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.1. A hybrid genetic algorithm for feature subset selection in rough set theory (Jing, 2014)

      1.A.2. Genetic algorithm based wrapper feature selection on hybrid prediction model for analysis of high dimensional data (Anirudha, Kannan, & Patil, 2014)

      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.A.5. Efficient genetic algorithm for feature selection for early time series classification (Ahn & Hur, 2020)

   1.B. *Even probability*

      1.B.1. Effective feature selection for supervised learning using genetic algorithm (Hilda & Rajalaxmi, 2015)

      1.B.2. PHGA: Proposed Hybrid Genetic Algorithm for Feature Selection in Binary Classification (Khiabani & Sabbaghi, 2017)

      1.B.3. Feature selection for ECG signal processing using improved genetic algorithm and empirical mode decomposition (Anderson, 2015)

      1.B.4. A multi-objective genetic algorithm for simultaneous model and feature selection for support vector machines (Bouraoui, Jamoussi, & BenAyed, 2018)

      1.B.5. A Genetic Algorithm-Based Feature Selection for Kinship Verification (Alirezazadeh, Fathi, & Abdali-Mohammadi, 2015)

      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.9. DWFS: A Wrapper Feature Selection Tool Based on a Parallel Genetic Algorithm (Soufan, Kleftogiannis, Kalnis, & Bajic, 2015)

      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.11. Genetic algorithm with aggressive mutation for feature selection in BCI feature space (Rejer, 2015)

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.49. An improved genetic algorithm for feature selection in the classification of Disaster-related Twitter messages (Benitez, Sison, & Medina, 2018)

1.B.50. A novel Hybrid Genetic Local Search Algorithm for feature selection and weighting with an application in strategic decision making in innovation management (Eroglu & Kilic, 2017)

1.B.51. Using K-NN with weights to detect diabetes mellitus based on genetic algorithm feature selection (Shu, Zhang, & Tang, 2016)

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.54. A genetic algorithm for feature selection in gait analysis (Altilio, Liparulo, Proietti, Paoloni, & Panella, 2016)

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.57. Optimal feature selection using elitist genetic algorithm (Maini, Misra, & Singh, 2015)

1.B.58. Feature selection for facial emotion recognition based on genetic algorithm (Boubenna & Lee, 2016)

1.B.59. Feature selection using genetic algorithm to improve classification in network intrusion detection system (Ferriyan, Thamrin, Takeda, & Murai, 2017)

1.B.60. Genetic algorithm with different feature selection method for intrusion detection (Cleetus & Dhanya, 2014)

1.B.61. An Efficient Feature Selection Algorithm for Evolving Job Shop Scheduling Rules With Genetic Programming (Mei, Nguyen, Xue, & Zhang, 2017)

1.B.62. Application of Genetic Algorithm Based on F-Ratio Rule in Signal Feature Selection (An, 2017)

1.B.63. Integer-based genetic algorithm for feature selection in multivariate calibration (Sousa, de Lima, de Paula, Lima, Arlindo Filho, & Soares, 2017)

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.66. An effective feature selection approach driven genetic algorithm wrapped Bayes naïve (Mokeddem, Atmani, & Mokaddem, 2016)

1.B.67. Feature selection for mining SNP from Leukaemia cancer using Genetic Algorithm with BCO (Prathibha & Chandran, 2016)

1.B.68. A Genetic Algorithm-based 3D feature selection for lip reading (Morade & Patnaik, 2015)

1.B.69. Feature Selection for Natural Language Call Routing Based on Self-Adaptive Genetic Algorithm (Koromyslova, Semenkina, & Sergienko, 2017)

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.79. Unsupervised feature selection technique based on genetic algorithm for improving the Text Clustering (Abualigah, Khader, & Al-Betar, 2016)

1.B.80. Genetic Algorithm Optimization and Feature Selection for a Support Vector Machine Weed Recognition System in Malaysia at Critical Stage of Development (Wong, Chekima, Mariappan, Khoo, Choo, & Nadarajan, 2014)

1.B.81. Hierarchical polarimetric SAR image classification based on feature selection and Genetic algorithm (Wang, Zhuo, Zhang, & Liao, 2014)

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

1.B.83. Random forest based classification of medical x-ray images using a genetic algorithm for feature selection(Nedjar, EL HABIB DAHO, Settouti, Mahmoudi, & Chikh, 2015)

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

1.B.85. Optimal Feature Subset Selection for Neuron Spike Sorting Using the Genetic Algorithm (Khan, Bhatti, Johnstone, Hanoun, Creighton, & Nahavandi, 2015)

