Automated Reasoning Workshop 2000

Thursday, 20 July 2000

Morning		Chair: Hans Jürgen Ohlbach
9.00	1B27	Registration desk open
10.00	1B06	Session I: *Temporal Reasoning, Model Building* • Anatoli Degtiarev and Michael Fisher *Propositional Temporal Resolution Revised* • Cláudia Nalon *Theorem Proving for Temporal Logics of Knowledge or Belief* • Carmen Gago *Efficient Control of Temporal Reasoning* • Alexander Bolotov *Automata on Infinite Words and Temporal Logic Normal Forms* • Ullrich Hustadt *Practical Proof Methods for Combined Modal and Temporal Logics* • Regimantas Pliuškevičius *A Deductive Decision Procedure for a Restricted FTL* • Markus Moschner *Finite Model Building for Propositional Gödel-Logics as an Example for Projective Logics*
11.00	1B27	Poster presentations for Session I and coffee break
12.00	1B06	Invited talk: Maarten de Rijke (University of Amsterdam) *Modal Experiments*
13.00		Lunch break
Afternoon		Chair: Alan Bundy
14.30	1B06	Session II: *Decidable Fragments, Description Logics, Constraints, Proof Planning* • Lilia Georgieva, Ullrich Hustadt, and Renate Schmidt *Hyperresolution for Guarded Formulae* • Renate Schmidt *Deciding Fluted Logic with Resolution* • Ulrich Endriss *Reasoning in Description Logics with Wellington 1.0* • François Beuvron, Martina Kullmann, David Rudloff, Michael Schlick, and François Rousselot *The Description Logic Reasoner CICLOP (Version 2.0)* • Stefan Schlobach *Description Logics and Knowledge Discovery of Data* • Alan Frisch and Toby Walsh *Automatic Generation of Implied Constraints* • Richard Boulton *Towards Automating Inductive Proofs for State Monads* • Mauricio Osorio, Juan Carlos Nieves, and Gabriel Cervantes *Application of Simplification Theories*
15.30	1B27	Poster presentations for Session II and coffee break
16.30	1B06	Invited talk: Rolf Backofen (Ludwig-Maximilians-Universität München) *Exclusion of Symmetries in Search - A Spin-off from Bioinformatics Research*
18.00		Leaving King's for the *Wheel*; capsules are booked for 18.30
20.00		Buffet at Restaurant Cubana

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Morning		Chair: Alan Frisch
9.00	1B06	Invited talk: Michael Kohlhase (Universität des Saarlandes) *Using Deduction Techniques for Natural Language Understanding*
10.00	1B06	Session III: *Term Algebras, Theorem Proving, Concurrency* • Tatiana Rybina and Andrei Voronkov *A Decision Procedure for Term Algebras with Queues* • Konstantin Korovin and Andrei Voronkov *The Existential Theories of Term Algebras with the Knuth-Bendix Orderings are Decidable* • Alexandre Riazanov and Andrei Voronkov *System Description: Vampire 1.0* • James Harland, David Pym, and Michael Winikoff *Forward and Backward Chaining in Linear Logic* • Allan Ramsay *Run-time Optimisations for Reasoning with Intensional Logics* • Joe Hurd *Congruence Classes with Logic Variables* • Raul Lopes *Automatic Generation of Concurrent Provers* • Christoph Benzmüller, Mateja Jamnik, Manfred Kerber, and Volker Sorge *Resource Guided Concurrent Deduction*
11.00	1B27	Poster presentations for Session III and coffee break
12.00	1B06	Invited talk: Dov Gabbay (King's College London) *Goal Directed Mechanisms: Proofs, Interpolation and Abduction Procedures*
13.00		Lunch break
Afternoon		Chair: Andrei Voronkov
14.30	1B06	Panel: *Advances in Temporal and Description Logics* Moderator: Ullrich Hustadt Participants: Alexander Bolotov, Ulrich Endriss, Martina Kullmann, Regimantas Pliuškevičius, and Stefan Schlobach
16.00	1B27	Coffee break
16.30	1B06	Closing session