## OVERVIEW

<table>
<thead>
<tr>
<th>Time</th>
<th>Tuesday 2, July</th>
<th>Wednesday 3, July</th>
<th>Thursday 4, July</th>
<th>Friday 5, July</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:20</td>
<td>Registration</td>
<td>08:20</td>
<td>Registration</td>
<td>08:20</td>
</tr>
<tr>
<td>08:40</td>
<td>Opening Session</td>
<td>08:40</td>
<td>Registration</td>
<td>08:40</td>
</tr>
<tr>
<td>09:00</td>
<td>VS Subrahmanian (Invited Speech)</td>
<td>09:00</td>
<td>09:00</td>
<td>09:00</td>
</tr>
<tr>
<td>09:20</td>
<td>09:20</td>
<td>09:40</td>
<td>09:40</td>
<td>08:40</td>
</tr>
<tr>
<td>09:40</td>
<td>09:40</td>
<td>09:40</td>
<td>09:40</td>
<td>09:40</td>
</tr>
<tr>
<td>10:00</td>
<td>Flexible Database Management and Querying</td>
<td>10:00</td>
<td>10:00</td>
<td>10:00</td>
</tr>
<tr>
<td>10:20</td>
<td>10:20</td>
<td>10:40</td>
<td>10:40</td>
<td>10:40</td>
</tr>
<tr>
<td>10:40</td>
<td>10:40</td>
<td>11:00</td>
<td>11:00</td>
<td>11:00</td>
</tr>
<tr>
<td>11:00</td>
<td>11:00</td>
<td>11:20</td>
<td>11:20</td>
<td>11:20</td>
</tr>
<tr>
<td>11:20</td>
<td>11:20</td>
<td>11:40</td>
<td>11:40</td>
<td>11:40</td>
</tr>
<tr>
<td>11:40</td>
<td>11:40</td>
<td>12:00</td>
<td>12:00</td>
<td>12:00</td>
</tr>
<tr>
<td>12:00</td>
<td>12:00</td>
<td>12:20</td>
<td>12:20</td>
<td>12:20</td>
</tr>
<tr>
<td>12:20</td>
<td>12:20</td>
<td>12:40</td>
<td>12:40</td>
<td>12:40</td>
</tr>
<tr>
<td>12:40</td>
<td>12:40</td>
<td>13:00</td>
<td>13:00</td>
<td>13:00</td>
</tr>
<tr>
<td>13:00</td>
<td>13:00</td>
<td>13:20</td>
<td>13:20</td>
<td>13:20</td>
</tr>
<tr>
<td>13:40</td>
<td>13:40</td>
<td>14:00</td>
<td>14:00</td>
<td>14:00</td>
</tr>
<tr>
<td>14:00</td>
<td>14:00</td>
<td>14:20</td>
<td>14:20</td>
<td>14:20</td>
</tr>
<tr>
<td>14:20</td>
<td>14:20</td>
<td>14:40</td>
<td>14:40</td>
<td>14:40</td>
</tr>
<tr>
<td>14:40</td>
<td>14:40</td>
<td>15:00</td>
<td>15:00</td>
<td>15:00</td>
</tr>
<tr>
<td>15:00</td>
<td>15:00</td>
<td>15:20</td>
<td>15:20</td>
<td>15:20</td>
</tr>
<tr>
<td>15:20</td>
<td>15:20</td>
<td>15:40</td>
<td>15:40</td>
<td>15:40</td>
</tr>
<tr>
<td>15:40</td>
<td>15:40</td>
<td>16:00</td>
<td>16:00</td>
<td>16:00</td>
</tr>
<tr>
<td>16:00</td>
<td>16:00</td>
<td>16:20</td>
<td>16:20</td>
<td>16:20</td>
</tr>
<tr>
<td>16:20</td>
<td>16:20</td>
<td>16:40</td>
<td>16:40</td>
<td>16:40</td>
</tr>
<tr>
<td>16:40</td>
<td>16:40</td>
<td>17:00</td>
<td>17:00</td>
<td>17:00</td>
</tr>
<tr>
<td>17:00</td>
<td>17:00</td>
<td>17:20</td>
<td>17:20</td>
<td>17:20</td>
</tr>
<tr>
<td>17:20</td>
<td>17:20</td>
<td>17:40</td>
<td>17:40</td>
<td>17:40</td>
</tr>
<tr>
<td>19:00</td>
<td>Welcome Party</td>
<td>19:00</td>
<td>19:00</td>
<td>19:00</td>
</tr>
<tr>
<td>21:20</td>
<td>21:20</td>
<td>23:40</td>
<td>00:00</td>
<td>00:00</td>
</tr>
</tbody>
</table>
DETAILED PROGRAM

