

# ***DPUbiq***

Data Processing in Ubiquitous Information Systems Workshop  
In conjunction with 2007 IEEE 23rd International Conference on Data  
Engineering (ICDE'07), April 15, Istanbul, Turkey

## **Important Dates**

Submission: Dec-1<sup>st</sup>

Notification: Jan-5<sup>th</sup>

Camera-ready: Jan-12<sup>th</sup>

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Ubiquitous Information Systems are today emerging everywhere. From industry driven RFIDs, to military driven Wireless Sensor Networks, academic Grid systems, and through to pop-culture Peer-to-Peer systems. The number of researchers working on such systems in academy, the volume of industry investments, and the number of real applications for those systems is sky rocketing. Concomitantly, there is a natural trend towards performing ever more complex computations on those systems. Thus, there is an increasing number of researchers studying complex algorithms for data processing in ubiquitous information systems, designing systems which permit complex data processing, and describing computational models suitable for data processing in these complex new environments.

Data processing in ubiquitous information systems vastly extends the prior art of distributed computing, because ubiquitous information systems are very different from the distributed systems of the nineties. Failure in peer-to-peer and grid systems, for instance, is not some rare event which needs to be recovered from but rather a regular event occurring several times per second, or minute. Therefore, many of the methods used in distributed computing has to be reevaluated and modified. Some -- e.g., global synchronization points -- might need to be abandoned altogether.

The research of data processing in various ubiquitous information systems has, in recent years, been carried on in the different communities associated with each such system. This workshop aims to put data processing at the center. Bringing together researchers from the many disciplines of ubiquitous information systems will foster a deeper understanding of the main issues confronting us in these new and exciting computational environment. . A consistent picture of the difficulties of this special environment would also be instrumental in directing the community towards promising architectures and solutions.

Topic of Interest include but are not limited to:

- Algorithms for ubiquitous data processing
- Ubiquitous Data fusion
- Ubiquitous Data cleansing
- Middleware for ubiquitous data processing
- Grid-based solutions for ubiquitous data management
- Architectures for ubiquitous data processing
- Simulation and evaluation of ubiquitous data processing algorithms
- Fault tolerance in ubiquitous data processing
- Ubiquitous agent-based computation
- Web Service for ubiquitous data processing
- Workflow management in ubiquitous environments
- Correctness and coherence models for ubiquitous data