

KR 2008 Programme

Monday September 15

13:30-15:00	Tutorial 1 Michael Thielscher: KR-Techniques for General Game Playing (Doric)
	Coffee Break
15:30-17:00	Tutorial 2 Tony Hunter: Argumentation Systems (Doric)
17:00-18:00	KR Opening Norman Foo: Great Moments in KR Talk (Doric)
18:00	Welcome Reception (Banquet Hall)

Tuesday September 16

09:00-10:00	KR-CP Invited talk: Adnan Darwiche Satisfiability, Knowledge Compilation and the Journey Towards Universal Reasoning Engines (Grand Lodge)	
	Coffee Break	
10:30-12:00	S1: LOGIC PROGRAMMING (Doric) <i>Computing Loops with at Most One External Support Rule</i> , Xiaoping Chen, Jianmin Ji, Fangzhen Lin <i>Conflict-Driven Disjunctive Answer Set Solving</i> , Christian Drescher, Martin Gebser, Torsten Grote, Benjamin Kaufmann, Arne König, Max Ostrowski, Torsten Schaub <i>On Loop Formulas with Variables</i> , Joohyung Lee, Yunsong Meng <i>Answer Set Programming with Functions</i> , Fangzhen Lin, Yisong Wang	S2: PREFERENCES (Corinth.) <i>Relational Preference Rules for Control</i> , Ronen I. Brafman <i>Reasoning with Qualitative Preferences and Cardinalities using Generalized Circumscription</i> , Patrick Doherty, Andrzej Szalas <i>Dealing with Incomplete Agents' Preferences and an Uncertain Agenda in Group Decision Making via Sequential Majority Voting</i> , Maria Silvia Pini, Francesca Rossi, Kristen Brent Venable, Toby Walsh <i>Preference Modeling by Weighted Goals with Max Aggregation</i> , Joel Uckelman, Ulle Endriss
	Lunch Break	
13:30-15:00	S3: NONMONOTONIC REASONING (Doric) <i>Default Theory of Defeasible Entailment</i> , Alexander Bochman <i>Semantic Preferential Subsumption</i> , Katarina Britz, Johannes Heidema, Thomas Meyer <i>Computing Default Extensions by Reductions on OR</i> , Espen H. Lian, Arild Waaler <i>An Abstract Argumentation Framework with Varied-Strength Attacks</i> , Diego C. Martínez, Alejandro J. García, Guillermo R. Simari	S4: TEMPORAL AND SPATIAL REASONING (Corinth.) <i>Formalising Temporal Constraints on Part-Whole Relations</i> , Alessandro Artale, Nicola Guarino, C. Maria Keet <i>Time Representation and Temporal Reasoning from the Perspective of Non-Standard Analysis</i> , Philippe Balbiani <i>A Complete First-Order Logic of Knowledge and Time</i> , Francesco Belardinelli, Alessio Lomuscio <i>Automated Complexity Proofs for Qualitative Spatial and Temporal Calculi</i> , Jochen Renz, Jason Jingshi Li
	Coffee Break	
15:30-17:00	S5: NONM. REAS. AND LOGIC PROGR. (Doric) <i>Embedding Approaches to Combining Rules and Ontologies into Autoepistemic Logic</i> , Jos de Bruijn, Thomas Eiter, Hans Tompits <i>A Principled Framework for Modular Web Rule Bases and Its Semantics</i> , Anastasia Analyti, Grigoris Antoniou, Carlos Viegas Damásio <i>Notions of Strong Equivalence for Logic Programs with Ordered Disjunction</i> , Wolfgang Faber, Hans Tompits, Stefan Woltran <i>Belief Revision of Logic Programs under Answer Set Semantics</i> , James Delgrande, Torsten Schaub, Hans Tompits, Stefan Woltran	S6: CAUSALITY AND MACHINE LEARNING (Corinth.) <i>Scenario Update Applied to Causal Reasoning</i> , Florence Dupin de Saint-Cyr <i>Defaults and Normality in Causal Structures</i> , Joseph Y. Halpern <i>On Notions of Causality and Distributed Knowledge</i> , Ron van der Meyden <i>A First Experimental Demonstration of Massive Knowledge Infusion</i> , Loizos Michael, Leslie G. Valiant
17:15-18:45	Doctoral Consortium (Banquet Hall, Snacks provided)	

