



**ACIT'2010**  
**The International Arab Conference on Information Technology**  
**University of Garyounis, Benghazi, Libya**  
**December 14-16, 2010**  
**SPECIAL SESSION CALL FOR PAPERS**



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**Special Session on Data Warehousing and Knowledge Discovery**

Data Warehousing and Knowledge Discovery has been widely accepted as a key technology for enterprises and organizations to improve their abilities in data analysis, decision support, and the automatic extraction of knowledge from data. With the exponentially growing amount of information to be included in the decision making process, the data to be considered becomes more and more complex in both structure and semantics. New developments such as cloud computing add to the challenges with massive scaling, a new computing infrastructure, and new types of data. Consequently, the process of retrieval and knowledge discovery from this huge amount of heterogeneous complex data builds the litmus-test for the research in the area.

During the past years, Data Warehousing and Knowledge Discovery has become one of the most important international scientific research area that brings together researchers, developers and practitioners to discuss latest research issues and experiences in developing and deploying data warehousing and knowledge discovery systems, applications, and solutions. This special session aims at facilitating the cross-disciplinary exchange of ideas, experience and potential research directions. We seek to introduce innovative principles, methods, algorithms and solutions to challenging problems faced in the development of data warehousing, knowledge discovery, data mining applications, and the emerging area of "cloud intelligence". Submissions presenting current research work on both theoretical and practical aspects of data warehousing and knowledge discovery are encouraged. Particularly, we strongly welcome submissions dealing with emerging real world applications such as real-time data warehousing, analysis of spatial and spatiotemporal data, OLAP mining, and mining science data (e.g. bioinformatics, geophysics).

This special session on data warehousing and knowledge discovery includes (but is not limited to) the following topics:

- Data warehouse architecture
- Data extraction, cleansing, transforming and loading
- Data warehouse design (conceptual, logical and physical)
- Multidimensional modeling and queries
- Data warehousing consistency and quality
- Data warehouse maintenance and evolution
- Performance optimization and tuning
- Implementation/compression techniques
- Data warehouse metadata
- Data warehousing tools
- OLAP and analytics tools
- Data mining tools
- Industry experiences
- Data warehousing applications: corporate, scientific, government, healthcare, bioinformatics, etc.
- Data mining applications: bioinformatics, E-commerce, Web, intrusion/fraud detection, finance, healthcare, marketing, telecommunications, etc
- Data mining support for designing information systems
- Business Process Intelligence (BPI)

**Session Chair:**

Dr. Jamel Feki, University of Sfax, Tunisia.

**For submission:**

Send your submission directly to [Jamel.feki@fsegs.Rnu.tn](mailto:Jamel.feki@fsegs.Rnu.tn)

Use OpenConf System: <http://acit2k.org/openconf/author/submit.php>  
and select: Data Warehousing and knowledge Discovery topic