Title: Coupling Typical Data Mining with Classical Machine Learning

Abstract:

There are countless applications to what is commonly known as frequent itemset mining; from association rule mining to recommender System building. Mining for frequent itemsets is a canonical task in data mining. Association rule mining and frequent pattern mining will be very briefly introduced. A new approach for classification, appropriate for multimedia document categorization, using association rules, will be introduced before presenting some illustrative examples of applications for breast cancer detection with mammography analysis and text document classification. We will discuss the issues of discovering classification rules, pruning rules, and selecting rules during classification.