

14:00-15:30 TECHNICAL SESSIONS (IN PARALLEL)

Belief Revision II - room A

Belief Revision within Fragments of Propositional Logic
Nadia Creignou, Odile Papini, Reinhard Pichler, Stefan Woltran

Ontology Evolution under Semantic Constraints
Bernardo Cuenca Grau, Ernesto Jimenez-Ruiz, Evgeny Kharlamov, Dmitriy Zheleznyakov

Robust Equivalence Models for Semantic Updates of Answer-Set Programs
Martin Slota, Joao Leite

Abstraction and Diagnosis - room B

An Abstraction Technique for the Verification of Artifact-Centric Systems
Francesco Belardinelli, Alessio Lomuscio, Fabio Patrizi

Abstract Normative Systems: Semantics and Proof Theory
Silvano Colombo Tosatto, Guido Boella, Leendert van der Torre, Serena Villata

Conflict-Based Diagnosis of Discrete Event Systems: Theory and Practice
Alban Grastien, Patrik Haslum, Sylvie Thiebaux

15:30-16:00 COFFEE - roof garden

16:00-17:30 POSTERS - SHORT PAPERS & DOCTORAL CONSORTIUM - roof garden

17:30-18:30 INVITED TALK - room A

Ontology-Based Data Management: Present and Future
Maurizio Lenzerini

THURSDAY, JUNE 14

09:00-10:00 TECHNICAL SESSIONS (IN PARALLEL)

Argumentation - room A

Complexity-Sensitive Decision Procedures for Abstract Argumentation
Wolfgang Dvorak, Matti Jervisalo, Johannes Peter Wallner, Stefan Woltran

Fixpoints and Iterated Updates in Abstract Argumentation
Davide Grossi

Spatial and Temporal Reasoning - room B

Compactness and Its Implications for Qualitative Spatial and Temporal Reasoning
Jinbo Huang

Implicit Constraints for Qualitative Spatial and Temporal Reasoning
Jochen Renz

10:00-10:30 COFFEE - roof garden

10:30-13:15 TECHNICAL SESSIONS (IN PARALLEL)
11:30-11:45 coffee break

Description Logics II - room A

Acyclicity Conditions and Their Application to Query Answering in Description Logics
Bernardo Cuenca Grau, Ian Horrocks, Markus Krötzsch, Clemens Kupke, Despoina Magka, Boris Motik, Zhe Wang

Rewriting Ontological Queries into Small Nonrecursive Datalog Programs
Georg Gottlob, Thomas Schwentick

Conjunctive Query Answering with OWL 2 QL
Stanislav Kikot, Roman Kontchakov, Michael Zakharyashev

Non-Uniform Data Complexity of Query Answering in Description Logics
Carsten Lutz, Frank Wolter

High Performance Query Answering over DL-Lite Ontologies
Mariano Rodriguez-Muro, Diego Calvanese

Reasoning about Actions and Planning - room B

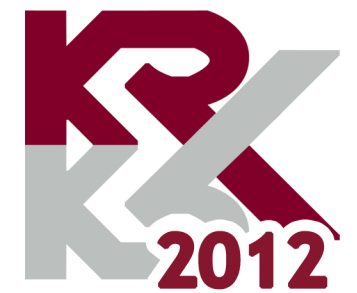
Temporal Composite Actions with Constraints
Patrick Doherty, Jonas Kvarnström and Andrzej Szalas

Abstracting Abstraction in Search with Applications to Planning
Christer Bäckström and Peter Jonsson

Synthesizing Agent Protocols from LTL Specifications against Multiple Partially-Observable Environments
Giuseppe De Giacomo, Paolo Felli, Alessio Lomuscio

Bounded Situation Calculus Action Theories and Decidable Verification
Giuseppe De Giacomo, Yves Lespérance, Fabio Patrizi

13:15 END OF CONFERENCE



13th International Conference on Principles of Knowledge Representation and Reasoning

