

## Posters

- *Applying Description Logic to Product Behavioural Design within Advanced CAD Systems.*  
F. de Bertrand de Beuvron, A. Coulibaly
- *Computing Least Common Subsumers for  $\mathcal{FL}\mathcal{E}^+$ .*  
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
- *Comparing Natural Language Documents: a DL Based Approach.*  
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 Lambrix	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 Franconi	Univ. Bolzano/Bozen

## Sponsors

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

# 2003 International Workshop on Description Logics

September 5-7, 2003  
Rome

## Final Program

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  $\mathcal{ALCN}(\circ, \sqcup)$ .*  
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. Colucci, T. Di Noia, E. Di Sciascio, F. Donini, M. Mongiello
  - *Data Mining in Hybrid Languages via ILP.*  
F. A. Lisi
  - *Explanation of Terminological Reasoning: A Preliminary Report.*  
S. Schlobach, R. Cornet
  - *Reasoning about Concepts and Similarity.*  
C. Lutz, F. Wolter, M. Zakharyashev
- 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. Franconi, D. Toman
  - *Finite Model Reasoning in  $\mathcal{ALCQI}$  is EXPTIME-complete.*  
C. Lutz, U. Sattler, L. Tendera
  - *E-connections of Description Logics* O. Kutz, C. Lutz, F. Wolter, M. Zakharyashev
- 10:15 – 10:45 Coffee Break
- 10:45 – 11:35 **Implementations**
- *Implementing Matching in  $\mathcal{AL}\mathcal{E}$ —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