Abstract

Feature selection plays a significant role in improving the performance of the machine learning algorithms in terms of reducing the time to build the learning model and increasing the accuracy in the learning process. Therefore, the researchers pay more attention on the feature selection to enhance the performance of the machine learning algorithms. Identifying the suitable feature selection method is very essential for a given machine learning task with high-dimensional data. Hence, it is required to conduct the study on the various feature selection methods for the research community especially dedicated to develop the suitable feature selection method for enhancing the performance of the machine learning tasks on high-dimensional data. In order to fulfill this objective, this paper devotes the complete literature review on the various feature selection methods for high-dimensional data.

   Wang, S 2011, ‘Predicting human microRNA precursors based on an optimized feature subset
   generated by GA–SVM’, Genomics, vol. 98, no.2, pp.73-78.

20. Xue, B, Zhang, M & Browne, WN 2013, ‘Particle swarm optimization for feature selection
   in classification: A multi-objective approach’, IEEE Transactions on Cybernetics, vol. 43, no.6,
   pp.1656-1671.

   selection with application in obstructive sleep apnea diagnosis’, Neural Computing and

   dimensionality reduction for urban land cover classification’, IEEE Journal of Selected Topics in

determination and feature selection of support vector machines’, Expert systems with
   applications, vol. 35, no. 4, pp.1817-1824.

   attributes’, Proceedings of the IEEE Seventh International Conference on Tools with Artificial
   Intelligence, Washington DC, USA, pp. 388-391.

   no.1, pp.131-156.


27. Inza, I, Larrañaga, P, Etxeberria, R & Sierra, B 2000, ‘Feature subset selection by

   selection strategies and ensemble techniques for classifying music’, Proceedings of Fourteenth
   European Conference on Machine Learning and the Seventh European Conference on
   Principles and Practice of Knowledge Discovery in Databases, Dubrovnik, Croatia

29. Dy, JG & Brodley, CE 2000, ‘Feature subset selection and order identification for
   unsupervised learning’, proceedings In Proceedings of the Seventeenth International


   vector machines’, Information Sciences, 179(13), pp.2208-2217.

   using wrappers, Proceeding of IEEE Symposium on Computational Intelligence and Data
   Mining, Nashville, TN, USA, pp. 332-339.

   using neural network’, Neurocomputing, vol. 73, no. 16, pp.3273-3283.

   intrusion detection with GA-based feature selection’ Proceedings of the forty-third ACM Annual

   wrapper feature selection method for classification of hyperspectral images using support vector...
machine’ Proceedings of Geoinformatics and Joint Conference on GIS and Built Environment: Classification of Remote Sensing Images, pp. 71471J-71471J.


Analysis and Machine Intelligence, vol. 27, no.8, pp.1226-1238.


pp.2383-2392.


Index Terms

Computer Science
Information Sciences

Keywords