



# Web Reasoning and Rule Systems Third International Conference Chantilly, Virginia, USA

General Chair: Michael Kifer  
Program Co-chairs: Axel Polleres, Terrance Swift  
Local Arrangements Chair: Guilin Qi  
Sponsorship Chair: Pascal Hitzler

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Axel Polleres, Terrance Swift (Eds.): Web Reasoning and Rule Systems:  
Third International Conference, RR 2009, Chantilly, Virginia, USA, October 25-26 2009.  
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## October 25

08:15-08:45 Breakfast (provided)

08:45-09:00 Welcome and Opening (Michael Kifer, Terry Swift, Axel Polleres)

09:00-10:30 Session 1: Invited talk (Chair: *Terry Swift*)

Robert Kowalski *Integrating Logic Programming and Production Systems with Abductive Logic Programming Agents*

10:30-11:00 Coffee Break

11:00-12:30 Session 2: Proof/Deduction procedures (Chair: *Pascal Hitzler*)

11:00-11:30 Stephan Grimm and Pascal Hitzler. *A Preferential Tableaux Calculus for Circumscriptive ALCO*

11:30-12:00 Stijn Heymans, Cristina Feier and Thomas Eiter. *A Reasoner for Simple Conceptual Logic Programs*

12:00-12:30 Simon Brodt, Francois Bry and Norbert Eisinger. *Search for More Declarativity - Backward Reasoning for Rule Languages Reconsidered*

12:30-14:00 Lunch (provided)

14:00-15:30 Session 3: Invited Tutorial (Chair: *Axel Polleres*)

Thomas Lukasiewicz *Uncertainty Reasoning for the Semantic Web*

15:30-16:00 Coffee Break

16:00-17:30 Session 4: Scalability (Chair: *Jeff Pan*)

16:00-16:30 Anne Schlicht and Heiner Stuckenschmidt. *Distributed Resolution for Expressive Ontology Networks*

16:30-17:00 Gergely Lukcsy and Peter Szeredi. *Scalable Web Reasoning using Logic Programming Techniques*

17:00-17:30 Aidan Hogan and Stefan Decker. *On the ostensibly silent 'W' in OWL RL*

## October 26

08:15-09:00 Breakfast (provided)

09:00-10:30 Session 1: Invited Talk (Chair: *Michael Kifer*)

Benjamin Groszof *SILK: Higher Level Rules with Defaults and Semantic*

10:30-11:00 Coffee Break

11:00-12:30 Session 2: Uncertainty (Chair: *Thomas Lukasiewicz*)

11:00-11:30 Steven Schockaert, Jeroen Janssen, Dirk Vermeir and Martine De Cock. *Answer Sets in a Fuzzy Equilibrium Logic*

11:30-12:00 Hui Wan. *Belief Logic Programming with Cyclic Dependencies*

12:00-12:30 Umberto Straccia. *A Minimal Deductive System for General Fuzzy RDF*

12:30-14:00 Lunch (provided)

14:00-15:30 Session 3: Knowledge Amalgamation & Querying  
(Chair: *Georg Lausen*)

14:00-14:30 Christian Meilicke and Heiner Stuckenschmidt. *An Efficient Method for Computing Alignment Diagnoses*

15:30-15:00 Yue Ma and Pascal Hitzler. *Paraconsistent reasoning for OWL 2*

15:00-15:30 Anastasia Analyti, Grigoris Antoniou and Carlos Viegas Damasio. *A Formal Theory for Modular ERDF Ontologies*

15:30-16:00 Coffee Break

16:00-17:30 Session 4: Knowledge Querying, Rules for Decision Support, Production Systems (Chair: *Axel Polleres*)

16:00-16:30 Francois Bry, Benedikt Linse and Tim Furche. *The Perfect Match: RPL and RDF Rule Languages*

16:30-17:00 Matt Mouley Bouamrane, Alan Rector and Martin Hurrell. *A Hybrid Architecture for a Preoperative Decision Support System using a Rule Engine and a Reasoner on a Clinical Ontology*

17:00-17:30 Martin Rezk and Jos de Bruijn. *A Logic Based Approach to the Static Analysis of Production Systems*

17:30-18:00 Closing and Best Paper Award