1.B.86. Comparison of genetic algorithm, particle swarm optimization and biogeography-based optimization for feature selection to classify clusters of microcalcifications (Khehra & Pharwaha, 2017)

1.B.87. Feature selection using a combination of genetic algorithm and selection frequency curve analysis (Yang, Wang, Xiao, Yang, Zhu, Zhang, & Zeng, 2015)

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.89. Genetic algorithm-based feature selection for classification of land cover changes using combined LANDSAT and ENVISAT images (Kumar & Arun, 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.92. State Evaluation of Diesel Engine Using Genetic Algorithm for the Feature Selection and Optimize (Liu & Liu, 2014)

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

1.B.94. Research on Feature Selection in Near-Infrared Spectroscopy Classification Based on Improved Adaptive Genetic Algorithm Combined with ReliefF (Liu, Ding, Yu, & Hou, 2017)

1.B.95. Deluge based Genetic Algorithm for feature selection (Guha, Ghosh, Kapri, Shaw, Mutsuddi, Bhateja, & 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.97. A k-NN method for lung cancer prognosis with the use of a genetic algorithm for feature selection(Maleki, Zeinali, & Niaki, 2020)

1.B.98. A new and fast rival genetic algorithm for feature selection (Too & Abdullah, 2020)

1.B.99. A multi-objective genetic algorithm for text feature selection using the relative discriminative criterion (Labani, Moradi, & Jalili, 2020)

1.B.100. A novel hybrid wrapper–filter approach based on genetic algorithm, particle swarm optimization for feature subset selection(Moslehi & Haeri, 2020)

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.102. Android Malware Detection Using Genetic Algorithm based Optimized Feature Selection and Machine Learning (Fatima, Maurya, Dutta, Burget, & Masek, 2019)

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.104. Developing an Indonesia's health literacy short-form survey questionnaire (HLS-EU-SQ10-IDN) using the feature selection and genetic algorithm (Rachmani, Hsu, Nurjanah, Chang, Shidik, Noersasongko, Jumanto, Fuad, Ningrum, Kurniadi, et al., 2019)

1.B.105. Using a genetic algorithm with histogram-based feature selection in hyperspectral image classification (Walton, Sheppard, & Shaw, 2019)

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

1.B.107. Hybrid Efficient Genetic Algorithm for Big Data Feature Selection Problems (Mohammed, Bayat, Ucan, & Alhayali, 2020)

1.B.108. Autonomous Monitoring of Line-to-Line Faults in Photovoltaic Systems by Feature Selection and Parameter Optimization of Support Vector Machine Using Genetic Algorithms (Eskandari, Milimonfared, Aghaei, & Reinders, 2020)

1.B.109. A new ensemble feature selection approach based on genetic algorithm (Wang, He, & Li, 2020)

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

1.B.111. Feature selection with multi-objective genetic algorithm based on a hybrid filter and the symmetrical complementary coefficient (Zhang, Zhang, Wang, & Du, 2020)

1.B.112. Hybrid intelligent phishing website prediction using deep neural networks with genetic algorithm-based feature selection and weighting (Ali & Ahmed, 2019)

1.B.113. Feature selection with genetic algorithm for protein function prediction (Santos, Rodrigues, Pinto, Nobre, & Zárate, 2019)
item Discovery of significant porcine SNPs for swine breed identification by a hybrid of information gain, genetic algorithm, and frequency feature selection technique (Pasupa, Rathasamuth, & Tongsima, 2020)

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.116. Feature Selection Using Multi-Objective Modified Genetic Algorithm in Multimodal Biometric System (Karthiga & Mangai, 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.119. Hybrid feature selection using micro genetic algorithm on microarray gene expression data (Pragadeesh, Jeyaraj, Siranjeevi, Abishek, & Jeyakumar, 2019)

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

1.B.121. Pixels of chemical structures correlate to chromatographic detector responses using genetic algorithm-adaptive neuro-fuzzy inference system as a novel nonlinear feature selection method (Jalili-Jahani, Zeraatkar, Fatehi, & Gholamian, 2020)

1.B.122. Styrian Dialect Classification: Comparing and Fusing Classifiers Based on a Feature Selection Using a Genetic Algorithm (Kisler, Winkelmann, & Schiel, 2019)

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

1.B.124. Genetic Algorithm Application to Feature Selection in sEMG Movement Recognition with Regularized Extreme Learning Machine (Tosin, Bagesteiro, & Balbinot, 2020)

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.127. Modified Genetic Algorithm (MGA) based feature selection with Mean Weighted Least Squares Twin Support Vector Machine (MW-LSTSVM) approach for vegetation classification (Priya & Ramyachitra, 2019)

