

Preliminary Program

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		25/06/2017 (Sunday)	26/06/2017 (Monday)	27/06/2017 (Tuesday)	28/06/2017 (Wednesday)	29/06/2017 (Thursday)	
09:00	10:00		INVITED TALK (Ronal Fagin)	INVITED TALK (Serge Abiteboul)	INVITED TALK (Carlo Zaniolo)	INVITED TALK (Floris Geerts)	
10:00	10:45		Research - Session 1 (Incomplete and uncertain data)	Research - Session 4 (Data Quality)	Research - Session 7 (Ontologies and Description Logics)	Research - Session 10 (Open Data, Business Process)	
10:45	11:15		Coffe Break	Coffe Break	Coffe Break	Coffe Break	
11:15	13:00		Book Papers presentation - Session 1 (7 talks)	Book Papers presentation - Session 2 (7 talks)	Book Papers presentation - Session 3 (7 talks)	Book Papers presentation - Session 4 (7 talks)	
13:00	15:00		Lunch	Lunch	Lunch	Lunch	
15:00	16:30	Tutorial 1 (Sihem Amer-Yahia)	Research - Session 2 (Web and Social Networks)	Research - Session 5 (Big Data and HPC)	Research - Session 8 (Data Mining)		
16:30	16:45	Coffe Break	Coffe Break	Coffe Break	Coffe Break		
16:45	18:00	Tutorial 2 (Pierangela Samarati)	Research - Session 3 (Data Extraction and Retrieval)	Research - Session 6 (Bioinformatics)	Research - Session 9 (Logic and Graph Databases)		
18:00	18:15			Free Time			
18:15	18:30	Free Time	Free Time	Guided Tour @ Parco Scolacium	Free Time		
18:30	18:45						
18:45	19:00		Soccer Match				
19:00	19:15						
19:15	19:30						
19:30	19:45			Free Time			
19:45	20:00						
20:00	00:00	Welcome Dinner	Excursion to Catanzaro Lido	Social Dinner and Concert	Farewell Party on the beach		

Research – Session 1 - Incomplete and uncertain data

Chair: Letizia Tanca

- *Approximation Algorithms for Computing Certain Answers over Incomplete Databases*, Sergio Greco, Cristian Molinaro and Irina Trubitsyna
- *Decomposing and pruning primary key violations from large data sets (discussion paper)*, Marco Manna, Francesco Ricca and Giorgio Terracina
- *Interactive Data Repairing: the FALCON Dive*, Enzo Veltri, Donatello Santoro, Giansalvatore Mecca, Paolo Papotti, Jian He, Gouliang Li and Nan Tang

Research – Session 2 – Web and Social Networks

Chair: Iliaria Bartolini

- *A Model for Handling Multiple Social Networks and its Implementation*, Francesco Buccafurri, Gianluca Lax, Serena Nicolazzo and Antonino Nocera
- *Exposing the Deep Web in the Linked Data Cloud*, Andrea Cali, Giuseppe De Santis, Tommaso Di Noia and Nicola Mincuzzi
- *Googling the Deep Web (Extended abstract)*, Andrea Cali, Davide Martinenghi and Riccardo Torlone
- *An Influence Maximization based approach to the Engagement of Silent Users in Online Social Networks*, Roberto Interdonato, Chiara Pulice and Andrea Tagarelli
- *A Social Network Analysis based approach to deriving knowledge about research scenarios in a set of countries*, Paolo Lo Giudice, Paolo Russo and Domenico Ursino
- *Ensuring the Integrity of Wikipedia: A Data Science Approach*, Francesca Spezzano