		Sunday 10 - tutorials			
10:00 - 13:15		Torsten Schaub: Modeling and Solving in Answer Set Programming		Gottlob/Greco/Scarcello: Graph-Based Methods for Problem Decomposition	
13:15 - 14:30		lunch			
14:30 - 17:45		Jérôme Lang: Introduction to Social Choice		Alfio M. Gliozzo: IBM Watson	
17:45 - 20:00		Reception			
		Monday 11	Tuesday 12	Wednesday 13	Thursday 14
09:00 - 10:00		Leora Morgenstern: Remembrance of John McCarthy	Craig Boutilier: Preference Elicitation and Preference Learning	Moshe Vardi: The Rise and Fall of Linear Temporal Logic	2 x 2 papers: Argumentation Spatial & Temporal Reasoning
10:00 - 10:30		coffee	coffee	coffee	coffee
10:30 - 12:30		2 x 4 papers: Belief Revision I DM & Preferences	2 x 4 papers: Description Logics I ASP and LP	2 x 4 papers: Epistemic Logics AR and Computation	10:30-11:30 2 x 2 papers: Actions and Change Description Logics II coffee 11:45-11:30 2 x 3 papers: Actions and Change (cont.) Description Logic II (cont.) 13:15 End of Conference
12:30 - 14:00		lunch	lunch	lunch	
14:00 - 15:30		Short paper presentations	2 x 3 papers: Inconsistency & Similarity KR and KBS	2 x 3 papers: Belief Revision II Abstraction & Diag.	
15:30 - 16:00		coffee	15:30-late Excursion & Banquet	coffee	
16:00 - 17:00		2 x 2 papers: Uncertainty Reports from the Field		Posters - Short Papers & Doctoral Consortium	
17:00 - 18:30		Vladimir Lifschitz: Great Moments in KR		17:30 Maurizio Lenzerini: Ontology-based Data Management	



Conference site: Università di Roma "La Sapienza", Via Caserta 6, 00161 Rome, Italy
Welcome Reception: Sunday June 10, 17:45 - 20:00 at the roof garden of the conference site
Excursion & Banquet: Tuesday June 12, 15:30 - late
Guided visit to Villa Adriana and banquet at Hotel Ristorante Adriano
Address: Largo M. Yourcenar, 2 Villa Adriana Tivoli



CONFERENCE PROGRAM

SUNDAY, JUNE 10
10:00-13:15 TUTORIALS (IN PARALLEL) - 11:30 coffee break
Modeling and Solving in Answer Set Programming - room B1 Torsten Schaub
Graph-Based Methods for Problem Decomposition - room B2 Georg Gottlob, Gianluigi Greco, Francesco Scarcello
13:15-14:30 LUNCH - roof garden
14:30-17:45 TUTORIALS (IN PARALLEL) - 16:00 coffee break
Introduction to Social Choice - room B1 J�r�me Lang
IBM Watson - room B2 Alfio M. Gliozzo
17:45-20:00 RECEPTION
MONDAY, JUNE 11
09:00-10:00 LECTURE IN REMEMBRANCE OF JOHN MCCARTHY
Through the Lens of Drosophila: John McCarthy's Quest for Human-Level Artificial Intelligence - room A Leora Morgenstern
10:00-10:30 COFFEE - roof garden
10:30-12:30 TECHNICAL SESSIONS (IN PARALLEL)
Belief Revision I - room A
Horn Belief Contraction: Remainders, Envelopes and Complexity Kira Adaricheva, Robert Sloan, Balazs Szorenyi, Gyorgy Turan
Model Based Horn Contraction Zhiqiang Zhuang, Maurice Pagnucco
Credibility-Limited Revision Operators in Propositional Logic Richard Booth, Eduardo Ferme, S�bastien Konieczny and Ramon Pino Perez
Belief Revision with Sensing and Fallible Actions James P. Delgrande, Hector J. Levesque
Decision Making and Reasoning about Preferences - room B
Paradoxes of Multiple Elections: An Approximation Approach Vincent Conitzer, Lirong Xia
Strong Equivalence of Qualitative Optimization Problems Wolfgang Faber, Mirosław Truszczyński, Stefan Woltran
Ranking Sets of Possibly Interacting Objects Using Shapley Extensions Stefano Moretti and Alexis Tsouki�s
An Axiomatic Framework for Influence Diagram Computation with Partially Ordered Utilities Nic Wilson, Radu Marinescu
12:30-14:00 LUNCH - roof garden
14:00-15:30 SHORT PAPER PRESENTATIONS (IN PARALLEL)
SESSION A - room A
- Description Logics
Justification Masking in Ontologies Matthew Horridge, Bijan Parsia and Ulrike Sattler

