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## A GA-based feature selection and parameters optimization for support vector machines

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664	A novel gene selection method using GA/SVM and fisher criteria in Alzheimer's disease. <b>2015</b> ,		
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662	. <b>2015</b> ,		1
661	Sparse Proximal Support Vector Machines for feature selection in high dimensional datasets. <i>Expert Systems With Applications</i> , <b>2015</b> , 42, 9183-9191	7.8	18
660	A classifier fusion approach to osteoporosis prediction for women in Taiwan. <b>2015</b> , 32, 360-368		

659	An Adaptive Support Vector Machine-Based Workpiece Surface Classification System Using High-Definition Metrology. <b>2015</b> , 64, 2590-2604		40
658	A chaos embedded GSA-SVM hybrid system for classification. <i>Neural Computing and Applications</i> , <b>2015</b> , 26, 713-721	4.8	34
657	Sequential random k-nearest neighbor feature selection for high-dimensional data. <i>Expert Systems With Applications</i> , <b>2015</b> , 42, 2336-2342	7.8	60
656	Raman spectroscopy of blood serum for Alzheimer's disease diagnostics: specificity relative to other types of dementia. <b>2015</b> , 8, 584-96		86
655	Training enhanced reservoir computing predictor for landslide displacement. <b>2015</b> , 188, 101-109		31
654	A fuzzy rough set approach for incremental feature selection on hybrid information systems. <b>2015</b> , 258, 39-60		129
653	Support vector machine with parameter optimization by a novel hybrid method and its application to fault diagnosis. <b>2015</b> , 149, 641-651		62
652	A GA-based feature selection and parameter optimization of an ANN in diagnosing breast cancer. <b>2015</b> , 18, 861-870		66
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650	An Optimal SVM with Feature Selection Using Multiobjective PSO. <b>2016</b> , 2016, 1-8		3
649	An Interactive Astronaut-Robot System with Gesture Control. <i>Computational Intelligence and Neuroscience</i> , <b>2016</b> , 2016, 7845102	3	20
648	A Hybrid Approach for Fault Diagnosis of Railway Rolling Bearings Using STWD-EMD-GA-LSSVM. <b>2016</b> , 2016, 1-7		2
647	An Effective Fault Feature Extraction Method for Gas Turbine Generator System Diagnosis. <b>2016</b> , 2016, 1-9		6
646	A Multifeatures Fusion and Discrete Firefly Optimization Method for Prediction of Protein Tyrosine Sulfation Residues. <b>2016</b> , 2016, 8151509		2
645	An expert system based on LS-SVM and simulated annealing for the diagnosis of diabetes disease. <b>2016</b> , 9, 88		4
644	Raman Spectral Characteristics of Oil-Paper Insulation and Its Application to Ageing Stage Assessment of Oil-Immersed Transformers. <b>2016</b> , 9, 946		20
643	Using Hybrid Classifiers to Conduct Intangible Assets Evaluation. <b>2016</b> , 7, 19-37		
642	Utility demand response operation considering day-of-use tariff and optimal operation of thermal energy storage system for an industrial building based on particle swarm optimization algorithm. <b>2016</b> , 127, 920-929		15

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639	An optimal SVM with feature selection using multi-objective PSO. <b>2016</b> ,	6
638	A wavelet optimization approach for microemboli classification using RF signals. <b>2016</b> ,	2
637	A hybrid ICA-wavelet transform for automated artefact removal in EEG-based emotion recognition. <b>2016</b> ,	7
636	An AI based approach to multiple census data analysis for feature selection. <b>2016</b> , 31, 859-872	3
635	Parameters optimization of classifier and feature selection based on improved artificial bee colony algorithm. <b>2016</b> ,	6
634	Auto-tuning of parameters in hybrid sampling method for class imbalance problem. <b>2016</b> ,	
633	Two-level active learning method for debris detection using VHR satellite imagery and local aerial surveys. <b>2016</b> ,	
632	Simultaneous feature with support vector selection and parameters optimization using GA-based SVM solve the binary classification. <b>2016</b> ,	2
631	A clustering-based feature selection via feature separability. <b>2016</b> , 31, 927-937	1
630	Feature selection approach based on moth-flame optimization algorithm. <b>2016</b> ,	43