Research – Session 3 - Data Extraction and Retrieval

Chair: Giansalvatore Mecca

- *Knowledge-based access to art collections: the KIRA system*, Flora Amato, Vincenzo Moscato, Antonio Picariello and Giancarlo Sperli
- *In Codice Ratio: Scalable Transcription of Historical Handwritten Documents*, Serena Ammirati, Donatella Firmani, Marco Maiorino, Paolo Merialdo, Elena Nieddu and Andrea Rossi
- *Keyword-based access to relational data: To reproduce, or to not reproduce?*, Alex Badan, Luca Benvegnù, Matteo Biasetton, Giovanni Bonato, Alessandro Brighente, Stefano Marchesin, Alberto Minetto, Leonardo Pellegrina, Alberto Purpura, Riccardo Simionato, Matteo Tessarotto, Andrea Tonon and Nicola Ferro
- *Collective Intelligence support for data service exploration and retrieval*, Devis Bianchini, Valeria De Antonellis and Michele Melchiori
- *Effects of Semantic Analysis on Named-Entity Recognition with Conditional Random Fields*, Antonio Ciriello, Andrea Cappelli, Sonia Bergamaschi and Marco Varone

Research – Session 4 - Data Quality

Chair: Francesco Buccafurri

- *Labour Market Intelligence for Supporting Decision Making*, Roberto Boselli, Mirko Cesarini, Fabio Mercurio and Mario Mezzanzanica
- *Tell the student: evidence-based advantages of prerequisites*, Marco Cameranesi, Claudia Diamantini, Laura Genga and Domenico Potena
- *Exploiting multiple heterogeneous data sets for improving geotagging quality*, Laura Di Rocco, Roberto Marzocchi, Tiziano Cosso, Barbara Catania and Giovanna Guerrini

Research – Session 5 - Big Data and HPC

Chair: Riccardo Torlone

- *Comparing Performances of Big Data Stream Processing Platforms with RAM3S*, Iliaria Bartolini and Marco Patella

- *Efficient High Performance Computing by user networks*, Nunziato Cassavia, Sergio Flesca, Michele Ianni, Elio Masciari, Giuseppe Papuzzo and Chiara Pulice
- *Effectively and Efficiently Supporting Grid and Cloud Integration via a DBMS-based Framework*, Alfredo Cuzzocrea, Osvaldo Gervasi, Mirko Mariotti, Flavio Vella and Alessandro Costantini
- *Schema Profiling of Document Stores*, Enrico Gallinucci, Matteo Golfarelli and Stefano Rizzi
- *Trusted Volunteer Computing*, Michele Ianni and Elio Masciari
- *A cloud based framework for Emergency Management: experiences in Calabria Region*, Giuseppe Tradigo, Rocco Picarelli, Luciano Caroprese, Paolo Cappadone, Ester Zumpano, Andrea Tagarelli, Angelo Furfaro, Carlo Tansi, Pierangelo Veltri and Pietro Hiram Guzzi

Research – Session 6 - Bioinformatics

Chair: Davide Martinenghi

- *eMiRo: an ontology-based system for clinical data integration and analysis*, Pietro Cinaglia, Pierangelo Veltri and Mario Cannataro
- *A Novel Algorithm for Local Alignment of Protein Interaction Networks: MODULA*, Pietro Hiram Guzzi, Pierangelo Veltri, Swarup Roy and Jugal Kalita
- *Usage of network analysis to investigate Periodic Sharp Wave Complexes in EEGs of patients with sporadic CJD*, Paolo Lo Giudice, Nadia Mammone, Francesco Carlo Morabito, Domenico Ursino, Umberto Aguglia, Vittoria Cianci, Edoardo Ferlazzo and Sara Gasparini

Research – Session 7 - Ontologies and Description Logics

Chair: Francesco Scarcello

- *A Decidable Very Expressive n-ary Description Logic for Database Applications (extended abstract)*, Alessandro Artale, Enrico Franconi, Rafael Peñaloza and Francesco Sportelli
- *Querying OWL 2 QL ontologies under the SPARQL Metamodeling Semantics Entailment Regime*, Gianluca Cima, Giuseppe De Giacomo, Maurizio Lenzerini and Antonella Poggi
- *Handling Updates in Ontology-based Data Access*, Giuseppe De Giacomo, Domenico Lembo, Xavier Oriol, Domenico Fabio Savo, Ernest Teniente.

