

## Program Dagstuhl Seminar 05371

### Principles and Practice of Semantic Web Reasoning (PPSWR 2005)

11-16 September 2005

#### Monday, September 12, 2005

- 09:45 - 10:00 **Opening**
- *François Fages, Uta Schwertel*
- 10:00 - 12:00 **Session on Architectures**
- SomeWhere in the Semantic Web  
*Philippe Adjiman, Philippe Chatalic, François Goasdoue, Marie-Christine Rousset, Laurent Simon*
  - A Framework for Aligning Ontologies  
*Patrick Lambrix, He Tan*
  - A Revised Architecture for Semantic Web Reasoning  
*Peter F. Patel-Schneider*
  - Semantic Web Architecture: Stack or Two Towers?  
*Ian Horrocks, Bijan Parsia, Peter Patel-Schneider, James Hendler*
- 12:00 - 14:00 Lunch**
- 14:00 - 15:00 **Invited Talk**
- Ten Theses on Logic Languages for the Semantic Web  
*François Bry (Talk given by Tim Furche)*
- 15:00 - 15:30 Coffee Break**
- 15:30 - 17:00 **First session on languages**
- Semantic and computational advantages of the safe integration of ontologies and rules  
*Riccardo Rosati*
  - Logical reconstruction of RDF and ontology languages  
*Enrico Franconi, Sergio Tessaris*
  - Marriages of Convenience: Triples and Graphs, RDF and XML  
*Tim Furche, François Bry, Oliver Bolzer*
- 17:00 - 18:00 **Open topics session**
- Hybrid Technique for Composition of Rules And Ontologies for Semantic Web Reasoning  
*Uwe Aßmann, Jakob Henriksson, Jan Maluszyński*
  - Extending RDF by Adding Two Kinds of Negation and Rules  
*Gerd Wagner, Adrian Giurca*
- 18:00 - 20:00 Dinner**
- 20:00 - 21:00 **REWERSE Steering Committee Meeting**

#### Tuesday, September 13, 2005

- 09:00 - 10:00 **Invited Talk**
- Use Cases for Reasoning with Metadata or What have Web Services to do with Integrity Constraints?  
*Stefan Decker*
- 10:00 - 10:30 Coffee Break**
- 10:30 - 11:30 **Second Session on Languages**
- Descriptive Typing Rules for Xcerpt  
*Sacha Berger, Emmanuel Coquery, Włodzimierz Drabent, Artur Wilk*
  - A general language for Evolution and Reactivity in the Semantic Web  
*José Júlio Alferes, Ricardo Amador, Wolfgang May*
- 11:30 - 12:15 **Open topics session**
- R2ML: A General Approach for Marking up Rules  
*Gerd Wagner, Adrian Giurca, Sergey Lukichev*
  - The EFGT net: Reasoning about concepts in a time-geo-topic-entity space  
*Felix Weigel, Klaus U. Schulz, Levin Brunner, Eduardo Torres-Schumann*
- 12:15 - 14:00 Lunch**
- 14:00 - 15:00 **Panel Discussion**
- Research Perspectives for Rule-Languages on the (Semantic) Web
- 15:00 - 15:30 Coffee Break**
- 15:30 - 18:00 **System Demonstrations**
- Open to all participants.
- 18:00 - 20:00 Dinner**
- 20:00 - 21:00 **REWERSE intra- or inter WP meetings**
- To be organised and announced by REWERSE Working Group representatives.

## Wednesday, September 14, 2005

- 09:00 - 10:00 **Invited Talk**  
Generating Contexts for Expression Data using Pathway Queries  
*Florian Sohler*
- 10:00 - 10:30 Coffee Break**
- 10:30 - 12:00 **Session on Reasoning**
- Principles of Inductive Reasoning on the Semantic Web: A Framework for Learning in AL-log  
*Francesca A. Lisi*
  - Computational Treatment of Temporal Notions - The CTTN-System  
*Hans Jürgen Ohlbach*
  - A Geospatial World Model for the Semantic Web  
*François Bry, Bernhard Lorenz, Hans Jürgen Ohlbach, Mike Rosner*
- 12:00 - 13:00 Lunch**
- 13:15 - 23:00 **Excursion to Luxembourg (including joint dinner with wine-tasting in the evening)**

## Thursday, September 15, 2005

- 09:00 - 10:00 **Tutorial Session 1 - Xcerpt**
- 'Reasonable' Web Querying: Patterns and Rules (Xcerpt) - 1  
*Tim Furche*
- 10:00 - 10:30 Coffee Break**
- 10:30 - 12:00 **Tutorial Session 2 - Xcerpt and XChange**
- 'Reasonable' Web Querying: Patterns and Rules (Xcerpt) - 2  
*Tim Furche*
  - Reactivity on the (Semantic) Web (XChange)  
*Michael Eckert*
- 12:00 - 14:00 Lunch**
- 14:00 - 15:00 **Tutorial Session 3 - Discussion**
- Xcerpt in REWERSE: Use-cases, applications, requirements, perspectives
- 15:00 - 15:30 Coffee Break**
- 15:30 - 18:00 **The project REWERSE - Discussions**
- REWERSE - Internal perspectives and external impact: Brief presentations and plenary discussion  
*Enrico Franconi, Jan Matuszyński, Peter F. Patel-Schneider, Wolfgang May*
  - REWERSE meeting  
*Progress report of WGs: Status, results, problems, co-operations, general discussions*
- 18:00 - 20:00 Dinner**
- 20:00 - 21:30 **Free for discussions**

## Friday, September 16, 2005

- 09:00 - 10:30 **Tutorial Session 4 - CaTTS**
- CaTTS - A Type Language for Calendars  
*Stephanie Spranger*
- 10:30 - 11:00 Coffee Break**
- 11:00 - 12:00 **Closing Discussion**
- Chaired by *Jan Matuszyński*
- 12:00 - 14:00 **Lunch**

## Further information

- Location: International Conference and Research Center for Computer Science, Schloss Dagstuhl, Wadern, Germany  
(<http://www.dagstuhl.de/>)
- Workshop page: <http://contraintes.inria.fr/~fages/PPSWR05/>
- Seminar page: <http://www.dagstuhl.de/05371/>
- Check-in: Registration is Sunday between 15 h and 19 h. Outside this time slot use access code sent by email.
- Additional hotels: <http://www.dagstuhl.de/TravelInfo/Accommodation/>
- Further information: François Fages and Uta Schwertel
- Supported by: EU Network of Excellence REWERSE (<http://rewerse.net>)