629	Microarray medical data classification using kernel ridge regression and modified cat swarm optimization based gene selection system. <b>2016</b> , 28, 144-160	78
628	GA-ANN Short-Term Electricity Load Forecasting. <b>2016</b> , 485-493	3
627	Sliding window-based support vector regression for predicting micrometeorological data. <i>Expert Systems With Applications</i> , <b>2016</b> , 59, 217-225	7.8 25
626	Comparing four methods for decision-tree induction: A case study on the invasive Iberian gudgeon ( <i>Gobio lozanoi</i> ; Doadrio and Madeira, 2004). <b>2016</b> , 34, 22-34	17
625	Application of genetic algorithm-based support vector machines for prediction of soil liquefaction. <b>2016</b> , 75, 1	16
624	A New Approach Based on PCA and CE-SVM for Hepatitis Diagnosis. <b>2016</b> , 91-99	

623	New mechanism for archive maintenance in PSO-based multi-objective feature selection. <i>Soft Computing</i> , <b>2016</b> , 20, 3927-3946	3.5	29
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621	Risk of invasion predicted with support vector machines: A case study on northern pike ( <i>Esox Lucius</i> , L.) and bleak ( <i>Alburnus alburnus</i> , L.). <b>2016</b> , 342, 123-134		13
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617	Method of sparse design based on the dimension reduction technology and the double partial discharge sources positioning test. <b>2016</b> , 10, 795-804		4
616	A Comparison of Machine Learning Techniques Applied to Landsat-5 TM Spectral Data for Biomass Estimation. <b>2016</b> , 42, 690-705		42
615	Paroxysmal atrial fibrillation prediction method with shorter HRV sequences. <b>2016</b> , 134, 187-96		36
614	Mutual information for feature selection: estimation or counting?. <b>2016</b> , 9, 95-110		15
613	Self-adaptive step fruit fly algorithm optimized support vector regression model for dynamic response prediction of magnetorheological elastomer base isolator. <b>2016</b> , 211, 41-52		25
612	Neuroadaptive Variable Speed Control of Wind Turbine With Wind Speed Estimation. <b>2016</b> , 63, 7754-7764		24
611	Immune Feature Weighted Least-Squares Support Vector Machine for Brain Tumor Detection Using MR Images. <b>2016</b> , 62, 873-884		2
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609	Association rule-based feature selection for credit risk assessment. <b>2016</b> ,		2
608	SVM parameter selection based on harmony search with an application to hyperspectral image classification. <b>2016</b> ,		2
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606	The study on hard landing prediction model with optimized parameter SVM method. <b>2016</b> ,		7

605	A comparison of differential evolution and Harmony Search methods for SVM model selection in hyperspectral image classification. <b>2016,</b>			3
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603	Optimizing channel allocation techniques with GA-SVM for interference reduction in cellular networks. <b>2016,</b>			
602	Simultaneous feature selection and parameter optimisation of support vector machine using adaptive particle swarm gravitational search algorithm. <b>2016, 5, 51</b>			7
601	A traffic identification based on PSO-RBF neural network in peer-to-peer network. <b>2016, 13, 158</b>			5
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598	An improved SVM using predator prey optimization and Hooke-Jeeves method for speech recognition. <b>2016, 4,</b>			
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592	Carbon emission allowance allocation with cap and trade mechanism in air passenger transport. <b>2016, 131, 308-320</b>			35
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585	. <b>2016</b> , 24, 16-28		56
584	Artificial immune system based on adaptive clonal selection for feature selection and parameters optimisation of support vector machines. <i>Connection Science</i> , <b>2016</b> , 28, 47-62	2.8	2
583	Evolving support vector machines using fruit fly optimization for medical data classification. <b>2016</b> , 96, 61-75		382
582	Detecting Bakanae disease in rice seedlings by machine vision. <b>2016</b> , 121, 404-411		67
581	Effective channels in classification and functional connectivity pattern of prefrontal cortex by functional near infrared spectroscopy signals. <b>2016</b> , 127, 3271-3275		11
