Appendix A. List of Analyzed Papers

This appendix shows all the articles reviewed for each of the strategies mentioned in section 3, which are described in Figure 4. Most of them have not been cited in the paper for reasonable space constraints. They are divided into the following categories:

1. Random

1.A. Given probability

1.A.3. Feature Selection with a Genetic Algorithm for Classification of Brain Imaging Data (Szenkovits, Meszlényi, Buza, Gaskó, Lung, & Suciu, 2017)
1.A.4. RGAP: A Rough Set, Genetic Algorithm and Particle Swarm Optimization based Feature Selection Approach (Gupta & Purohit, 2017)

1.B. Even probability

1.B.2. PHGA: Proposed Hybrid Genetic Algorithm for Feature Selection in Binary Classification (Khiabani & Sabbaghi, 2017)
1.B.6. Feature Selection Based on Hybridization of Genetic Algorithm and Particle Swarm Optimization (Ghamisi & Benediktsson, 2015)
1.B.7. Genetic algorithm based feature selection combined with dual classification for the automated detection of proliferative diabetic retinopathy (Welikala, Fraz, Dehmeshki, Hoppe, Tah, Mann, Williamson, & Barman, 2015b)
1.B.8. Hybrid feature selection based on enhanced genetic algorithm for text categorization (Ghareb, Bakar, & Hamdan, 2016)
1.B.10. The Feature Selection Method based on Genetic Algorithm for Efficient of Text Clustering and Text Classification (Hong, Lee, & Han, 2015)


1.B.15. Feature selection in cancer microarray data using multi-objective genetic algorithm combined with correlation coefficient (Hasnat & Molla, 2016)


1.B.20. Genetic Algorithm Based Feature Selection Combined with Dual Classification for the Automated Detection of Proliferative Diabetic Retinopathy (Welikala, Fraz, Dehmeshki, Hoppe, Tah, Mann, & Barman, 2015a)


1.B.24. Feature Selection for Object-Based Classification of High-Resolution Remote Sensing Images Based on the Combination of a Genetic Algorithm and Tabu Search (Shi, Wan, Gao, & Wang, 2018)


1.B.28. A novel hybrid genetic algorithm with granular information for feature selection and optimization (Dong, Li, Ding, & Sun, 2018)

1.B.30. A Genetic Feature Selection Algorithm for Anomaly Classification in Mobile Networks (Kajó & Nováczi, 2016)

1.B.31. Intrusion detection system for wireless mesh network using multiple support vector machine classifiers with genetic-algorithm-based feature selection (Vijayanand, Devaraj, & Kannapiran, 2018)


1.B.34. Maximizing Appropriate Responses Returned by a Conversational Agent through the Use of a Genetic Algorithm for Feature Selection (McClendon, Hodges, & Remy, 2016a)


1.B.37. An Intelligent System for Lung Cancer Diagnosis Using a New Genetic Algorithm Based Feature Selection Method (Lu, Zhu, & Gu, 2014)

1.B.38. Multi-objective Genetic Algorithm setup for feature subset selection in clustering (Kashyap, Das, Bhattacharjee, Halder, & Goswami, 2016)


1.B.41. Genetic algorithm based feature selection and parameter optimization for support vector regression applied to semantic textual similarity (Su & Wang, 2015)

1.B.42. A Feature Selection Method Based on Shapley Value to False Alarm Reduction in ICUs, A Genetic-Algorithm Approach (Zaeri-Amirani, Afghah, & Mousavi, 2018)

1.B.43. Performance Analysis of Genetic Algorithm with kNN and SVM for Feature Selection in Tumor Classification (Gunavathi & Premalatha, 2014)

1.B.44. An improved simulated annealing genetic algorithm of EEG feature selection in sleep stage (Ji, Bu, Sun, & Liu, 2016)


