# 2006 International Workshop on Description Logics

## Programme

**Bijan Parsia, Ulrike Sattler and David Toman**

**May 30–June 1, 2006**

<table>
<thead>
<tr>
<th>Time</th>
<th>Tuesday (05/30)</th>
<th>Wednesday (05/31)</th>
<th>Thursday (06/01)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00</td>
<td>ABox Reasoning</td>
<td>Implementation</td>
<td>Tableaux</td>
</tr>
<tr>
<td>10:30</td>
<td>Coffee</td>
<td>Coffee/Posters</td>
<td>Coffee/Posters</td>
</tr>
<tr>
<td>11:00</td>
<td>Theory</td>
<td>Queries and DLs</td>
<td>Efficient Reasoning</td>
</tr>
<tr>
<td>12:30</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
</tr>
<tr>
<td>2:00</td>
<td>Tony Hunter</td>
<td>Franz Baader</td>
<td>DIG 2.0</td>
</tr>
<tr>
<td>3:20</td>
<td>Posters Intro</td>
<td>Coffee/Demos</td>
<td>DL Dinner</td>
</tr>
<tr>
<td>3:50</td>
<td>Coffee/Posters/Demos</td>
<td>Unorthodox Apps</td>
<td></td>
</tr>
<tr>
<td>4:30</td>
<td></td>
<td></td>
<td>Business Meeting</td>
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<tr>
<td>6:00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7:30</td>
<td>Welcome Reception</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Tuesday May 30

9:00 Welcome to DL’06
9:05 DLs and ABoxes (regular presentations)
   ▶ SHIN ABox Reduction. *Achille Fokoue, Aaron Kershenbaum* and *Li Ma.*
   ▶ On the Scalability of Description Logic Instance Retrieval. *Ralf Möller Volker Haarslev* and *Michael Wessel.*
   ▶ Optimizations for Answering Conjunctive ABox Queries. *Evren Sirin* and *Bijan Parsia.*

10:35 Coffee
11:00 Theory (long presentations)
   ▶ PSPACE Automata for Description Logics. *Jan Hladik* and *Rafael Peñaloza.*
   ▶ A Description Logic of Change. *Alessandro Artale, Carsten Lutz* and *David Toman.*

12:30 Lunch
2:00 Anthony Hunter: *Living with Inconsistency: Theory + Applications* (Invited Talk)
3:20 Posters Introduction
3:50 Coffee/Posters/Demos
6:00 Welcome Reception

Wednesday May 31

9:00 Implementation (regular presentations)
   ▶ Automated Benchmarking of Description Logic Reasoners. *Tom Gardiner, Ian Horrocks* and *Dmitry Tsarkov.*
   ▶ Description logic reasoning using the PTTP approach. *Zsolt Nagy, Gergely Lukácsy* and *Peter Szeredi.*
   ▶ Handling Imprecise Knowledge with Fuzzy Description Logic. *Giorgos Stoilos, Giorgos Stamou* and *Jeff Pan.*

10:20 Coffee Break/Poster Session
11:00 Queries and DLs (long presentations)

▷ Conjunctive Query Answering for Description Logics with Transitive Roles. Birte Glimm, Ian Horrocks and Ulrike Sattler.

▷ Epistemic First-order Queries over Description Logic Knowledge Bases. Diego Calvanese, Giuseppe De Giacomo, Domenico Lembo, Maurizio Lenzerini and Riccardo Rosati.

▷ Data Complexity of Answering Unions of Conjunctive Queries in $SHI\Omega$. Magdalena Ortiz, Diego Calvanese and Thomas Eiter.

12:30 Lunch

2:00 Franz Baader: Description Logics: a personal history (Invited Talk)

3:20 Coffee Break/Poster Session

4:30 Unorthodox Applications (regular presentations)

▷ Finding Subsumers for Natural Language Presentation. Chris Mellish and Jeff Pan.

▷ Will my Ontologies Fit Together?. Bernardo Cuenca Grau, Ian Horrocks, Oliver Kutz and Ulrike Sattler.

▷ Model checking the basic modalities of CTL with Description Logic. Shoham Ben-David, Richard Trefler and Grant Weddell.


7:30 DL Dinner

Thursday June 1

9:00 Tableaux (regular presentations)

▷ Reasoning for Fuzzy Description Logic with Comparison Expressions. Dazhou Kang, Baowen Xu, Jianjiang Lu and Yanhui Li.

▷ Tableau Caching for Description Logics with Inverse and Transitive Roles. Yu Ding and Volker Haarslev.


▷ Extending the $SHO\Omega L(D)$ Tableaux with DL-safe Rules: First Results. Vladimir Kolovski, Bijan Parsia and Evren Sirin.

10:20 Coffee Break/Poster Session
11:00 Efficient Reasoning (long presentations)

▷ Efficient Reasoning in $\mathcal{EL}$. Franz Baader, Carsten Lutz and Boontawee Suntisrivaraporn.

▷ Discrete Tableau Algorithms for $\mathcal{FSHT}$. Yanhui Li, Baowen Xu, Jianjiang Lu and Dazhou Kang.

▷ Binary Absorption in Tableaux-Based Reasoning for Description Logics. Alexander K. Hudek and Grant Weddell.

12:30 Lunch

2:00 DIG 2.0 session

3:00 Coffee Break/Poster Session

4:00 Business Meeting

Poster Presentation Schedule (May 30 at 3:20)

▷ Euclidian Roles in Description Logics. Giorgos Stoilos and Giorgos Stamou.


▷ How sensor data interpretation could benefit from description logics: A practical case study. Ralf Möller and Sylvia Melzer.

▷ Cost-Efficient Web Service compositions for querying processes over reasoning services. Irma Sofia Espinosa Peraldi and Ralf Möller.

▷ Static Knowledge Representation of Multi-Agent System’s Specification by Description Logic. Haiyan Che and Jigui Sun.


▷ Computing Maximally Satisfiable Terminologies for the Description Logic $\mathcal{ALC}$ with Cyclic Definitions. Kevin Lee, Thomas Meyer, Jeff Pan and Richard Booth.

▷ Pellet System Description. Evren Sirin and Bijan Parsia.

▷ Topological Reasoning in Basic Description. Matteo Cristani, Nicoletta Gabrielli and Paolo Torelli.

▷ The new ICOM Ontology Editor. Pablo Fillottrani, Enrico Franconi and Sergio Tessaris.