Wednesday September 17

	<p>08:45-10:00: KRAMAS (Doric) (Dynamic) Epistemic Logic</p> <p><i>What Do We Accept After an Announcement?</i>, Herzig, Lima, Lorini</p> <p><i>Reasoning about other agents' beliefs under bounded resources</i>, Alechina, Logan, Nguyen, Rakib</p> <p><i>Simulation and information: quantifying over epistemic events</i> Van Ditmarsch, French</p>	<p>08:30-10:00 KROW (Corinth.)</p> <p>KROW Invited talk: Enrico Franconi</p> <p><i>Towards Distributed Tableaux Reasoning Procedure for DDL with Increased Subsumption Propagation between Remote Ontologies</i>, Martin Homola and Luciano Serafini</p>
	Coffee Break	
	<p>10:30-12:35: KRAMAS (Doric) Communication, Coalitions & Games</p> <p><i>Dynamic logic on Normal form Games</i>, Ramanujam, Simon</p> <p><i>Modal Logics for Preferences and Cooperation: Expressivity and Complexity</i>, Degremont, Kurzen</p> <p><i>Information-Based Argumentation</i>, Sierra, Debenham</p> <p><i>From trust in information sources to trust in communication systems: an analysis in modal logic</i>, Lorini, Demolombe</p> <p><i>Pre-processing Techniques For Anytime Coalition Structure</i>, Michalak, Dowell, McBurney, Wooldridge</p>	<p>10:30-12:00 KROW (Corinth.)</p> <p><i>Supporting coral reef ecosystems research through modelling reusable ontologies</i>, Trina Myers, Ian Atkinson and Ron Johnstone</p> <p><i>Enhancing Subjective Ontologies with Social Tagging Systems</i>, Dennis Hooijmaijers and Markus Stumptner</p> <p><i>Creating and Querying Linguistically Motivated Ontologies</i>, Rolf Schwitter</p>
	Lunch Break	
14:00-15:00	KR-KRAMAS-KROW Invited talk: Joe Halpern Beyond Nash Equilibrium: Solution Concepts for the 21st Century (Doric)	
	Coffee Break	
	<p>15:20-17:00: KRAMAS (Doric) Coordination</p> <p><i>Normative Multi-Agent Programs and Their Logics</i>, Dastani, Grossi, Meyer, Tinnemeier</p> <p><i>Cognitive Artifacts for Intelligent Agents in MAS: Exploiting Relevant Information residing in Environments</i>, Pionti, Ricci</p> <p><i>An Argumentation-based Protocol for Conflict Resolution</i>, Bentahar, Alam, Maamar</p> <p><i>Requirements towards automated mediation agents</i>, Simoff, Sierra, Lopez de Mantaras</p>	<p>15:30-17:00 KROW (Corinth.)</p> <p><i>Heterogeneously Structured Ontologies - Integration, Connection, and Refinement</i>, Oliver Kutz, Dominik Luecke and Till Mossakowski</p> <p><i>Ontology Evolution for Customer Services</i>, Tho Quan and Thai Nguyen</p> <p><i>An Argumentative Approach to Reasoning with Inconsistent Ontologies</i>, Sergio Alejandro Gomez, Carlos Chesnevar and Guillermo R. Simari</p> <p><i>Utilising Ontological Structure for Reasoning with Preferences</i>, Gil Chamiel and Maurice Pagnucco</p>
17:45-	Conference dinner on MV Sydney 2000 with boarding at Jetty 1 of King Street Wharf. See map .	