580	Shifts in the suitable habitat available for brown trout ( <i>Salmo trutta</i> L.) under short-term climate change scenarios. <b>2016</b> , 544, 686-700		32
579	Particle swarm optimization for bandwidth determination and feature selection of kernel density estimation based classifiers in diagnosis of breast cancer. <i>Applied Soft Computing Journal</i> , <b>2016</b> , 40, 113-131	7.5	108
578	A new sense-through-foliage target recognition method based on hybrid particle swarm optimization-based wavelet twin support vector machine. <b>2016</b> , 80, 58-70		2
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574	A multiobjective framework for wind speed prediction interval forecasts. <b>2016</b> , 87, 903-910		48
573	Parameter Optimization of Support Vector Machine by Improved Ant Colony Optimization. <b>2016</b> , 671-678		2
572	A hybrid grid-GA-based LSSVR learning paradigm for crude oil price forecasting. <i>Neural Computing and Applications</i> , <b>2016</b> , 27, 2193-2215	4.8	31
571	Fault diagnosis of nonlinear and large-scale processes using novel modified kernel Fisher discriminant analysis approach. <b>2016</b> , 47, 1095-1109		7
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564	Geographical traceability of wild <i>Boletus edulis</i> based on data fusion of FT-MIR and ICP-AES coupled with data mining methods (SVM). <b>2017</b> , 177, 20-27		53
563	Improving Spectral-spatial Classification of Hyperspectral Imagery Using Spectral Dimensionality Reduction Based on Weighted Genetic Algorithm. <b>2017</b> , 45, 927-937		2
562	GA-SVM Algorithm for Improving Land-Cover Classification Using SAR and Optical Remote Sensing Data. <b>2017</b> , 14, 284-288		94
561	Application of binary quantum-inspired gravitational search algorithm in feature subset selection. <b>2017</b> , 47, 304-318		42
560	Robust multiobjective evolutionary feature subset selection algorithm for binary classification using machine learning techniques. <b>2017</b> , 241, 128-146		28
559	Weighted linear loss multiple birth support vector machine based on information granulation for multi-class classification. <b>2017</b> , 67, 32-46		56
558	A novel bacterial foraging optimization algorithm for feature selection. <i>Expert Systems With Applications</i> , <b>2017</b> , 83, 1-17	7.8	73
557	Applying soft computing methods to predict the uniaxial compressive strength of rocks from schmidt hammer rebound values. <b>2017</b> , 21, 665-681		17
556	Learnheuristics: hybridizing metaheuristics with machine learning for optimization with dynamic inputs. <b>2017</b> , 15, 261-280		69
555	A BPSO-SVM algorithm based on memory renewal and enhanced mutation mechanisms for feature selection. <i>Applied Soft Computing Journal</i> , <b>2017</b> , 58, 176-192	7.5	56
554	Algorithms Analysis in Adjusting the SVM Parameters: An Approach in the Prediction of Protein Function. <b>2017</b> , 31, 316-331		8
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549	Remote sensing image classification based on the optimal support vector machine and modified binary coded ant colony optimization algorithm. <i>Information Sciences</i> , <b>2017</b> , 402, 50-68	7.7	66
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547	A hybrid PSO-SVM-based method for predicting the friction coefficient between aircraft tire and coating. <b>2017</b> , 28, 025004		10
546	A combined parallel genetic algorithm and support vector machine model for breast cancer detection. <b>2017</b> , 16, 773-785		4
545	Hyper-Parameter Tuning for Support Vector Machines by Estimation of Distribution Algorithms. <b>2017</b> , 787-800		15
544	An ionospheric clutter recognition method based on machine learning. <b>2017</b> ,		4
543	Exploring spatiotemporal meteorological correlations for basin scale meteorological drought forecasting using data mining methods. <b>2017</b> , 10, 1		9
542	A novel approach for dimension reduction of microarray. <b>2017</b> , 71, 161-169		32
541	A statistical analysis based recommender model for heart disease patients. <b>2017</b> , 108, 134-145		31
540	Gait Recognition Using GA-SVM Method Based on Electromyography Signal. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 313-322	0.9	1
