Editorial

Dear Colleague:

Welcome to volume 8(6) of the journal *Intelligent Data Analysis!*

This is the last issue for the eighth year of our publication that we are celebrating with great success and reward. At the same time, we would like to thank the authors of high quality papers, our readers and in particular the IOS press staff, who have supported us in publishing the IDA journal.

This issue of the IDA journal consists of six articles that are mainly in three topics. These are: data pre-processing, information visualization and classification.

In the first article of this issue, Shen et al present a framework for classification of the 3D objects. The framework consists of several feature selection schemes in order to improve the performance of classifiers. Their framework is evaluated using both simulated and real data. Their results were comparative and very good with a high accuracy. The second article, by Wu et al also proposes a new framework, this time for data visualization in genetic algorithms. The framework is based on visualizing evolutionary processes from a population point of view. Four visualization methods are included in this article, which are used to demonstrate how evolutionary trends can be visualized. Noh et al, in the third article of this issue, address the problem of data incompleteness in customer related predictive applications. To properly deal with the problem, they introduce a multiple imputation technique and evaluate it with some real data sets. In two case studies, they demonstrate how their approach outperformed traditional methods, especially in data sets that contained large number of missing attributes.

The fourth article in this issue, by Garatti, et al, is an application of data mining techniques to an interesting area called virtual community of some registered users. The uniqueness of the data used is that it is heterogeneous and the novelty of the research is about introducing a new data mining process that would produce the best results. A number of interesting conclusions are included in this article, among them are the effect of users, and their status on the results. Wezel and Kosters, in the next article, present their investigation into the comparison of various methods for scaling of non-parametric multi-dimensional data. The article includes a brief description of all methods, provides an experimental comparison using various synthetic and real data sets with interesting results. And finally, in the last article of this issue, Rooney et al provide a comprehensive overview of Recursive Naïve Bayes Classifiers (RNBC). Using a number of data sets, they demonstrate that RNBC performs better than Naïve Bayes and C4.5 classifiers. They also demonstrate that how variance reducing ensemble techniques, such as Bagging and Boosting, can be effective in increasing the classification accuracy of RNBC.

Planning to hold the 6th International Symposium of *Intelligent Data Analysis* (IDA-2005) in Madrid is complete. Detailed information regarding call for papers and scope of the conference, is available at the IDA Society home page at: http://www.ida-society.org or at the conference home page at: http://www.ida-2005.org. We will have a special issue of the IDA journal, in early 2006, that would be dedicatedto

the extended versions of 5–6 of the best papers presented at this symposium. We look forward to the participation of researchers and practitioners of the IDA field in this big event.

With our best wishes,

Dr. A. Famili
Editor-in-Chief