

## SEBD 2007 Programme

*Sunday, 17 June 2007*

- 14:30 - 16:00 TUTORIAL: *Michael May (Department Knowledge Discovery, Fraunhofer Institute of Autonomous Intelligent Systems, Sankt Augustin, Germany)*  
(Chair: *Donato Malerba*)  
Geographic and Spatial Data Mining
- 16:00 - 16:25 *Coffee Break*
- 16:25 - 18:00 TUTORIAL: *Michael May*  
Geographic and Spatial Data Mining
- 19:00 - 20:00 *Welcome Party*

**Monday, 18 June 2007**

08:30 - 08:50 *Registration*

08:50 - 09:00 *Opening Session:*

*Letizia Tanca, Donato Malerba, Michelangelo Ceci*

09:00 - 10:00 **INVITED TALK:** *Karl Aberer*

*(Chair: Donato Malerba)*

Smart Earth: From Pervasive Observation over Emergent Understanding to Trusted Information

**DATA STREAM PROCESSING**

*(Chair: Elena Baralis)*

10:00 - 10:15 Query Optimization for wireless sensor network databases in the MadWise system

*Giuseppe Amato, Paolo Baronti, and Stefano Chessa*

10:15 - 10:30 Online Distribution Estimation for Streaming Data: Framework and Applications

*Themis Palpanas, Vana Kalogeraki, and Dimitrios Gunopulos*

**SECURITY POLICIES**

*(Chair: Claudia Diamantini)*

10:30 - 10:50 Un Protocollo di Sicurezza contro le Vulnerabilità Derivanti da Software di Firma non Trusted

*Francesco Buccafurri and Gianluca Lax*

10:50 - 11:05 Beyond Anonymity in Location Based Services

*Linda Pareschi e Claudio Bettini*

11:05 - 11:30 *Coffee Break*

**DATA MINING AND KNOWLEDGE DISCOVERY (1)**

*(Chair: Floriana Esposito)*

11:30 - 11:50 Inducing Multi-Target Model Trees in a Stepwise Fashion

*Annalisa Appice and Saso Dzeroski*

11:50 - 12:10 KDDBroker: Description and Discovery of KDD Services

*Jessica Cellini, Claudia Diamantini, and Domenico Potena*

12:10 - 12:25 Towards Constraint-Based Subgraph Mining

*Michele Berlingerio, Francesco Bonchi, and Fosca Giannotti*

12:25 - 12:40 On Homogeneity Evaluation and Seed Selection in Clustering Relational Data

*Antonio Varlaro, Annalisa Appice, Antonietta Lanza, and Antonio Fittipaldi*

**LOGIC AND DATABASES**

*(Chair: Luca Cabibbo)*

12:40 - 12:55 Containment of Conjunctive Object Meta-Queries

*Andrea Calì and Michael Kifer*

12:55 - 13:10 Exploiting Preference Rules for Querying Databases

*Sergio Greco, Cristian Molinaro, and Francesco Parisi*

13:10 - 14:30 *Lunch Break*

**SPATIAL DATABASES AND GEOGRAPHICAL INFORMATION SYSTEMS**

*(Chair: Tiziana Catarci)*

14:30 - 14:50 Uno Strumento Web di Esplorazione Interattiva Multidimensionale dei Dati Geo-Riferiti

*Sonia Fernandes Silva and Paolo Menicori*

14:50 - 15:10 Tecnologie Cognitive nei Sistemi per la Modellistica Geo-spaziale

*Alberto Gemelli, Claudia Diamantini, and Domenico Potena*

15:10 - 15:30 ChronoGeoGraph: an Expressive Spatio-Temporal Conceptual Model

*Donatella Gubiani and Angelo Montanari*

## QUERY PROCESSING AND OPTIMIZATION

(Chair: Paolo Tiberio)

15:30 - 15:45 Query Optimisation for Web Data Sources: Minimisation of the Number of Accesses

*Andrea Calì, Davide Martinenghi, and Domenico Carbotta*

15:45 - 16:00 Conditional Preferences: A New Semantics for Database Queries

*Paolo Ciaccia*

16:00 - 16:25 *Coffee Break*

## MULTIMEDIA DATABASES, INFORMATION RETRIEVAL AND DIGITAL LIBRARIES

(Chair: Maristella Agosti)

16:25 - 16:45 Musifind: a System for the Automatic Identification of Music Works

*Nicola Orio*

16:45 - 17:05 Implementing BRICKS, a Digital Library Management System

*Nicola Aloia, Cesare Concordia, and Carlo Meghini*

17:05 - 17:20 Towards an Effective Semi-Automatic Technique for Image Annotation

*Ilaria Bartolini and Paolo Ciaccia*

17:20 - 17:35 Towards a Definition of an Image Ontology

*Antonio Penta, Antonio Picariello, and Letizia Tanca*

## DEMO PRESENTATION

(Chair: Michelangelo Ceci)