Research – Session 8 – Data Mining

Chair: Annalisa Appice

- *TourMiner: Effective and Efficient Clustering Big Mobile Social Data for Supporting Advanced Analytics Tools*, Gloria Bordogna, Alfredo Cuzzocrea, Luca Frigerio, Giuseppe Psaila and Danilo Amendola
- *A genetic algorithm to discover relaxed functional dependencies from data*, Loredana Caruccio, Vincenzo Deufemia and Giuseppe Polese
- *Prompting the data transformation activities for cluster analysis on collections of documents*, Tania Cerquitelli, Evelina Di Corso, Francesco Ventura and Silvia Chiusano
- *Forecasting via Distributed Density-Based Clustering*, Roberto Corizzo, Gianvito Pio, Michelangelo Ceci and Donato Malerba
- *How Planning Techniques Can Help Process Mining: The Conformance-Checking Case*, Massimiliano de Leoni and Andrea Marrella
- *The Projective Clustering Ensemble Problem for Advanced Data Clustering*, Carlotta Domeniconi, Francesco Gullo and Andrea Tagarelli

Research – Session 9 - Logic and Graph Databases

Chair: Antonella Poggi

- *Querying finite or arbitrary models? No matter! Existential rules may rely on both once again (discussion paper)*, Giovanni Amendola, Nicola Leone and Marco Manna
- *A compiler for stratified Datalog programs: preliminary results*, Bernardo Cuteri and Francesco Ricca
- *A Model for Fine-Grained Data Citation*, Susan Davidson, Daniel Deutch, Tova Milo and Gianmaria Silvello

- *Exploiting Recurrent Retrieval Needs in Querying Heterogeneous and Dynamic Graph Dataspaces*, Francesco De Fino, Barbara Catania and Giovanna Guerrini
- *Structural Characterization of Graph Navigational Languages*, Valeria Fionda and Giuseppe Pirrò

Research – Session 10 - Open Data, Business Process

Chair: Filippo Furfaro

- *Process Conformance Checking by Relaxing Data Dependencies*, Montserrat Estañol, Mirjana Mazuran, Xavier Oriol, Letizia Tanca and Ernest Teniente
- *A WSLA-Extension Supporting Service and Contract Composition Modelling*, Antonella Longo, Marco Zappatore, Mario Bochicchio, Lucia Vaira and Alfredo Cuzzocrea
- *Chatbots as a Novel Access Method for Government Open Data*, Simone Porreca, Francesco Leotta, Massimo Mecella and Tiziana Catarci

Book Chapters – Session 1

Chair: Bergamaschi Sonia

- *The Visual Side of the Data* . Marco Angelini, Tiziana Catarci, Massimo Mecella and Giuseppe Santucci
- *Digital Libraries: From Digital Resources to Challenges in Scientific Data Sharing and Re-Use*. Maristella Agosti, Nicola Ferro and Gianmaria Silvello
- *From Data Integration to Big Data Integration* . Sonia Bergamaschi, Domenico Beneventano, Federica Mandreoli, Riccardo Martoglia, Francesco Guerra, Mirko Orsini, Laura Po, Maurizio Vincini, Giovanni Simonini, Song Zhu, Luca Gagliardelli and Luca Magnotta
- *Matching Techniques for Data Integration and Exploration: From Databases to Big Data*. Silvana Castano, Alfio Ferrara and Stefano Montanelli
- *25+ Years of Query Processing - From a Single, Stored Data Set to Big Data (and Beyond)*. Barbara Catania and Giovanna Guerrini
- *From Star Schemas to Big Data: 20+ Years of Data Warehouse Research*. M. Golfarelli and S. Rizzi
- *A Short Account of Techniques for Assisting Users in Mastering Big Data*. Davide Martinenghi, Elisa Quintarelli, Fabio A. Schreiber and Letizia Tanca