The Complexity of Explaining Negative Query Answers in DL-Lite Diego Calvanese, Magdalena Ortiz, Mantas Simkus and Giorgio Stefanoni
Exchanging Description Logic Knowledge Bases Marcelo Arenas, Elena Botoeva, Diego Calvanese, Vladislav Ryzhikov and Evgeny Sherkhonov
Extending Unification in EL towards General TBoxes Franz Baader, Stefan Borgwardt and Barbara Morawska
- Belief Revision
Revising Partial Pre-Orders with Partial Pre-Orders: A Unit-Based Revision Framework Jianbing Ma, Salem Benferhat and Weiru Liu
Compositional Belief Merging Patricia Everaere, S�bastien Konieczny and Pierre Marquis
- Argumentation
Weighted Attacks in Argumentation Frameworks Sylvie Coste-Marquis, S�bastien Konieczny, Pierre Marquis and Mohand Akli
Modelling Time and Reliability in Structured Argumentation Frameworks Maximiliano Celmo David Bud�n, Mauro G�mez Lucero, Carlos Iv�n Ches�nevar and Guillermo Ricardo Simari
Efficient Argumentation for Medical Decision-Making Robert Craven, Francesca Toni, Adrian Hadad and Matthew Williams
SESSION B - room B
- Reasoning and Search
Search Strategy Simulation in Constraint Booleanization Jinbo Huang
Stream Reasoning with Answer Set Programming: Preliminary Report Martin Gebser, Torsten Grote, Roland Kaminski, Philipp Obermeier, Orkunt Sabuncu and Torsten Schaub
Towards Parallel Nonmonotonic Reasoning with Billions of Facts Ilias Tachmazidis, Grigoris Antoniou, Giorgos Flouris and Spyros Kotoulas
Assertion Absorption in Object Queries over Knowledge Bases Jiewen Wu, Alexander Hudek, David Toman, Grant Weddell
- Logic Programming
Forgetting in Logic Programs under Strong Equivalence Yisong Wang, Yan Zhang, Yi Zhou and Mingyi Zhang
Worst-case Optimal Reasoning with Forest Logic Programs Cristina Feier
- Principled Applications
Thinking Inside the Box: A Comprehensive Spatial Representation for Video Analysis Anthony G. Cohn, Jochen Renz and Muralikrishna Sridhar
Solving Puzzles Described in English by Automated Translation to Answer Set Programming and Learning how to do that Translation Chitta Baral and Juraj Dzifcak
Achieving Completeness in Bounded Model Checking of Action Theories in ASP Laura Giordano, Alberto Martelli, Daniele Theseider Dupr�

