

# Special Session on Data Mining and Learning Techniques in Intelligent Systems (DMLTIS2'2010)

Under the framework of the 10<sup>th</sup> International Conference on Intelligent Systems  
Design and Applications, ISDA'10  
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Conference web page: <http://cig.iet.unipi.it/isda2010/>

## Session Chairs

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**Introduction:** Information systems for science and engineering are based on using scientific models to describe physical, biological and social applications. Such an approach needs a basic principle or theoretical model to exploit systems. However, in intelligent systems the underlying principles are unknown or the systems are too complex to be mathematically described. With the growing use of computer network and low-cost sensors for data collection, such collected available data can be used to derive models for real-world intelligent systems in the absence of basic models. Finding patterns, trends, and anomalies from large datasets and summarizing them with simple qualified models is one of the most important challenges in the current development of intelligent systems. The efficient and effective techniques for data mining and models learning from data are thus getting important in the real-world applications. The aim of this special session is to invite contributions with modern data mining and machine learning approaches for developing intelligent systems. This session will also provide a forum where researchers can exchange their research results on state-of-the-art mining and learning methods from data and get together for sharing with their experience obtained from the building intelligent systems. It is concerned with construction of unknown model, extraction of implicit knowledge and potentially useful information that can be applied in various intelligent systems.

- Data mining techniques
- Web mining systems
- Supervised learning and applications
- Adaptive intelligent systems
- Intelligent and knowledge based systems
- Sample and feature selection

- Inductive learning
- Pattern recognition systems
- Mobile data mining
- Context mining

#### Instructions for Authors:

Papers must correspond to the requirements detailed in the (Paper Submission) on the conference flyer <http://cig.iet.unipi.it/isda2010/flyer.pdf> and All accepted papers will be published in the proceedings of ISDA'10 that will be also included in the IEEEExplore digital library. Extended versions of selected papers will be considered for publication

#### Registration Fees:

All papers must be presented by one of the authors, who must pay the registration fees.

<http://cig.iet.unipi.it/isda2010/>

#### Paper Reviewing and Publication

Submitted papers will be reviewed. Accepted papers, which should not exceed 6 pages (PDF) following the double column IEEE format. All accepted papers will be published in the proceedings of the ISDA'10. Selected papers will be published in special issues of a selection of International Journals (to be announced).

#### Tentative Dates of Submission and Acceptance

- Deadline for paper submission June 26, 2010
- Notification of acceptance August 14, 2010
- Camera-ready manuscript submission September 15, 2010

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**Tzung-Pei Hong** is a professor of the Department of Computer Science and Information Engineering, National University of Kaohsiung, Kaohsiung, Taiwan. He was the first director of the library and computer center, the Dean of Academic Affairs, and the Vice president in National University of Kaohsiung. He has published more than 350 research papers in international/national journals and conferences and has planned more than fifty information systems. He is also the board member of more than thirty journals and the program committee member of more than one hundred and forty conferences. His current research interests include parallel processing, machine learning, data mining, soft computing, management information systems, and www applications