17:35 - 18:00 *Demo presentations (3 minutes for each presentation)*

18:00 - 19:45 **DEMO SESSION**

(1) Distributed Information Retrieval and Automatic Identification of Music Works in SAPIR

*Maristella Agosti, Emanuele Di Buccio, Giorgio Maria Di Nunzio, Nicola Ferro, Massimo Melucci, Riccardo Miotto, and Nicola Orio*

(2) Simultaneous Previews for Time Series Forecasting

*Paolo Buono*

(3) Analysing Multidimensional Data with a Visualization Tool

*Paolo Buono and Maria Francesca Costabile*

(4) DB2OWL : A Tool for Automatic Database-to-Ontology Mapping

*Nadine Cullot, Raji Ghawi, and Kokou Yétongnon*

(5) A Tool for the Visual Synthesis and the Logical Translation of Spatio-Temporal Conceptual Schemas

*Donatella Gubiani and Angelo Montanari*

(6) Disambiguation of Structure-Based Information in the STRIDER System

*Federica Mandreoli, Riccardo Martoglia, and Enrico Ronchetti*

(7) Ontology-based Data Access with MASTRO

*Antonella Poggi and Marco Ruzzi*

20:00 - 23:30 *Guided excursion and Free Dinner in Ostuni (BR)*

**Tuesday, 19 June 2007**

- 09:00 - 10:00 **INVITED TALK: Michael Kifer**  
(Chair: *Letizia Tanca*)  
Semantic Web: Schism of the Languages  
**DATA MINING AND KNOWLEDGE DISCOVERY (2)**  
(Chair: *Giuseppe Manco*)
- 10:00 - 10:20 A Fast Partial Memory Approach to Incremental Learning through an Advanced Data Storage Framework  
*Marenglen Biba, Stefano Ferilli, Floriana Esposito, Nicola Di Mauro, and Teresa M.A. Basile*
- 10:20 - 10:35 An Information-Theoretic Framework for High-Order Co-Clustering of Heterogeneous Objects  
*Gianluigi Greco, Antonella Guzzo, and Luigi Pontieri*
- 10:35 - 10:50 RADAR: Research of Anomalous Data through Association Rules  
*Giulia Bruno, Paolo Garza, Elisa Quintarelli, e Rosalba Rossato*
- 10:50 - 11:05 A Data Mining Methodology for Anomaly Detection in Network Data: Choosing System-Defined Decision Boundaries  
*Costantina Caruso*
- 11:05 - 11:30 *Coffee Break*  
**LOGIC AND DATABASES**  
(Chair: *Andrea Cali*)
- 11:30 - 11:50 Approximate Query Answering and Ranking for Semantic Knowledge Bases  
*Nicola Fanizzi, Claudia d'Amato, and Floriana Esposito*
- 11:50 - 12:05 Query Answering in Expressive Variants of DL-Lite  
*Alessandro Artale, Diego Calvanese, Roman Kontchakov and Michael Zakharyashev*
- 12:05 - 12:20 Extending Datalog for Matchmaking in P2P E-Marketplaces  
*Azzurra Ragone, Umberto Straccia, Tommaso Di Noia, Eugenio Di Sciascio, e Francesco M. Donini*
- 12:20 - 12:35 Ontology-based Database Access  
*Diego Calvanese, Giuseppe De Giacomo, Domenico Lembo, Maurizio Lenzerini, Antonella Poggi, and Riccardo Rosati*
- TRANSACTION AND WORKFLOW MANAGEMENT**  
(Chair: *Valeria de Antonellis*)
- 12:35 - 12:50 Generating Extended Conceptual Schemas from Business Process Models  
*Marco Brambilla, Jordi Cabot, and Sara Comai*
- 12:50 - 13:10 Autonomic Deadlock Prevention in Self-Managing Databases  
*Di Giulio Domenico*
- 13:10 - 14:30 *Lunch Break*  
**DATA INTEGRATION, MAPPING AND TRANSFORMATION**  
(Chair: *Silvana Castano*)
- 14:30 - 14:50 Translating Context Data in Adaptive Web Applications  
*Roberto De Virgilio and Riccardo Torlone*
- 14:50 - 15:05 A New Type of Metadata for Querying Data Integration Systems  
*Sonia Bergamaschi, Francesco Guerra, Mirko Orsini, and Claudio Sartori*
- 15:05 - 15:20 On the Schema Exchange Problem  
*Paolo Papotti and Riccardo Torlone*

## TEMPORAL AND SEQUENCE MINING

(Chair: Fabio A. Schreiber)

15:20 - 15:40 Accurate and Fast Similarity Detection in Time Series  
*Francesco Gullo, Giovanni Ponti, Andrea Tagarelli, and Sergio Greco*