539	Support-vector-regression-based prediction of water holdup in horizontal oil-water flow by using a bicircular conductance probe array. <b>2017</b> , 57, 64-72		1
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537	Feature selection approach based on whale optimization algorithm. <b>2017</b> ,		40
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535	Thermal error modeling with dirty and small training sample for the motorized spindle of a precision boring machine. <b>2017</b> , 93, 571-586		9
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533	DPLS-MSOM Modeling for Visual Industrial Fault Diagnosis and Monitoring Based on Variation Data from Normal to Anomalous. <b>2017</b> , 56, 14518-14529		3
532	Evaluation of different metaheuristic optimization algorithms in feature selection and parameter determination in SVM classification. <b>2017</b> , 10, 1		6
531	Disaster prediction model based on support vector machine for regression and improved differential evolution. <b>2017</b> , 85, 959-976		13
530	Coevolution of mapping functions for linear SVM. <b>2017</b> ,		0
529	An efficient intrusion detection system based on hypergraph - Genetic algorithm for parameter optimization and feature selection in support vector machine. <b>2017</b> , 134, 1-12		115
528	Elitist Binary Wolf Search Algorithm for Heuristic Feature Selection in High-Dimensional Bioinformatics Datasets. <i>Scientific Reports</i> , <b>2017</b> , 7, 4354	4.9	14
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526	Geographic Characterization of <i>Leccinum rugosiceps</i> by Ultraviolet and Infrared Spectral Fusion. <b>2017</b> , 50, 2257-2269		10
525	Near infrared spectroscopy and element concentration analysis for assessing yerba mate ( <i>Ilex paraguariensis</i> ) samples according to the country of origin. <b>2017</b> , 140, 348-360		16
524	A new hybrid approach for feature selection and support vector machine model selection based on self-adaptive cohort intelligence. <i>Expert Systems With Applications</i> , <b>2017</b> , 88, 118-131	7.8	40
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522	Applying computational intelligence methods for predicting the sales of newly published books in a real editorial business management environment. <b>2017</b> , 115, 133-151		22
521	An EnKF-based scheme to optimize hyper-parameters and features for SVM classifier. <b>2017</b> , 62, 202-213		14
520	A BA-based algorithm for parameter optimization of Support Vector Machine. <b>2017</b> , 93, 13-22		93
519	Feature weighting and SVM parameters optimization based on genetic algorithms for classification problems. <b>2017</b> , 46, 455-469		58
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517	A New Hybrid Intelligent Framework for Predicting Parkinson's Disease. <i>IEEE Access</i> , <b>2017</b> , 5, 17188-17200	9.5	42
516	Sparse autoencoder based feature learning for unmanned aerial vehicle landforms image classification. <b>2017</b> ,		

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514	Parallelized FPA-SVM: Parallelized parameter selection and classification using Flower Pollination Algorithm and Support Vector Machine. <b>2017,</b>		0
513	The Improved Particle Swarm Optimization for Feature Selection of Support Vector Machine. <b>2017,</b>		
512	The comparison of optimizing SVM by GA and grid search. <b>2017,</b>		15
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500	Non-Traditional Data Mining Applications in Taiwan National Health Insurance (NHI) Databases. <b>2017,</b> 12, 31-51		
499	Determination of Total Flavonoid Content in Flos Sophorae Immaturus Using Near Infrared Spectroscopy. <b>2017,</b>		
498	Application of support vector machine for the separation of mineralised zones in the Takht-e-Gonbad porphyry deposit, SE Iran. <b>2018,</b> 143, 301-308		10

497	Combustion Optimization Based on Computational Intelligence. <b>2018,</b>		0
496	Geographic identification of Boletus mushrooms by data fusion of FT-IR and UV spectroscopies combined with multivariate statistical analysis. <b>2018,</b> 198, 257-263		21
495	Intrusion detection system for wireless mesh network using multiple support vector machine classifiers with genetic-algorithm-based feature selection. <b>2018,</b> 77, 304-314		76