1.B.46. Maximizing the Number of Appropriate Responses Returned by a Conversational Agent through the Use of a Genetic Algorithm for Feature Selection (McClendon, Hodges, & Remy, 2016b)
1.B.47. Multi-Objective Feature Subset Selection using Non-dominated Sorting Genetic Algorithm (Khan & Baig, 2015)
1.B.48. Dynamic feature selection with wrapper model and ensemble approach based on measures of local relevances and group diversity using genetic algorithm (Kurzynski, Trajdos, & Krysmann, 2015)
1.B.52. A genetic algorithm feature selection based approach for Arabic Sentiment Classification (Aliane, Aliane, Ziane, & Bensaou, 2016)
1.B.53. Feature Selection Optimization in SPL using Genetic Algorithm (Kumari et al., 2018)
1.B.55. A hybrid feature selection method based on genetic algorithm and information gain (He, Yang, Miao, & Louis, 2016)
1.B.56. A Feature Selection Model based on Genetic Algorithm for Intrusion Detection (Mahmood & Hameed, 2016)
1.B.58. Feature selection for facial emotion recognition based on genetic algorithm (Boubenna & Lee, 2016)
1.B.60. Genetic algorithm with different feature selection method for intrusion detection (Cleetus & Dhanya, 2014)
1.B.64. Differential evolution and genetic algorithm based feature subset selection for recognition of river ice types (Bharathi & Subashini, 2014)
1.B.65. A Survey on Genetic Algorithm Based Feature Selection for Disease Diagnosis System (Sindhiya & Gunasundari, 2014)
1.B.67. Feature selection for mining SNP from Leukaemia cancer using Genetic Algorithm with BCO (Prathibha & Chandran, 2016)


1.B.70. A Hybrid Feature Selection based on Mutual Information and Genetic Algorithm (Lan, 2017)

1.B.71. Genetic algorithm assisted by a SVM for feature selection in gait classification (Yeoh, Zapotecas-Martínez, Akimoto, Aguirre, & Tanaka, 2014)

1.B.72. Application of genetic algorithm as feature selection technique in development of effective fault prediction model (Kumar & Rath, 2016)

1.B.73. Genetic Algorithm Based Feature Selection for Detection of Surface Defects on Oranges (Thendral & Suhasini, 2016)

1.B.74. A Multi-Objective Genetic Local Search Algorithm for Optimal Feature Subset Selection (Tian, 2016)

1.B.75. Feature selection in web ner using genetic algorithm approach (Abdulghani & Tiun, 2016)

1.B.76. Binary Coded Genetic Algorithm with Ensemble Classifier for feature selection in JPEG steganalysis (Sachnev & Kim, 2014)

1.B.77. Enhancing the Performance of Feature Selection using a Hybrid Genetic Algorithm (Vanjulavalli & Kovalan, 2015)

1.B.78. Genetic Algorithm based Feature Selection in High Dimensional Text Dataset Classification (Catak, 2015)


1.B.82. Feature Selection in High Dimensional Data by a Filter-Based Genetic Algorithm (De Stefano, Fontanella, & di Freca, 2017)


1.B.84. Feature Selection for Heart Rate Variability Based Biometric Recognition Using Genetic Algorithm (Akhter, Dabhade, Bansod, & Kale, 2016)


1.B.88. An efficient intrusion detection system based on hypergraph - Genetic algorithm for parameter optimization and feature selection in support vector machine(Raman, Somu, Kirthivasan, Liscano, & Sriram, 2017)


1.B.90. Optimization of Feature Selection in Face Recognition System Using Differential Evolution and Genetic Algorithm (Maheshwari, Kumar, & Kumar, 2016)

1.B.91. A Lexicographic Multi-Objective Genetic Algorithm for Multi-Label Correlation Based Feature Selection (Jungjit & Freitas, 2015a)


1.B.93. Feature Selection Using Genetic Algorithm for Big Data (Saidi, Ncir, & Essoussi, 2018)


1.B.95. Deluge based Genetic Algorithm for feature selection (Guha, Ghosh, Kapri, Shaw, Mutsuddi, Bhaveja, & Sarkar, 2019)

1.B.96. A Nested Genetic Algorithm for feature selection in high-dimensional cancer Microarray datasets (Sayed, Nassef, Badr, & Farag, 2019)


1.B.101. Multi-objective feature selection using hybridization of a genetic algorithm and direct multisearch for key quality characteristic selection (Li, Xue, & Zhang, 2020a)

1.B.103. Feature Selection of EEG Oscillatory Activity Related to Motor Imagery Using a Hierarchical Genetic Algorithm (Leon, Ballesteros, Tidare, Xiong, & Astrand, 2019)


1.B.106. Feature selection based on hybridization of genetic algorithm and competitive swarm optimizer (Ding, Zhou, & Bi, 2020)


1.B.110. Self-Tune Linear Adaptive-Genetic Algorithm for Feature Selection (Ooi, Lim, & Leong, 2019)