15:40 - 15:55 Hiding Sequences  
*Osman Abul, Maurizio Atzori, Francesco Bonchi, and Fosca Giannotti*

15:55 - 16:20 *Coffee Break*

## DATABASES AND THE SEMANTIC WEB

(Chair: Maurizio Lenzerini)

16:20 - 16:35 Exploiting Peer Ontologies for Semantic Query Propagation  
*Silvana Castano, Alfio Ferrara, and Stefano Montanelli*

16:35 - 16:50 Checking e-Service Consistency Using Description Logics  
*Luigi Dragone*

16:50 - 17:05 Constraint Hardness for Modelling, Matching and Ranking Semantic Web Services  
*Claudia d'Amato*

17:05 - 17:15 **STUDENT AWARD**

(Chair: Maurizio Lenzerini)

17:15 - 20:00 *Excursion*

- *Wine tasting at the Social Wine-cellar in Locorotondo (BA)*

- *Guided excursion in Martina Franca (TA)*

20:00 - 21:00 *Show at Zoosafari dolphinarium in Fasano (BR)*

21:00 - 23:30 *Social Dinner at "Il Coccodrillo" restaurant – Zoosafari of Fasano (BR)*

**Wednesday, 20 June 2007**

**DATA WAREHOUSE, OLAP AND DATA MINING**

*(Chair: Sonia Bergamaschi)*

- 09:00 - 09:20 Trajectory Data Warehouses: Design Issues and Use Cases  
*Salvatore Orlando, Renzo Orsini, Alessandra Raffaetà, Alessandro Roncato, and Claudio Silvestri*
- 09:20 - 09:35 Advanced OLAP Visualization of Multidimensional Data Cubes: A Semantics-Driven Compression Approach  
*Alfredo Cuzzocrea, Vincenzo Russo, Domenico Saccà, and Paolo Serafino*
- 09:35 - 09:55 A Hierarchical Probabilistic Model for Co-Clustering High-Dimensional Data  
*Gianni Costa, Francesco Folino, Giuseppe Manco, and Riccardo Ortale*

**RESOURCE DISCOVERY, INTEROPERABILITY AND ONTOLOGIES, WEB SERVICES**

*(Chair: Giansalvatore Mecca)*

- 09:55 - 10:15 Service Matching and Discovery in P2P Semantic Community  
*Devis Bianchini, Valeria De Antonellis, Michele Melchiori, and Denise Salvi*
- 10:15 - 10:35 Web Service Discovery at Process-level Based on Semantic Annotation  
*Francesco Pagliarecci, Marco Pistore, Luca Spalazzi, and Paolo Traverso*
- 10:35 - 10:50 Semantic Web Service Composition in the NeP4B Project: Challenges and Architectural Issues  
*Federica Mandreoli, Wilma Penzo, and Antonio Massimiliano Perdichizzi*
- 10:50 - 11:05 Modellazione della QoS in Ambienti Web-Service con Applicazioni di Video Streaming  
*Francesco Buccafurri, Luca Console, Pasquale De Meo, Maria Grazia Fugini, Anna Goy, Gianluca Lax, Pasquale Lops, Stefano Modafferi, Barbara Pernici, Claudia Picardi, Domenico Redavid, Giovanni Semeraro, and Domenico Ursino*

11:05 - 11:30 *Coffee Break*

**SEMI-STRUCTURED, XML, AND WEB DATA**

*(Chair: Riccardo Torlone)*

- 11:30 - 11:45 XML Type Projection: A Maximum Flow Approach  
*Dario Colazzo and Carlo Sartiani*
- 11:45 - 12:00 Clustering Web and Desktop Searches  
*Giansalvatore Mecca, Salvatore Raunich, and Alessandro Pappalardo*

**KNOWLEDGE DISCOVERY IN BIOLOGICAL DATABASES**

*(Chair: Domenico Saccà)*

- 12:00 - 12:20 Mining Time-series Sequences of Reactions for Biologically Active Patterns in Metabolic Pathways  
*Marenglen Biba, Floriana Esposito, Stefano Ferilli, Nicola Di Mauro, and Teresa M.A. Basile*
- 12:20 - 12:40 Finding Generalized Closed Frequent Itemsets for Mining Non Redundant Association Rules  
*Corrado Loglisci, Margherita Berardi, Saverio D'Alessandro, and Pietro Leo*
- 12:40 - 12:55 L-SME: A Tool for the Efficient Discovery of Loosely Structured Motifs in Biological Data  
*Fabio Fassetti, Gianluigi Greco, and Giorgio Terracina*

12:55 - 13:10 *Closing Session*

13:10 - 14:30 *Lunch Break*

14:30 - **PROJECT WORKSHOPS (TOCAL.IT)**