

Editorial

Dear Colleague:

Welcome to Volume 4(5) of the journal *Intelligent Data Analysis*!

Every time I read an article in a scientific journal, one question comes to my mind: what is the reason for the success of this journal? The answer has always been the authors! This has been the exact case in IDA where we have been quite fortunate for having attracted so many qualified authors to submit their papers. The aim of our journal has been to publish about 70% applied research and 30% theoretical research papers. By doing so, we can fill the gap between what is achieved in various groups working in the field of Intelligent Data Analysis. This issue is another example of our success.

Volume 4(5) of IDA consists of five articles. In the first article, Bursteinas and Long provide a good survey of tree structured classifiers and evaluate their abilities to classify data sets with and without highly correlated attributes. As a result of several experiments, they show that the best performance on the types of data that they used was from naive Bayesian classifiers. The second paper by Calvo and Ceccatto is about applications of neural networks to document classification. They investigated several classification techniques such as support vector machines, KNN and linear least square fit along with neural nets for the problem of text classification. Their results show that neural networks produced best for overall models. In the third paper, Yao et al. introduce a new similarity measure for data clustering. This similarity measure could be employed in a dynamic model to measure the similarity in pattern vectors. Their experimental results demonstrated that this similarity measure was capable of clustering the data on which cluster detection and labeling neural networks fail. The next paper by Tu and Chen deals with the problem of high dimensionality in image data. They introduce a new approach that is based on noise adjusted transformations and benefits from principal component analysis. The results presented in the paper show that their method effectively solves the intrinsic dimensionality problem. The last paper by Bruha et al. is about a genetic learner. They introduce a data discretization/fuzzification preprocessor and evaluate its performance against a number of induction algorithms.

And finally, this year has been quite busy for us as the production of journal was transferred from our previous publisher to IOS Press. This has caused some delays that we are hoping to adjust by the end of this year. We regret for this delay and we are hoping that we will be on schedule starting the last issue of this year. We appreciate your patience. Thank you.

Best wishes,

A. Famili
Editor-in-Chief