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Anthony J. Myles, Robert N. Feudale, Yang Liu, Nathaniel A. Woody, Steven D. Brown

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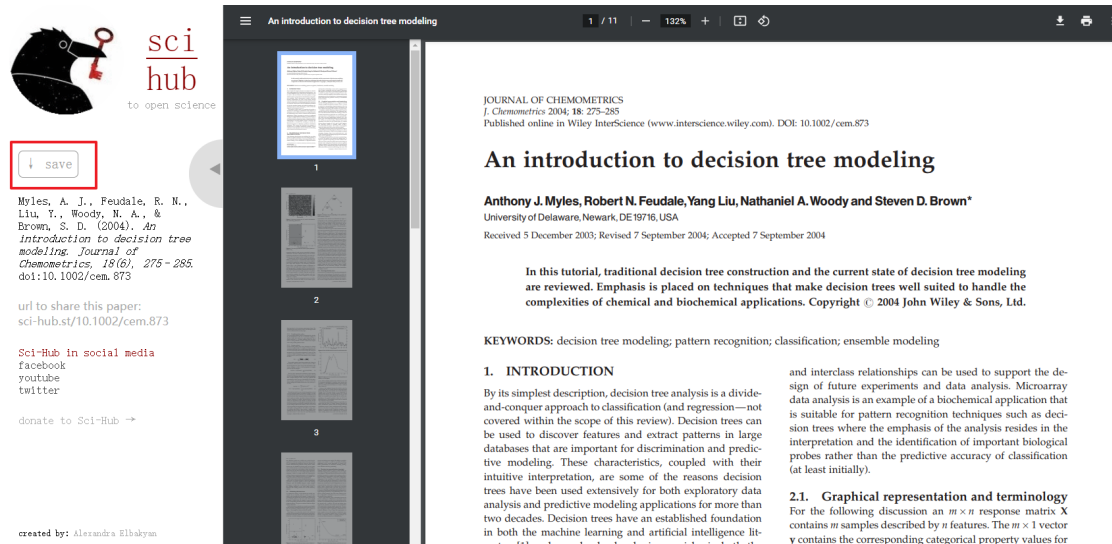
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An introduction to decision tree modeling

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Received 5 December 2003; Revised 7 September 2004; Accepted 7 September 2004

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KEYWORDS: decision tree modeling; pattern recognition; classification; ensemble modeling

1. INTRODUCTION

By its simplest description, decision tree analysis is a divide-and-conquer approach to classification (and regression—not covered within the scope of this review). Decision trees can be used to discover features and extract patterns in large databases that are important for discrimination and predictive modeling. These characteristics, coupled with their intuitive interpretation, are some of the reasons decision trees have been used extensively for both exploratory data analysis and predictive modeling applications for more than two decades. Decision trees have an established foundation in both the machine learning and artificial intelligence literature[1] and are slowly developing a niche in both the

and interclass relationships can be used to support the design of future experiments and data analysis. Microarray data analysis is an example of a biochemical application that is suitable for pattern recognition techniques such as decision trees where the emphasis of the analysis resides in the interpretation and the identification of important biological probes rather than the predictive accuracy of classification (at least initially).

2.1. Graphical representation and terminology

For the following discussion an $m \times n$ response matrix X contains n samples described by n features. The $m \times 1$ vector y contains the corresponding categorical property values for

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