

**NCM: A PROTOTYPE OF VISUAL PROGRAMMING ENVIRONMENT FOR DEVELOPING DATA CLASSIFICATION MINING TOOLS**

Pitchaya Kanhapala  
Department of Computer Science, Faculty of Science, Kasetsart University  
Nittaya Kerdprasop  
School of Computer Engineering, Suranaree University of Technology

**Abstract**

Data Mining is a useful technique for discovering hidden pattern and new knowledge from large volume of data. It not only can be used in scientific research, but also be applied to serve the business community to improve the performance of many other works such as fraud detection, customer relationship management, stock forecasting and risk analysis. But applying general-purpose data mining tools to discover some useful knowledge or interesting patterns is not easy. It is even more difficult for the developer who is not a specialist in the data mining area and has little experience in programming. It is the purpose of this research to develop the prototype of visual programming environment. It can customize data mining tools to fit the different needs of each user group and to make data mining be a user-friendly application for naïve users. We have proposed the visual programming environment prototype named Nearly Codeless Miner (NCM) that incorporated C4.5-like algorithm as one of its components.