Thursday September 18

9:00-10:00	KR-ICAPS Invited Talk: Ronen Brafman Preferences, Planning and Control (Grand Lodge)	
	Coffee Break	
10:30-12:00	<p>S7: JOINT KR-ICAPS SESSION I (Grand Lodge)</p> <p><i>On the Complexity of Planning Operator Subsumption</i>, Patrick Eyerich, Michael Brenner, Bernhard Nebel</p> <p><i>Deductive Planning with Inductive Loops</i>, Martin Magnusson, Patrick Doherty</p> <p><i>Planning Graphs and Propositional Clause-Learning</i>, Jussi Rintanen</p> <p><i>Proving Goal Achievability</i>, Fangzhen Lin</p>	<p>S8: DESCRIPTION LOGICS/ONTOLOGIES I (Doric)</p> <p><i>LTl over Description Logic Axioms</i> Franz Baader, Silvio Ghilardi, Carsten Lutz</p> <p><i>View-Based Query Answering over Description Logic Ontologies</i> Diego Calvanese, Giuseppe De Giacomo, Maurizio Lenzerini, Riccardo Rosati</p> <p><i>Unions of Conjunctive Queries in SHOQ</i>, Birte Glimm, Ian Horrocks, Ulrike Sattler</p> <p><i>Representing Structured Objects using Description Graphs</i>, Boris Motik, Bernardo Cuenca Grau, Ian Horrocks, Ulrike Sattler</p>
	Lunch Break	
13:30-15:00	<p>S9: JOINT KR-ICAPS SESSION II (Grand Lodge)</p> <p><i>A Temporal Logic-Based Planning and Execution Monitoring System</i>, Jonas Kvarnström, Fredrik Heintz, Patrick Doherty</p> <p><i>The Complexity of Optimal Planning and a More Efficient Method for Finding Solutions</i>, Katrina Ray, Matthew L. Ginsberg</p> <p><i>A Compact and Efficient SAT Encoding for Planning</i>, Nathan Robinson, Charles Gretton, Duc-Nghia Pham, Abdul Sattar</p> <p><i>Stochastic Planning with First Order Decision Diagrams</i>, Saket Joshi, Roni Khardon</p>	<p>S10: DESCRIPTION LOGICS/ONTOLOGIES II (Doric)</p> <p><i>Identifying Objects Over Time with Description Logics</i>, David Toman, Grant Weddell</p> <p><i>Path-Based Identification Constraints in Description Logics</i>, Diego Calvanese, Giuseppe De Giacomo, Domenico Lembo, Maurizio Lenzerini, Riccardo Rosati</p> <p><i>RIQ and SROIQ Are Harder than SHOIQ</i>, Yevgeny Kazakov</p> <p><i>How Many Toes Do I Have? Parthood and Number Restrictions in Description Logics</i>, Lutz Schröder, Dirk Pattinson</p>
	Coffee Break	
15:30-17:00	<p>S11: JOINT KR-ICAPS SESSION III (Grand Lodge)</p> <p><i>A Logic for Non-Terminating Golog Programs</i>, Jens Classen, Gerhard Lakemeyer</p> <p><i>ConGolog, Sin Trans: Compiling ConGolog into Basic Action Theories for Planning and Beyond</i>, Christian Fritz, Jorge A. Baier, Sheila A. McIlraith</p> <p><i>On the Relative Expressiveness of ADL and Golog: The Last Piece in the Puzzle</i>, Gabriele Röger, Malte Helmert, Bernhard Nebel</p> <p><i>Behavior Composition in the Presence of Failure</i>, Sebastian Sardina, Fabio Patrizi, Giuseppe De Giacomo</p>	<p>S12: DESCRIPTION LOGICS/ONTOLOGIES III (Doric)</p> <p><i>Can You Tell the Difference Between DL-Lite Ontologies?</i>, Roman Kontchakov, Frank Wolter, Michael Zakharyashev</p> <p><i>Complexity of Abduction in the EL Family of Lightweight Description Logics</i>, Meghyn Bienvenu</p> <p><i>Model-Theoretic Characterization of Asher and Vieu's Ontology of Mereotopology</i>, Torsten Hahmann, Michael Gruninger</p> <p><i>Ontology Generation through the Fusion of Partial Reuse and Relation Extraction</i>, Nwe Ni Tun, Jin Song Dong</p>