15:30-16:00 COFFEE - roof garden
16:00-17:00 TECHNICAL SESSIONS (IN PARALLEL)
Uncertainty - room A
A Bipolar Framework for Combining Beliefs about Vague Propositions Jonathan Lawry, Didier Dubois
Stable Models in Generalized Possibilistic Logic Didier Dubois, Henri Prade, Steven Schockaert
Reports from the Field - room B
JASP: A Framework for Integrating Answer Set Programming with Java Onofrio Febbraro, Giovanni Grasso, Nicola Leone, Francesco Ricca
The Winograd Schema Challenge Hector J. Levesque, Ernest Davis, Leora Morgenstern
17:00-18:30 GREAT MOMENTS IN KR TALK - room A
Logic Programming Solution to the Frame Problem Vladimir Lifschitz
TUESDAY, JUNE 12
09:00-10:00 INVITED TALK - room A
Preference Elicitation and Preference Learning in Social Choice: New Foundations for Group Recommendation Craig Boutilier
10:00-10:30 COFFEE - roof garden
10:30-12:30 TECHNICAL SESSIONS (IN PARALLEL)
Description Logics I - room A
Query Containment in Description Logics Reconsidered Meghyn Bienvenu, Carsten Lutz, Frank Wolter
Undecidability of Fuzzy Description Logics Stefan Borgwardt and Rafael Pe�aloza
An Automata-Theoretic Approach to Uniform Interpolation and Approximation in the Description Logic EL Carsten Lutz, Inanc Seylan, Frank Wolter
Practical Reasoning with Nominals in the EL Family of Description Logics Yevgeny Kazakov, Markus Kr�ttsch and Frantisek Simancik
Answer Set Programming and Logic Programming - room B
Logic Programs with Intensional Functions Vladimir Lifschitz
Stable Models of Formulas with Intensional Functions Michael Bartholomew, Joohyung Lee
Answer Set Programming via Mixed Integer Programming Guohua Liu, Tomi Janhunen, Ilkka Niemela
On the Small-Scope Hypothesis for Testing Answer-Set Programs Johannes Oetsch, Michael Prischink, J�rg P�hrer, Martin Schwengerer and Hans Tompits
12:30-14:00 LUNCH - roof garden
14:00-15:30 TECHNICAL SESSIONS (IN PARALLEL)

Inconsistency-Tolerant and Similarity-Based Reasoning - room A
Declarative Entity Resolution via Matching Dependencies and Answer Set Programs Zeinab Bahmani, Leopoldo Bertossi, Solmaz Kolahi, Laks V.S. Lakshmanan
Paraconsistent Hybrid Theories Michael Fink
Homogeneous Logical Proportions: Their Uniqueness and Their Role in Similarity-Based Prediction Henri Prade, Gilles Richard
Knowledge Representation and Knowledge-Based Systems - room B
From Knowledge Represented in Frame-Based Languages to Declarative Representation and Reasoning via ASP Chitta Baral, Shanshan Liang
Specifying and Reasoning with Underspecified Knowledge Bases Using Answer Set Programming Vinay K. Chaudhri, Tran Cao Son
Generalized Ontology-Based Production Systems Riccardo Rosati, Enrico Franconi
15:30 EXCURSION AND CONFERENCE DINNER
WEDNESDAY, JUNE 13
09:00-10:00 INVITED TALK - room A
The Rise and Fall of Linear Temporal Logic Moshe Y. Vardi
10:00-10:30 COFFEE - roof garden
10:30-12:30 TECHNICAL SESSIONS (IN PARALLEL)
Epistemic Logics - room A
Ambiguous Language and Differences in Beliefs Joseph Y. Halpern, Willemien Kets
Automated Verification of Epistemic Properties for General Game Playing Sebastian Haufe, Michael Thielscher
Only-Knowing Meets Nonmonotonic Modal Logic Gerhard Lakemeyer, Hector J. Levesque
Ordered Epistemic Logic: Semantics, Complexity and Applications Hanne Vlaeminck, Joost Vennekens, Maurice Bruynooghe, Marc Denecker
Automated Reasoning and Computation - room B
On Unit-Refutation Complete Formulae with Existentially Quantified Variables Lucas Bordeaux, Mikolas Janota, Joao Marques-Silva, Pierre Marquis
Fixed-Parameter Algorithms for Finding Minimal Models Martin Lackner, Andreas Pfandler
A Generic Querying Algorithm for Greedy Sets of Existential Rules Michail Thomazo, Jean-Fran�ois Baget, Marie-Laure Mugnier, Sebastian Rudolph
Efficiently Computable Datalog^E Programs Nicola Leone, Marco Manna, Giorgio Terracina, Pierfrancesco Veltri
12:30-14:00 LUNCH - roof garden