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.130. Feature Selection for Bleeding Detection in Capsule Endoscopy Images using Genetic Algorithm (Amiri, Hassanpour, & Beghdadi, 2019)

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.132. A Novel Feature Selection Method Using Whale Optimization Algorithm and Genetic Operators for Intrusion Detection System in Wireless Mesh Network (Vijayanand & Devaraj, 2020)

1.B.133. A novel community detection based genetic algorithm for feature selection (Mehrdad, Kamal, & Saman, 2020)

1.B.134. Optimization of Network Intrusion Detection System Using Genetic Algorithm with Improved Feature Selection Technique (Matel, Sison, & Medina, 2019)

1.B.135. Feature Selection Using Multiobjetive Micro-CHC Genetic Algorithm: A Hybrid Approach (Rathee & Ratnoo, 2020)

3.2. An Efficient Cost-Sensitive Feature Selection Using Chaos Genetic Algorithm for Class Imbalance Problem (Bian, Peng, Wang, & Zhang, 2016)

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)

4.2. A Parallel Genetic Algorithm Based Feature Selection and Parameter Optimization for Support Vector Machine (Chen, Lin, Tang, & Xia, 2016)

5. Expert knowledge

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

6. Undefined

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

6.2. Feature Selection Using Parallel Genetic Algorithm for the Prediction of Geometric Mean Diameter of Soil Aggregates by Machine Learning Methods (Besalatpour, Ayoubi, Hajabbasi, Jazi, & Gharipour, 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)

6.5. Dominant feature selection for the fault diagnosis of rotary machines using modified genetic algorithm and empirical mode decomposition (Lu, Yan, & de Silva, 2015)

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)

6.8. A Genetic algorithm based feature selection technique for classification of multiple-subject fMRI data (Accamma, Suma, & Dakshayini, 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)

6.13. Apple leaf disease identification using genetic algorithm and correlation based feature selection method (Chuanlei, Shanwen, Jucheng, Yancui, & Jia, 2017)

6.14. Feature selection for outcome prediction in oesophageal cancer using genetic algorithm and random forest classifier (Paul, Su, Romain, Sébastien, Pierre, & Isabelle, 2017)

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

6.16. A group incremental feature selection for classification using rough set theory based genetic algorithm (Das, Sengupta, & Bhattacharyya, 2018)

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)

6.18. An Optimized Method for Segmentation and Classification of Apple Diseases Based on Strong Correlation and Genetic Algorithm Based Feature Selection (Khan, Lali, Sharif, Javed, Aurangzeb, Haider, Altamrah, & Akram, 2019)

6.19. Genetic Algorithm Based Feature Selection for Landslide Susceptibility Mapping in Northern Iran (Nikraftar, Rajabi-Kiasari, & Seydi, 2019)

6.20. A Signature Best feature selection matching using FAST and genetic algorithm (Jawad & Fadhil, 2020)

6.21. Comparison of Naïve Bayes Algorithm with Genetic Algorithm and Particle Swarm Optimization as Feature Selection for Sentiment Analysis Review of Digital Learning Application (Ernawati, Wati, Nuris, Marita, & Yulia, 2020)

6.22. A hybrid feature selection algorithm combining information gain and genetic search for intrusion detection (Liu, Liang, Fang, Zhou, Hu, Zhou, Hou, & Wang, 2020)

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

7. Off-topic

7.1. Optimal Deep Learning LSTM Model for Electric Load Forecasting using Feature Selection and Genetic Algorithm: Comparison with Machine Learning Approaches (Desale & Ade, 2015)

7.2. Adaptive Feature Selection Based Improved Support Vector Machine Classifier Using Adaboost and Genetic Algorithm for Web Interaction Mining (Kaviyarasu & Kumar, 2017)

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)

8.2. An approach on multi-objective unsupervised feature selection using genetic algorithm (Khan & Mandwi, 2017)

9. Without access

9.1. Feature Subset Selection Using Genetic Algorithm for Intrusion Detection System (Behjat, Vatankhah, & Mustapha, 2014)

9.2. Wrapper Feature Selection based on Genetic Algorithm for Recognizing Objects from Satellite Imagery (Hewahi & Alashqar, 2015)

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

9.4. Analyzing Software Defect Prediction Using K-Means and Expectation Maximization Clustering Algorithm Based On Genetic Feature Selection (Reena & Selvi, 2016)

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

9.6. Distance Based Genetic Algorithm for Feature Selection in Computer Aided Diagnosis Systems (Retmin Raj C, Nehemiah, Elizabeth, et al., 2017)

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