Thursday, August 25

8:00-8:45  Registration
8:45-9:00  HDMS04 Opening
9:00-10:00  Invited Talk: Data-Oriented Middleware *The Internet meets Databases*
            Yannis Papakonstantinou
10:00-10:30  Coffee Break
10:30-12:30  Paper Session 1: Advanced Query Processing
              (4 full papers)
              Studying Constrained Query Personalization Problems
              *Georgia Koutrika, Yannis Ioannidis*
              Approximate Top-k Query Algorithms over Widely Distributed Data Sources
              *Peter Triantafillou, Sebastian Michel, Gerhard Weikum*
              Evaluating Motion Pattern Queries Using Conjoint Spatio-Temporal Predicates
              *Marios Hadjieleftheriou, George Kollios, Petko Bakalov, Vassilis Tsotras*
              Scheduling Multiple Continuous Queries to Improve QoD
              *Mohamed A. Sharaf, Alexandros Labrinidis, Panos K. Chrysanthis, Kirk Pruhs*
12:30-14:00  Lunch
14:00-16:00  Paper Session 2: Data Warehouses and Data Mining
              (4 full papers)
              Logical Optimization of ETL Workflows
              *Alkis Simitsis, Panos Vassiliadis, Timos Sellis*
              Relational Methods for Efficient Analytical Processing
              *Konstantinos Morfonios, Yannis Ioannidis*
              Less is More: How to Tame a Very Large ER Diagram
              *Yannis Tzitzikas, Jean-Luc Hainaut*
              Subspace Clustering of High Dimensional Data
              *Dimitris Papadopoulos, Carlotta Domeniconi, Dimitrios Gunopulos, Sheng Ma*
16:00-17:15  Paper Session 3: Semistructured Data and the Semantic Web
              (1 full + 3 short papers)
              Containment and Minimization of RDF/S Query Patterns
              *Giorgos Serfiotis, Ioanna Koffina, Val Tannen*
              Semantic-based Querying of Tree-Structured Data
              *Dimitri Theodoratos, Theodore Dalamagas, Antonis Koufopoulo*
              Semantic User Preference Descriptions in MPEG-7/21
              *Chrisa Tsinaraki, Stavros Christodoulakis*
              Building Community Web Directories with Probabilist Latent Semantic Analysis
              *Dimitris Pierrakos, Georgios Paliouras*
17:15-17:45  Coffee Break
17:45-19:15  Invited Tutorial: Data Stream Query Processing
              *Nick Koudas*

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Friday, August 26

9:00-10:30  
**Paper Session 4: Peer-to-Peer Systems**  
(2 full + 2 short papers)
- Replication, Load Balancing and Efficient Range Query Processing in DHTs  
  Theoni Pitoura, Nikos Ntarmos, Peter Triantafillou
- Publish/Subscribe Functionality in IR Environments using Structured Overlay Networks  
  Christos Tryfonopoulos, Stratos Idreos, Manolis Koubarakis
- Efficient Query Routing in RDF/S schema-based P2P Systems  
  Lefteris Sidirourgos, George Kokkinidis, Theodore Dalamagas
- Musical Retrieval in P2P Networks under the warping distance  
  Ioannis Karydis, Alexandros Nanopoulos, Apostolos Papadopoulos, Yannis Manolopoulos

10:30-11:00  
**Coffee Break**

11:00-12:30  
**Invited Tutorial: Database Architectures for New Hardware**  
Anastassia Ailamaki

12:30-14:00  
**Lunch**

14:00-16:15  
**Paper Session 5: Sensor Networks, Continuous Queries and Synopses**  
(4 full + 1 short papers)
- Efficient Query Processing in Sensor Networks  
  Antonios Deligiannakis, Yannis Kotidis
- Dynamic Sharing of Data and Work Across Queries  
  Stavros Harizopoulos, Vladislav Shkapenyuk, Anastassia Ailamaki
- Single-Pass, Low-Maximum-Error Wavelet Synopses  
  Panagiotis Karras, Nikos Mamoulis
- A Fast Approximation Scheme for Probabilistic Wavelet Synopses  
  Antonios Deligiannakis, Minos Garofalakis
- Approximate Answers for XML Queries with Range Predicates  
  Alkis Polyzotis, Minos Garofalakis

16:15-17:15  
**Doctoral Forum**  
4 (PhD) papers
- Foundations of Preference-based Queries  
  Periklis P. Georgiadis
- Methods for Retrieval and Analysis of Symbolic and Acoustic Music Databases  
  Ioannis Karydis
- Foundations of Online Analytical Processing  
  Konstantinos Morfonios
- Enabling Dynamic-Content Front-end Web Caching  
  Manolis Veliskakis

17:15-17:45  
**Coffee Break**

17:45-19:15  
**Panel: Undergraduate/Graduate Studies in Data Management**  
Michalis Hatzopoulos