Posters

- Applying Description Logic to Product Behavioural Design within Advanced CAD Systems.
  F. de Bertrand de Beuveron, A. Coulibaly
- Computing Least Common Subsumers for $\mathcal{FL}^+$. 
  S. Brandt, A.-Y. Turhan
- Reasoning about Nominals with FaCT and RACER. 
  J. Hladik
- Wine Agent: Semantic Web Testbed Application. 
  E. Hsu, D. McGuinness
- From Lexicon To Mammographic Ontology: Experiences and Lessons. 
  B. Hu, S. Dasmahapatra, N. Shadbolt
- Visualising a Description Logic Knowledge Base with DeLogViz. 
  B. Hu, N. Shadbolt
  N. Karam, M. Schneider
- Merging DAML+OIL Bio-ontologies. 
  P. Lambrix, A. Edberg, C. Manis, H. Tan
- On the Problems of Representing Least Common Subsumer and Computing Approximation in DLs. 
  C. Le Duc, N. Le Thanh
- Matchmaking Using an Instance Store: Some Preliminary Results. 
  L. Li, I. Horrocks
- Graphical Interfaces for Racer: Querying DAML+OIL and RDF Documents. 
  R. Möller, R. Cornet, V. Haarslev
- Detecting Inconsistencies between UML Models Using Description Logic. 
  R. Van Der Straeten, J. Simmonds, T. Mens

Program Committee

Carlos Areces INRIA Lorraine, France
Francesco M. Donini Univ. Tuscia, Italy
Volker Haarslev Concordia Univ., Canada
Ian Horrocks Univ. of Manchester, UK
Ralf Küsters Univ. Kiel, Germany
Patrick Lambrick Univ. Linköping, Sweden
Carsten Lutz TU Dresden, Germany
Ralf Möller Univ. Wedel, Germany
Peter Patel-Schneider Bell Labs, USA

Organizers

Diego Calvanese Univ. Roma “La Sapienza”
Giuseppe De Giacomo Univ. Roma “La Sapienza”
Enrico Franconii Univ. Bolzano/Bozen

Sponsors

Università di Roma “La Sapienza”
Free University of Bolzano/Bozen
Dip. di Informatica e Sistemistica

Centro Congressi Via Salaria
Università di Roma “La Sapienza”
Via Salaria 113
Rome, Italy
Friday, September 5

8:00 – 9:00  Registration
9:00 – 10:15  Invited Talk: John Mylopoulos
Modeling Software
10:15 – 10:45  Coffee Break
10:45 – 12:25  Applications I
  ● Reducing OWL Entailment to Description Logic Satisfiability.
    I. Horrocks, P. F. Patel-Schneider
  ● Index Selection for Embedded Control Applications using Description Logics.
    L. Stanchev, G. Weddell
  ● Rule Based Computation of Updates to Terminologies.
    S. Modgil
  ● Reasoning on UML Class Diagrams is EXPTIME-hard.
    D. Berardi, D. Calvanese, G. De Giacomo
12:25 – 14:00  Lunch
14:00 – 15:40  Standard Reasoning Services
  ● Restricted Role-value-maps in a DL with Existential Restrictions and Terminological Cycles.
    F. Baader
  ● Handling Boolean ABoxes.
    C. Areces, P. Blackburn, B. Martinez Hernandez, M. Marx
  ● Subsumption of Concepts in $\mathcal{FL}_0$ for (Cyclic) Terminologies with Respect to Descriptive Semantics is PSPACE-complete.
    Y. Kazakov, H. de Nivelle
  ● A Tableau Algorithm for $\mathcal{ALCN}(\exists, \sqsubseteq)$.
    F. Grandi
15:40 – 16:10  Coffee Break
16:10 – 18:00  Poster Session
19:00 –  ⋮   Welcome Reception
   (at Trimani Wine Bar, Via Goito 20)

Saturday, September 6

9:00 – 10:15  Invited Talk: Richard Hull
E-Service Composition: Models and Formalisms
10:15 – 10:45  Coffee Break
10:45 – 12:25  Applications II
  ● E-Service Composition by Description Logics Based Reasoning.
    D. Berardi, D. Calvanese, G. De Giacomo, M. Lenzerini, M. Mecella
  ● Incremental Query Answering for Implementing Document Retrieval Services.
    V. Haarslev, R. Möller
  ● RDFS(FA): A DL-ised Sub-language of RDFS.
    J. Z. Pan, I. Horrocks
  ● Rewriting Aggregate Queries using Description Logic.
    D. DeHaan, D. Toman, G. Weddell
12:25 – 14:00  Lunch
14:00 – 15:40  Non-standard Reasoning Services
  ● Concept Abduction and Contraction in Description Logics.
    S. Coiucci, T. Di Noia, E. Di Sciascio, F. Donini, M. Mongiello
  ● Data Mining in Hybrid Languages via ILP.
    F. A. Lisi
    S. Schlobach, R. Cornet
  ● Reasoning about Concepts and Similarity.
    C. Lutz, F. Wolter, M. Zakharyaschev
15:40 – 16:10  Coffee Break
16:10 – 16:35  Systems
  ● DL Reasoner vs. First-Order Prover.
    D. Tsarkov, I. Horrocks
16:35 – 18:30  General Discussion
20:00 –  ⋮   Social Dinner
   (at Rest. Unione Sarda, Via Basento 74)

Sunday, September 7

9:00 – 10:15  Extensions of Description Logics
  ● Fixpoint Extensions of Temporal Description Logics.
    E. Franzoni, D. Toman
  ● Finite Model Reasoning in $\mathcal{ALCQI}$ is EXPTIME-complete.
    C. Lutz, U. Sattler, L. Tendler
  ● E-connections of Description Logics.
    O. Kutz, C. Lutz, W. Wolter, M. Zakharyaschev
10:15 – 10:45  Coffee Break
10:45 – 11:35  Implementations
  ● Implementing Matching in $\mathcal{ALE}$—First Results.
    S. Brandt
  ● The DIG Description Logic Interface.
    S. Bechhofer, R. Möller, P. Crowther
11:35 – 13:00  Wrap Up Session
   Discussion about DL’04
13:00 – 14:00  Lunch