Contents

Research

Editorial

Journal of Intelligent Computing (JIC)

This new issue of the **Journal of Intelligent Computing (JIC)** shows the breadth of intelligent systems with a particular focus on knowledge engineering and machine learning for this issue. We have 5 papers in this issue.

The first paper is **GASNP Classifier: A Machine Learning Environment for Building High-level Biological Knowledge**, which presents work on machine learning for bioinformatics. Biological information often consists of complex data sets in terms of content and amount. To make sense of these huge data sets that are becoming available some data mining is required to extract knowledge from the raw data. Various classifiers are being developed. Classification is one of the main tools of machine learning to meet this need for knowledge extraction from biological data.

The fourth paper, **A Mechanism for Selecting Appropriate Data Mining Techniques**, is closely related. As advances in machine learning provide us with ever-growing number of algorithms, techniques and approaches to data mining, from neural networks to statistical approaches etc., selecting the right approach to deal with a given data set may become laborious. In the past, it was the question of trial and error. Nowadays, one field may require multiple techniques to delve into the given data set at different levels of details and from different perspectives.

Second paper, **An enhanced architecture and design for the personalized Content Presentation and Navigation**, and fifth paper, **RAMBUS: An Agile Process for Developing Web Applications**, are concerned with machine learning and knowledge engineering as it is applied in content-based and user-centered systems. Web applications are the perfect specimen of this type of systems.

Finally, the third paper, **Viability of Inductive Logic Programming as a learning mechanism in real-time systems**, is more concerned with developing techniques than the application of machine learning algorithms. The challenge for this paper is answering the needs of real-time systems.

This issue shows the wide range and the exciting research that intelligent computing, especially in the areas of knowledge engineering and machine learning, provides, and it is another step in providing a platform for researchers in this field to showcase their research and communicate their results with the rest of the community.

Editor-in-chief