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## Editorial

Data is inevitable in any human endeavour and the society is now encountered with voluminous data. Thus data processing activities lie in the core of information processing research and researchers deploy newer techniques for handling of such data. Data processing thus increasingly gain momentum in the modern research. The first issue of this volume represents the core research carried out in the domain.

The first paper is on proposing a new data structure with basic work on concept taxonomy. The authors *Johannes K. Chiang* and *Rui-Han Yang* in their paper on "Multidimensional Data Mining for Discover Association Rule in Various Granularities" believe that good data taxonomies can demonstrate the level of efficiency and effectiveness of the data mining algorithm. Accordingly, they proposed the taxonomy of data structure and came out with supporting experimental results.

In the second paper on "Single Object Shape Based Image Retrieval using Zernike Moments", the authors *Suraya Abu Bakar, Muhammad Suzuri Hitam,* and *Wan Nural Jawahir Hj Wan Yussof* have proposed a shape based image retrieval based on Zernike Moments as shape descriptor for retrieval of single binary object from image database. Their experiments lead to the conclusion that Zernike Moments are invariant to rotation, but not invariant to scale confirming the possible applications for object recognition.

In the next paper the authors *Johannes K. Chiang and Sheng-Yin Huang* have proposed data mining algorithm by constructing a forest structure of concept taxonomies that can be used for representing the knowledge space. They tested the performance with respect to efficiency, scalability and information loss, and the results ensure good level of efficiency and effectiveness. In the last presentation, the authors have prepared a position paper which described a position paper relative to recently existing works that deals with context awareness applications as a way of adaptation process in order to provide a global vision and to deduce the architecture of context aware system supporting adaptation. Thus the paper on "A Global Approach of Accessible Context-sensitive User Interface" by *Lamia Zouhaier, Yousra Hlaoui Ben Daly* and *Leila Jemni Ben Ayed* serve as the tool to understand the context awareness applications supported with architectures.

We do hope that the published papers are interesting to read as well as to apply in the current research studies.

## Editors