A Survey on Stable Feature Selection for Micro Array Data

Abstract

Feature selection has recently attracted strong interest in knowledge discovery from high-dimensional data. Classification is a data mining (machine learning) technique used to predict group membership for data instances, microarray is the technology which allows researchers to gather information on various gene expression all at the same time and this techniques have been applied in many computer application. Gene selection for cancer classification is one of the most important topics in biomedical field. In this survey a common microarray classification techniques based on data mining methodology for perform both accuracy and stability measurement.
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References

- H. Liu and L. Yu, &quot;Toward integrating feature selection algorithms for classification and clustering,&quot; IEEE Transactionson Knowledge and Data Engineering (TKDE), vol. 17, no. 4, pp. 491–502, 2005.
- T. Li, C. Zhang, and M. Ogihara, &quot;A Comparative Study of Feature Selection and Multiclass Classification Methods for Tissue Classification Based on Gene Expression,&quot; Bioinformatics, vol. 20, pp. 2429-2437, 2004.
- I. H. Witten and E. Frank, Data Mining - Practical Machine Learning Tools and
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Index Terms

Computer Science

Data Mining

Keywords

Data Mining  Feature Selection  Stability  Microarray  Classification