanced binary classification method via space mapping using normalizing flows with class discrepancy constraints. **2022**, ○
- 55 In situ slip estimation for mobile robots in outdoor environments. ○
- 54 Global reliable data generation for imbalanced binary classification with latent codes reconstruction and feature repulsion. ○
- 53 Active Learning by Extreme Learning Machine with Considering Exploration and Exploitation Simultaneously. ○
- 52 Coupling the Causal Inference and Informer Networks for Short-term Forecasting in Irrigation Water Usage. ○

51	Dynamic Chaotic Opposition-Based Learning-Driven Hybrid Aquila Optimizer and Artificial Rabbits Optimization Algorithm: Framework and Applications. 2022 , 10, 2703	2
50	A new population initialization approach based on MetropolisHastings (MH) method.	0
49	Parameter extraction of solar photovoltaic models using queuing search optimization and differential evolution. 2023 , 110032	1
48	BSRWPSO-FKNN: A boosted PSO with fuzzy K-nearest neighbor classifier for predicting atopic dermatitis disease. 16,	0
47	Cauchy mutation boosted Harris hawk algorithm: Optimal performance design and engineering applications.	0
46	Design Optimization of Induction Motor with FDB-Based Archimedes Optimization Algorithm for High Power Fan and Pump Applications. 2023 , 409-428	0
45	Image segmentation of Intracerebral hemorrhage patients based on enhanced hunger Games search Optimizer. 2023 , 82, 104511	0
44	Influence of the Yu T-norm on Vaguely Quantified Rough Set Measure Algorithm Accuracy. 2022 ,	0
43	An Improved Marine Predators Algorithm Based on Group Learning. 2022 ,	0
42	Forecasting Daily Stock Movement Using a Hybrid Normalization Based Intersection Feature Selection and ANN. 2023 , 218, 1424-1433	0
41	A league-knock-out tournament quantum particle swarm optimization algorithm for nonlinear constrained optimization problems and applications.	0
40	Multi-Population Genetic Algorithm and Cuckoo Search Hybrid Technique for Parameter Identification of Fermentation Process Models. 2023 , 11, 427	0
39	Optimization of active power dispatch considering unified power flow controller: application of evolutionary algorithms in a fuzzy framework.	0
38	Whale optimization with random contraction and Rosenbrock method for COVID-19 disease prediction. 2023 , 83, 104638	0
37	Multi-strategy ant colony optimization for multi-level image segmentation: Case study of melanoma. 2023 , 83, 104647	0
36	An estimation of distribution algorithm based on interactions between requirements to solve the bi-objective Next Release Problem. 2023 , 199, 111632	0
35	Ensemble Methods in Customer Churn Prediction: A Comparative Analysis of the State-of-the-Art. 2023 , 11, 1137	0
34	Feature selection of pre-trained shallow CNN using the QLESCA optimizer: COVID-19 detection as a case study.	0

- 33 IDoser: Improving individualized dosing policies with clinical practice and machine learning. ○
- 32 RUE: A robust personalized cost assignment strategy for class imbalance cost-sensitive learning. **2023**, 35, 36-49 ○
- 31 Extended belief rule-based system using bi-level joint optimization for environmental investment forecasting. **2023**, 140, 110275 ○
- 30 Analysis based on statistical distributions: A practical approach for stochastic solvers using discrete and continuous problems. **2023**, 633, 469-490 ○
- 29 X-MODE: Extended Multi-operator Differential Evolution algorithm. **2023**, 211, 85-108 ○
- 28 CKD.Net: A novel deep learning hybrid model for effective, real-time, automated screening tool towards prediction of multi stages of CKD along with eGFR and creatinine. **2023**, 223, 119851 ○
- 27 A grade-based search adaptive random slime mould optimizer for lupus nephritis image segmentation. **2023**, 106950 ○
- 26 Adam-assisted quantum particle swarm optimization guided by length of potential well for numerical function optimization. **2023**, 79, 101309 ○
- 25 A semi-supervised resampling method for class-imbalanced learning. **2023**, 221, 119733 ○
- 24 Elite levy spreading differential evolution via ABC shrink-wrap for multi-threshold segmentation of breast cancer images. **2023**, 82, 104592 ○
- 23 A dual-population evolutionary algorithm based on adaptive constraint strength for constrained multi-objective optimization. **2023**, 77, 101247 ○
- 22 Flexible species distribution modelling methods perform well on spatially separated testing data. **2023**, 32, 369-383 ○
- 21 Multi-objective genetic model for co-clustering ensemble. **2023**, 135, 110058 ○
- 20 An ensemble learning-based model for effective chronic kidney disease prediction. **2022**, ○
- 19 Deep Learning-based Time Series Models for GDP and ICT Growth Prediction in India. **2022**, ○
- 18 Machine learning algorithms applied to intelligent tyre manufacturing. 1-11 ○
- 17 A hybrid rough set shuffled frog leaping knowledge inference system for diagnosis of lung cancer disease. **2023**, 155, 106662 ○
- 16 Improving Imbalanced Data Classification Accuracy by using Fuzzy Similarity Measure and Subtractive Clustering. **2022**, 19, 27-38 ○

- 15 Performance evaluation of LSTM neural networks for consumption prediction. **2022**, 2, 100030 ○
- 14 A complex network-based firefly algorithm for numerical optimization and time series forecasting. **2023**, 137, 110158 ○
- 13 Smooth support vector machine with generalized pinball loss for Pattern Classification. ○
- 12 Optimal PSS design using FDB-based social network search algorithm in multi-machine power systems. ○
- 11 An Efficient Hybrid of an Ant Lion Optimizer and Genetic Algorithm for a Model Parameter Identification Problem. **2023**, 11, 1292 ○
- 10 A selective evolutionary heterogeneous ensemble algorithm for classifying imbalanced data. **2023**, 31, 2733-2757 ○
- 9 SETAR-Tree: a novel and accurate tree algorithm for global time series forecasting. ○
- 8 Dimensional decision covariance colony predation algorithm: global optimization and high-dimensional feature selection. ○
- 7 An enhanced ant colony optimizer with Cauchy-Gaussian fusion and novel movement strategy for multi-threshold COVID-19 X-ray image segmentation. 17, ○
- 6 Group learning algorithm: a new metaheuristic algorithm. ○
- 5 A novel binary horse herd optimization algorithm for feature selection problem. ○
- 4 Laplacian Twin Support Vector Machine With Pinball Loss for Semi-Supervised Classification. **2023**, 11, 31399-31416 ○
- 3 Supervised feature selection on gene expression microarray datasets using manifold learning. **2023**, 104828 ○
- 2 Pneumothorax prediction using a foraging and hunting based ant colony optimizer assisted support vector machine. **2023**, 106948 ○
- 1 Fine-Tuning of Pre-Trained Deep Face Sketch Models Using Smart Switching Slime Mold Algorithm. **2023**, 13, 5102 ○