Friday September 19

08:45-10:40	<p>S13: AGENTS (Doric)</p> <p><i>Reasoning about Agent Deliberation</i>, Natasha Alechina, Mehdi Dastani, Brian S. Logan, John-Jules Ch. Meyer</p> <p><i>A Logical Framework to Represent and Reason about Graded Preferences and Intentions</i>, Ana Casali, Lluís Godo, Carles Sierra</p> <p><i>A Logical Account of Institutions: From Acceptances to Norms via Legislators</i>, Emiliano Lorini, Dominique Longin</p> <p><i>Promises Kept, Promises Broken: An Axiomatic and Quantitative Treatment of Fulfillment</i>, Gerardo I. Simari, Matthias Broecheler, V.S. Subrahmanian, Sarit Kraus</p> <p><i>Dynamic Logic on Games with Structured Strategies</i>, R. Ramanujam, Sunil Easaw Simon</p>	<p>S14: INCONSISTENCY (Corinth.)</p> <p><i>How to Choose Weightings to Avoid Collisions in a Restricted Penalty Logic</i>, Nathalie Chetcuti-Sperandio, Sylvain Lagrue</p> <p><i>Conflict-Based Merging Operators</i>, Patricia Everaere, Sébastien Konieczny, Pierre Marquis</p> <p><i>Measuring Inconsistency through Minimal Inconsistent Sets</i>, Anthony Hunter, Sébastien Konieczny</p> <p><i>Inconsistency Management Policies</i>, Maria Vanina Martinez, Francesco Parisi, Andrea Pugliese, Gerardo I. Simari, V. S. Subrahmanian</p> <p><i>A Lexicographic Inference for Partially Preordered Belief Bases</i>, Safa Yahi, Salem Benferhat, Sylvain Lagrue, Mariette Sérayet, Odile Papini</p>
	Coffee Break	
11:10-12:10	<p>KR Challenges Session: (Doric)</p> <p>Erik Sandewall: Obtaining Well-Represented Knowledge from the WWW: the Need for Information Analysis</p> <p>Frank van Harmelen: Knowledge Representation in the age of the Web: Why KR will never be the same again</p>	
	Lunch Break	
13:30-15:00	<p>S15: REASONING ABOUT ACTION (Doric)</p> <p><i>Complex Epistemic Modalities in the Situation Calculus</i>, Ryan F. Kelly, Adrian R. Pearce</p> <p><i>Cartesian Situations and Knowledge Decomposition in the Situation Calculus</i>, Ronald P. A. Petrick</p> <p><i>Action Theory Contraction and Minimal Change</i>, Ivan José Varzinczak</p> <p><i>First-Order Strong Progression for Local-Effect Basic Action Theories</i>, Stavros Vassos, Gerhard Lakemeyer, Hector J. Levesque</p>	<p>S16: ARGUMENTATION (Corinth.)</p> <p><i>Peer-to-Peer Query Answering with Inconsistent Knowledge</i>, Arnold Binas, Sheila A. McIlraith</p> <p><i>Making Decisions through Preference-Based Argumentation</i>, Leila Amgoud, Yannis Dimopoulos, Pavlos Moraitis</p> <p><i>Revision of an Argumentation System</i>, Claudette Cayrol, Florence Dupin de Saint-Cyr, Marie-Christine Lagasquie-Schiex</p>
	Coffee Break	
15:30-17:00	<p>S17: APPROXIMATE REASONING AND QUERY ANSWERING (Doric)</p> <p><i>Injecting the How into the What: Investigating a Finite Classical Logic</i>, Timothy L. Hinrichs, Michael R. Genesereth</p> <p><i>Taming the Infinite Chase: Query Answering under Expressive Relational Constraints</i>, Andrea Cali, Georg Gottlob, Michael Kifer</p> <p><i>Accuracy and Efficiency of Fixpoint Methods for Approximate, Query Answering in Locally Complete Databases</i> Álvaro Cortés-Calabuig, Marc Denecker, Ofer Arieli, Maurice Bruynooghe</p> <p><i>Approximate Reasoning in First-Order Logic Theories</i>, Johan Wittocx, Maarten Marién, Marc Denecker</p>	<p>S18: BELIEF CHANGE (Corinth.)</p> <p><i>Equilibria in Social Belief Removal</i>, Richard Booth, Thomas Meyer</p> <p><i>Horn Clause Belief Change: Contraction Functions</i>, James P. Delgrande</p> <p><i>Linking Iterated Belief Change Operations to Nonmonotonic Reasoning</i>, Gabriele Kern-Isberner</p> <p><i>Improvement Operators</i>, Sébastien Konieczny, Ramón Pino Pérez</p>