1.B.113. Feature selection with genetic algorithm for protein function prediction (Santos, Rodrigues, Pinto, Nobre, & Zárate, 2019)

1.B.114. A two stages algorithm for feature selection based on feature score and genetic algorithms (Huang, 2019)

1.B.115. Genetic algorithm-based feature selection for depression scale prediction (Lee, Moon, Kim, & Yoon, 2019)


1.B.117. Feature Selection for Improving Failure Detection in Hard Disk Drives Using a Genetic Algorithm and Significance Scores (Ahmad, Khan, Kim, & Kim, 2020)

1.B.118. Genetic Algorithm for the Mutual Information-Based Feature Selection in Univariate Time Series Data (Siddiqi, Sait, & Kaynak, 2020)

1.B.120. A Novel Genetic Algorithm Approach to Simultaneous Feature Selection and Instance Selection (Albuquerque, Nguyen, Xue, & Zhang, 2020)


1.B.123. Genetic algorithm based feature selection brain tumour segmentation and classification (Kumar, Krishna, & Kusumavathi, 2019)


1.B.125. A Feature Selection Method Based on Improved Genetic Algorithm (Liang, Dai, & Du, 2020)

1.B.126. Stock Prediction Based on Genetic Algorithm Feature Selection and Long Short-Term Memory Neural Network (Chen & Zhou, 2020)


1.B.128. Island Model Genetic Algorithm for Feature Selection in Non-Traditional Credit Risk Evaluation (Liu, Ghandar, & Theodoropoulos, 2019)

1.B.129. A Novel Deep Learning Classifier and Genetic Algorithm Based Feature Selection for Hybrid EEG-fNIRS Brain-Computer Interface (Padmavathy, Kumar, Shakunthala, Kumar, & Saravanan, 2020)


1.B.131. Estimation of healthcare expenditure per capita of Turkey using artificial intelligence techniques with genetic algorithm-based feature selection (Ceylan & Atalan, 2020)


1.B.139. A Novel Feature Selection Algorithm Based on Artificial Bee Colony Algorithm and Genetic Algorithm (Ge, Zhang, Liu, & Sun, 2019)

1.B.140. Feature selection using principal component analysis and genetic algorithm (Adhao & Pachghare, 2020)


1.B.142. A master slave parallel genetic algorithm for feature selection in high dimensional datasets (Tatwani & Kumar, 2019)


1.B.144. Classification of spammer and nonspammer content in online social network using genetic algorithm-based feature selection (Sahoo & Gupta, 2020)

1.B.145. A New Hybrid Feature Subset Selection Framework Based on Binary Genetic Algorithm and Information Theory (Shukla, Singh, & Vardhan, 2019)


1.B.147. Enhancing the Classification Performance of Lower Back Pain Symptoms Using Genetic Algorithm-Based Feature Selection (Al Imran, Rifat, & Mohammad, 2020)


1.C. Given number


1.C.2. Improving flood forecasting through feature selection by a genetic algorithm – experiments based on real data from an Amazon rainforest river (Vieira, Garcia, Pabón, Cota, de Souza, Ueyama, & Pessin, 2020)

1.D. Normal

1.D.1. A genetic algorithm based feature selection for binary phenotype prediction using structural brain magnetic resonance imaging (Ma & Xia, 2017a)

1.E. Uniform
1.E.2. Comparison of Naive Bayes and Decision Tree on Feature Selection Using Genetic Algorithm for Classification Problem (Rahmadani, Dongoran, Zarlis, et al., 2018)

1.F. Special coverings
1.F.1. Relevant feature selection and ensemble classifier design using bi-objective genetic algorithm (Das, Pati, & Ghosh, 2020)

2. Measure
2.1. Genetic algorithm-based heuristic for feature selection in credit risk assessment (Oreski & Oreski, 2014)
2.2. Information gain directed genetic algorithm wrapper feature selection for credit rating (Jadhav, He, & Jenkins, 2018)
2.3. A hybrid feature subset selection by combining filters and genetic algorithm (Singh & Selvakumar, 2015)
2.4. Modified genetic algorithm-based feature selection combined with pre-trained deep neural network for demand forecasting in outpatient department (Jiang, Chin, Wang, Qu, & Tsui, 2017)
2.5. A hybrid system with filter approach and multiple population genetic algorithm for feature selection in credit scoring (Wang, Zhang, Bai, & Mao, 2018)
2.6. Hybrid Feature Selection Based on Improved Genetic Algorithm for Stock Prediction (Mao, Zhang, & Fan, 2016)
2.7. Classification of Methicillin-Resistant and Methicillin-Susceptible Staphylococcus Aureus Using an Improved Genetic Algorithm for Feature Selection Based on Mass Spectra (Bai, Fan, Zhang, Xu, & Zhang, 2017)