Tuesday 2, July

8:20 – 8:40 Registration

8:40 – 9:00 Opening Session - Chair: Domenico Saccà

9:00 – 10:00 Invited Talk 1: V.S. Subrahmanian, “Logic, Machine Learning, and Security”
Chair: Sergio Greco

10:00 – 11:00 Session 1: Flexible Database Management and Querying
Chair: Andrea Calì
Markus Endres, Erich Glaser, “Indexing for Skyline Computation - A Comparison Study”
Alejandro Grez, Andrea Calì, Martin Ugarte, “A Simple Data Structure for Optimal Two-Sided Planar Range Queries”
Nicola Fiorentino, Cristian Molinaro, Irina Trubitsyna. “Optimizing the Computation of Approximate Certain Query Answers over Incomplete Databases”

11:00 – 11:40 Coffee Break

11:40 – 12:40 Session 2: Ontologies & Knowledge Bases
Chair: Markus Endres
Daniele Spoladore, Atieh Mahroo, Marco Sacco, “Leveraging Ontology to enable Indoor Comfort Customization in the Smart Home”
Mirko Michele Dimartino, Andrea Calì, Alexandra Poulavassilis, Peter Wood, “Efficient Ontological Query Answering by Rewriting into Graph Queries”
Wissem Bouarroudj, Zizette Boufaida, Ladjel Bellatreche. “WeLink: A Named Entity Disambiguation Approach for a QAS over Knowledge Bases”

12:40 – 14:20 Lunch

14:20 – 16:00 Tutorial 1: Fabrizio Sebastiani, “Supervised Learning for Prevalence Estimation”
Chair: Guy De Tre

16:00 – 16:40 Coffee Break

16:40 – 17:20 Session 3: Social Networks & Social Media
Chair: Alfredo Cuzzocrea
Esteban Andrés Ríssola, Seyed Ali Bahrainian, Fabio Crestani, “Anticipating Depression based on Online Social Media Behaviour”

Mabrouka Ben-Sghaier, Wided Bakari, Mahmoud Neji, “Ar-SLoTE: A Recognizing Textual Entailment Tool for Arabic Question/Answering Systems”

19:00 – 21:30 Welcome Party (Location: Hotel Village “La Principessa” – Campora San Giovanni)

Wednesday 3, July

9:00 – 10:40 Tutorial 2: Matthias Thimm, “Algorithmic Approaches to Computational Models of Argumentation”

Chair: Gerardo Simari

10:40 – 11:20 Coffee Break

11:20 – 12:40 Session 4: Argumentation-Based Query Answering

Chair: Francesco Parisi


Bas Testerink, Daphne Odekerken, Floris Bex, “A Method for Efficient Argument-Based Inquiry”

Mario Alejandro Leiva, Gerardo Simari, Sebastian Gottifredi, Alejandro García, Guillermo Simari, “DAQAP: Defeasible Argumentation Query Answering Platform”

Gianvincenzo Alfano, “An Efficient Algorithm for Computing the Set of Semi-Stable Extensions”

12:40 – 14:20 Lunch

14:20 – 15:20 Session 5: Data Mining & Knowledge Discovery

Chair: Hasan Jamil


Nicolas Spyratos, Tsuyoshi Sugibuchi, “Data Exploration in the HIFUN Language”