494	Gradient Evolution-based Support Vector Machine Algorithm for Classification. <b>2018,</b> 319, 012062		1
493	A particle swarm approach for tuning washout algorithms in vehicle simulators. <i>Applied Soft Computing Journal</i> , <b>2018,</b> 68, 125-135	7.5	12
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491	Mortality prediction based on imbalanced high-dimensional ICU big data. <b>2018,</b> 98, 218-225		17
490	FT-MIR and UV-Vis data fusion strategy for origins discrimination of wild <i>Paris Polyphylla</i> Smith var. <i>yunnanensis</i> . <b>2018,</b> 96, 125-136		16
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488	Optimization of computer aided detection systems: An evolutionary approach. <i>Expert Systems With Applications</i> , <b>2018,</b> 100, 145-156	7.8	10
487	Estimating soil organic carbon stocks using different modelling techniques in the semi-arid rangelands of eastern Australia. <b>2018,</b> 88, 425-438		77
486	Electronic Nose-Based Odor Classification using Genetic Algorithms and Fuzzy Support Vector Machines. <b>2018,</b> 20, 1309-1320		12
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483	PATTERN RECOGNITION. <b>2018,</b> 1-52		
482	Fuzzy Logic Augmentation of Neural and Optimization Algorithms: Theoretical Aspects and Real Applications. <b>2018,</b>		1
481	An accurate ecological footprint analysis and prediction for Beijing based on SVM model. <b>2018,</b> 44, 33-42		23
480	Application of evolutionary neural networks and support vector machines to model NOx emissions from gas turbines. <b>2018,</b> 6, 1044-1052		8

479	Bio-inspired Metaheuristics for Hyper-parameter Tuning of Support Vector Machine Classifiers. <b>2018</b> , 115-130		3
478	Novel multiobjective TLBO algorithms for the feature subset selection problem. <b>2018</b> , 306, 94-107		33
477	Emerging Challenges. <b>2018</b> , 173-205		
476	Minimization of water pumps' electricity usage: A hybrid approach of regression models with optimization. <i>Expert Systems With Applications</i> , <b>2018</b> , 107, 222-242	7.8	14
475	Machine learning approaches for large scale classification of produce. <i>Scientific Reports</i> , <b>2018</b> , 8, 5226	4.9	13
474	Joint Prediction of Remaining Useful Life and Failure Type of Train Wheelsets: Multitask Learning Approach. <b>2018</b> , 144, 04018016		6
473	A GA_FFNN algorithm applied for classification in diseased plant leaf system. <b>2018</b> , 77, 24387-24403		6
472	Emergence EEG pattern classification in sevoflurane anesthesia. <b>2018</b> , 39, 045006		14
471	Edge-enhanced bi-dimensional empirical mode decomposition-based emotion recognition using fusion of feature set. <i>Soft Computing</i> , <b>2018</b> , 22, 889-903	3.5	6
470	A multi-verse optimizer approach for feature selection and optimizing SVM parameters based on a robust system architecture. <i>Neural Computing and Applications</i> , <b>2018</b> , 30, 2355-2369	4.8	112
469	A multi-objective genetic algorithm for simultaneous model and feature selection for support vector machines. <b>2018</b> , 50, 261-281		21
468	An IWD-based feature selection method for intrusion detection system. <i>Soft Computing</i> , <b>2018</b> , 22, 4407-4416		33
467	Developing a new intelligent system for the diagnosis of tuberculous pleural effusion. <b>2018</b> , 153, 211-225		137
466	Revisiting probabilistic neural networks: a comparative study with support vector machines and the microhabitat suitability for the Eastern Iberian chub ( <i>Squalius valentinus</i> ). <b>2018</b> , 43, 24-37		13
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464	Parameter Optimization of Support Vector Machine Using Dragonfly Algorithm. <b>2018</b> , 309-319		16
463	A two-stage feature selection and intelligent fault diagnosis method for rotating machinery using hybrid filter and wrapper method. <b>2018</b> , 275, 2426-2439		46
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455	Hybrid GA-PCA Feature Selection Approach for Inertial Human Activity Recognition. <b>2018</b> ,	1
454	Classification of cancer data based on support vectors machines with feature selection using genetic algorithm and Laplacian score. <b>2018</b> ,	1
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