3. Hybrids
3.1. A Feature Selection Method Based on Feature Grouping and Genetic Algorithm (Lin, Wang, Xiao, Huang, & Wang, 2015b)

3.3. Improving Floating Search Feature Selection using Genetic Algorithm (Homsapaya & Sornil, 2017)

3.4. Modified Floating Search Feature Selection Based on Genetic Algorithm (Homsapaya & Sornil, 2018)

4. Predetermined

4.1. A novel genetic algorithm approach for simultaneous feature and classifier selection in multi classifier system (Nguyen, Liew, Tran, Pham, & Nguyen, 2014)


5. Expert knowledge

5.1. A new feature selection IDS based on genetic algorithm and SVM (Gharae & Hossein, 2016)

6. Undefined

6.1. Application of Genetic Algorithm for Cancer Diagnosis by Feature Selection (Mansoori, Suman, & Mishra, 2014)


6.3. Genetic algorithm spectral feature selection coupled with quadratic discriminant analysis for ATR-FTIR spectrometric diagnosis of basal cell carcinoma via blood sample analysis (Khanmohammadi, Ghasemi, & Garmarudi, 2014)

6.4. Feature Selection Using Genetic Algorithm for Face Recognition Based on PCA, Wavelet and SVM (Satone & Kharate, 2014)


6.6. Feature selection and recognition of electroencephalogram signals: An extreme learning machine and genetic algorithm-based approach (Lin, Huang, Zhong, Lin, & Xue, 2015a)
6.7. Feature Selection and Classification of Electroencephalographic Signals An Artificial Neural Network and Genetic Algorithm Based Approach (Erguzel, Ozekes, Tan, & Gultekin, 2015)


6.9. Combining the genetic algorithm and successive projection algorithm for the selection of feature wavelengths to evaluate exudative features in frozen–thawed fish muscle (Cheng, Sun, & Pu, 2016)

6.10. Table-Based Matching Approach Using Genetic Algorithm for Feature Selection in Text Categorization (Srinivas & Govardhan, 2016)

6.11. A Fuzzy Parallel Island Model Multi Objective Genetic Algorithm Gene Feature Selection For Microarray Classification (Natarajan & Balasubramanian, 2016)

6.12. Feature Selection Based on Genetic Algorithm, Particle Swarm Optimization and Principal Component Analysis for Opinion Mining Cosmetic Product Review (Kristiyanti & Wahyudi, 2017)


6.15. A Feature Selection Algorithm for Big Data Based on Genetic Algorithm (Tian & Xiong, 2017)


6.17. Automatic Image Region Annotation by Genetic Algorithm-Based Joint Classifier and Feature Selection in Ensemble System (Luong, Nguyen, Pham, Nguyen, Liew, & Stantic, 2018)


6.23. Genetic Algorithm Based Feature Selection With Ensemble Methods For Student Academic Performance Prediction (Farissi, Dahlan, & Samsuryadi, 2020)

7. Off-topic


7.3. Waveband Selection Based Feature Extraction Using Genetic Algorithm (Li, Liang, Tang, & Gai, 2017)

7.4. Feature Selection for High Dimensional Data Using Weighted K-Nearest Neighbors and Genetic Algorithm (Li, Zhang, Chen, Wang, & Zhang, 2020b)

8. Spam

8.1. Hybrid Genetic Algorithm for Medical Image Feature Extraction and Selection (Nagarajan, Minu, Muthukumar, Vedanarayanan, & Sundarsingh, 2016)


9. Without access


9.3. A Hybrid Binary Cuckoo Search and Genetic Algorithm for Feature Selection in Type-2 Diabetes (R Rajalaxmi, 2016)


9.5. Feature selection based on genetic algorithm and hybrid model for sentiment polarity classification (Kalaivani & Shunmuganathan, 2016)


9.9. Usage of ensemble model and genetic algorithm in pipeline for feature selection from cancer microarray data (Barnali, Satchidananda, & Kumar, 2020)

References