Book Chapters – Session 2

Chair: Fabio Schreiber

- *Big Data Security and Privacy*. Elisa Bertino and Elena Ferrari
- *Not Only Databases: Social Data and Cybersecurity Perspective* . Francesco Buccafurri, Gianluca Lax, Serena Nicolazzo and Antonino Nocera
- *Confidentiality Protection in Large Databases*. Sabrina De Capitani di Vimercati, Sara Foresti, Giovanni Livraga, Stefano Paraboschi and Pierangela Samarati
- *Database Community and Health Related Data: Experiences Through the Last Decade*. Pietro H. Guzzi, Giuseppe Tradigo and Pierangelo Veltri
- *From Rome to Milan, from Appennines to Alps, from Data to Big Data* . Carlo Batini
- *How Data Mining and Machine Learning Evolved from Relational Data Base to Data Science*. G. Amato, L. Candela, D. Castelli, A. Esuli, F. Falchi, C. Gennaro, F. Giannotti, A. Monreale, M. Nanni, P. Pagano, L. Pappalardo, D. Pedreschi, F. Pratesi, F. Rabitti, S. Rinzivillo, G. Rossetti, S. Ruggieri, F. Sebastiani and M. Tesconi
- *Data Mining in Databases: Languages and Indices*. Elena Baralis, Tania Cerquitelli, Silvia Chiusano and Rosa Meo

Book Chapters – Session 3

Chair: Maurizio Lenzerini

- *A Tour from Regularities to Exceptions* . Fabrizio Angiulli, Fabio Fassetti, Luigi Palopoli and Domenico Ursino
- *Relational Data Mining in the Era of Big Data*. Annalisa Appice, Michelangelo Ceci and Donato Malerba

- *20+ Years of Analytics on Complex Data: Impact, Issues, Challenges and Contributions*. Stefano Basta, Giuseppe Manco, Elio Masciari and Luigi Pontieri
- *Services Discovery and Recommendation for Multi-datasource Access: Exploiting Semantic and Social Technologies*. Devis Bianchini, Valeria De Antonellis and Michele Melchiori
- *Data Semantics Meets Knowledge Discovery in Databases*. Claudia Diamantini, Domenico Potena and Emanuele Storti
- *Analysing Trajectories of Mobile Users: From Data Warehouses to Recommender Systems*. Franco Maria Nardini, Salvatore Orlando, Raffaele Perego, Alessandra Raffaetà, Chiara Renso and Claudio Silvestri
- *Multimedia, Similarity, and Preferences: Adding Flexibility to Your Information Needs*. Ilaria Bartolini, Paolo Ciaccia and Marco Patella

Book Chapters – Session 4

Chair: Valeria De Antonellis

- *Dealing with Inconsistency in Databases: An Overview*. Marco Calautti, Luciano Caroprese, Bettina Fazzinga, Sergio Flesca, Filippo Furfaro, Sergio Greco, Cristian Molinaro, Francesco Parisi, Andrea Pugliese, Domenico Saccà, Irina Trubitsyna and Ester Zumpano
- *First-Order Ontology Mediated Database Querying via Query Reformulation*. Diego Calvanese and Enrico Franconi
- *Using Ontologies for Semantic Data Integration*. Giuseppe De Giacomo, Domenico Lembo, Maurizio Lenzerini, Antonella Poggi and Riccardo Rosati
- *Schema Mappings: From Data Translation to Data Cleaning*. Giansalvatore Mecca, Paolo Papotti and Donatello Santoro
- *Data Modeling Across the Evolution of Database Technology*. Paolo Atzeni, Luca Cabibbo and Riccardo Torlone
- *Modeling, Modeling, Modeling: From Web to Enterprise to Crowd to Social*. Marco Brambilla and Stefano Ceri
- *Structural Decomposition Methods: Key Notions and Database Applications*. G. Greco, N. Leone, F. Scarcello and G. Terracina
- *Multimedia Data Modeling and Management*. Vincenzo Moscato and Antonio Picariello

Invited Talk Sessions Chairs

- Monday Sergio Greco
- Tuesday Domenico Saccà
- Wednesday Elio Masciari
- Thursday Sergio Flesca