Abstract

Over the past two decades, Machine Learning has become one of the mainstays of information technology. Machine learning is concerned with the development of algorithms and achieves optimization classification of attributes. Classification under the decision tree is the prediction approach of data mining techniques. In the decision tree, classification algorithm has the most common classifier to build tree. This research work proposes an optimized classifier framework based on rough set and random tree classifier. Therefore, this paper puts forward a new algorithm, which combined with rough set theory and random Tree, here rough set theory used to reduce the attributes in the decision system, and uses the reduct data, as the input of decision tree. Random tree algorithm is increase high accuracy rate of the result. This article has put new concepts into practice, and the result of these concepts shows that rough set with random tree classifier have high accuracy and low time consumption compared over the rough
set based J48 classifier.

References

18. Xiang Zhuoyuan and  Zhang Lei ,:Research on an optimized C 4.5 Algorithm Based on Rough set Theory.DOI:10.1109/ICMeCG.2012.74Beijing, pp. 72-274International Conference on Management of e-Commerce and e-Government;(2012).
2/3, (December 2000).

21. Aeberhard's second ref. above, or email to stefan '@' coral.cs.jcu.edu.au.
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24. Purva Sewaiwar, Kamal Kant Verma: Comparative Study of Various Decision Tree
Classification Algorithm Using WEKA. International Journal of Emerging Research in

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