15:20 – 16:00 Coffee Break

16:00 – 17:00 Session 6: Advanced Flexible Query Answering Methodologies and Techniques

Chair: Karel Gutiérrez-Batista

Zied Ben Othmane, Cyril de Runz, Amine Aït Younes, Vincent Mercelet, “Quantify the Variability of Time Series of Imprecise Data”


Thursday 4, July

9:00 – 10:00 Invited Speaker 2: Josep Domingo-Ferrer, “Personal Big Data, GDPR and Anonymization”

Chair: Troels Andreasen

10:00 – 11:00 Session 7: Flexible Query Answering Methods and Techniques

Chair: Giuseppe Psaila

Troels Andreasen, Henrik Bulskov, Per Anker Jensen, Jørgen Fischer Nilsson, “Deductive Querying of Natural Logic Bases”

Sotir Sotirov, Desislava Vankova, Valentin Vasilev and Evdokia Sotirova. “Clustering of Inter-Criteria Analysis Data Using a Health-Related Quality of Life Data”


11:00 – 11:40 Coffee Break

11:40 – 12:40 Session 8: Flexible Intelligent Information-Oriented and Network-Oriented Approaches

Chair: Alexander Alexandrov

Pablo Garcia Bringas, Iker Pastor, Giuseppe Psaila, “Can BlockChain Technology Provide Information Systems with Trusted Database? The case of HyperLedger Fabric”


Claudia Diamantini, Antonino Nocera, Domenico Potena, Emanuele Storti, Domenico Ursino, “Find the Right Peers: Building and Querying Multi-IoT Networks Based on Contexts”

12:40 – 14:20 Lunch


Chair: Qian Hu

Guy De Tre, Toon Boeckling, Yoram Timmerman, Slawomir Zadrozny, “Handling Veracity of Nominal Data in Big Data: A Multipolar Approach”
Krassimir Atanassov, Pencho Marinov, Vassia Atanassova, “Inter-Criteria Analysis with Interval-Valued Intuitionistic Fuzzy Evaluations”

Vassia Atanassova, Lyubka Doukovska, “Business Dynamism and Innovation Capability in the European Union Member States in 2018 through the Prism of Inter-Criteria Analysis”

15:20 – 16:00 Coffee Break

16:00 – 21:00 Excursion to Pizzo and Tropea

21:00 – 00:00 Banquet Dinner (Location: Restaurant “La Rada” - Vibo Marina)

Friday 5, July

9:00 – 10:00 Invited Speaker 3: Enrico Franconi, “Querying Databases with Ontologies: 17 Years Later”
Chair: Domenico Saccà

10:00 – 11:00 Session 10: Flexibility in Tools
Chair: Jochen L. Leidner

Mustafa Hajmohammed, Panagiotis Chountas, “Characterising Concept Drift: Is Ensemble Learning the Solution to the Problem?”


Elio Masciari, Domenico Saccà, Irina Trubitsyna, “An Effective System for User Queries Assistance”

11:00 – 11:40 Coffee Break

11:40 – 13:00 Session 11: Systems & Miscellanea
Chair: Sotir Sotirov

Stefania Marrara, Amir Topalovic, Marco Viviani, “Towards Flexible Energy Supply in European Smart Environments”

Eugenio Vocaturo, Ester Zumpano, Pierangelo Veltri. “On the Usefulness of Pre-Processing Step in Melanoma Detection using Multiple Instance Learning”

Daniel Pfeifer, Jochen L. Leidner, “A Brief Study on Topic Modeling for Feature Selection in Text Classification”

James Lockett, Sanith Wijesinghe, Jasper Phillips, Walter Hiranpat, Michael Schoenfeld, Phillip Marlow, Ian Gross, Matt Coarr, Justin Zymbaluk, Qian Hu, “Intelligent Voice Agent and Service (iVAS) for Interactive and Multimodal Question and Answers”

13:00 – 13:20 Closing Session – Chair: Henrik Legind

13:20 – 15:00 Lunch