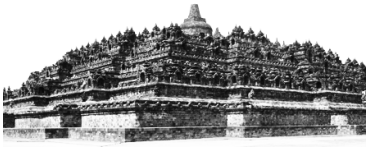
LPAR-17 Program

Revision of Oct. 8 2010

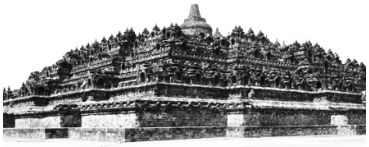


Monday, October 11

8.50 – 9.00	OPENING
	Chair: Andrei Voronkov
9.00 – 9.50	INVITED TALK Krishnendu Chatterjee: *The Complexity of Partial-Observation Parity Games*
9.50 – 10.15	Thomas A. Henzinger, Thibaud Hottelier, Laura Kovács, Andrey Rybalchenko: *Aligators for Arrays*
10.15 – 10.40	Michael Codish, Carsten Fuhs, Jürgen Giesl, Peter Schneider-Kamp: *Lazy Abstraction for Size-Change Termination*
10.40 – 11.10	COFFEE BREAK
	Chair: Gert Smolka
11.10 – 11.35	Tino Teige, Martin Fränzle: *Resolution for Stochastic Boolean Satisfiability*
11.35 – 12.00	Franz Baader, Barbara Morawska: *SAT Encoding of Unification in $\mathcal{EL}$*
12.00 – 12.25	Norbert Manthey, Steffen Hölldobler, Ari Saptawijaya: *Improving Resource-Unaware SAT Solvers*
12.30 – 14.00	LUNCH
	Chair: Steffen Hölldobler
14.00 – 14.25	Mutsunori Banbara, Haruki Matsunaka, Naoyuki Tamura, Katsumi Inoue: *Generating Combinatorial Test Cases by Efficient SAT Encodings Suitable for CDCL SAT Solvers*
14.25 – 14.50	Antti Hyvärinen, Tommi Junttila, Ilkka Niemelä: *Partitioning SAT Instances for Distributed Solving*
14.50 – 15.20	3 SHORT PAPERS
	Uwe Pfeiffer, Tomas Karnagel, Guido Scheffler: *A Sudoku-Solver for Large Puzzles using SAT*
	Matthias Baaz, Oliver Fasching: *Gödel logics with an operator shifting truth value*
	Hannes Strass, Michael Thielscher: *Default Reasoning in Action Domains with Conditional, Non-Local Effect Actions*
15.20 – 16.00	COFFEE BREAK
	Chair: Eugenia Ternovska
16.00 – 16.25	Claire David, Leonid Libkin, Tony Tan: *On the Satisfiability of Two-Variable Logic over Data Words*
16.25 – 16.50	Kaustuv Chaudhuri: *Magically Constraining the Inverse Method with Dynamic Polarity Assignment*
16.50 – 17.15	Marijn Heule, Matti Järvisalo, Armin Biere: *Clause Elimination Procedures for CNF Formulas*
17.15 – 17.25	Marijn Heule, Matti Järvisalo, Armin Biere: *Covered Clause Elimination* (SHORT PAPER)

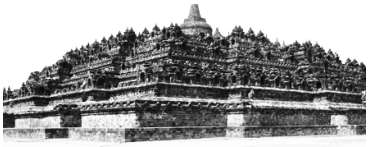
LPAR-17 Program

Revision of Oct. 8 2010



Tuesday, October 12

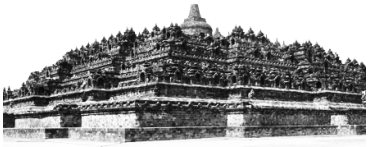
	Chair: Chris Fermüller
9.00 – 9.50	INVITED TALK Joseph Y. Halpern: *Awareness in Logic, Awareness in Games*
9.50 – 10.15	Franz Baader, Marcel Lippmann, Hongkai Liu: *Using Causal Relationships to Deal with the Ramification Problem in Action Formalisms Based on Description Logics*
10.15 – 10.40	Jean Marie Lagniez, Gilles Audemard, Bertrand Mazure, Lakhdar Saïs: *Boosting Local Search Thanks to CDCL*
10.40 – 11.10	COFFEE BREAK
	Chair: Jasmin Blanchette
11.10 – 11.35	Roland Axelsson, Matthew Hague, Stephan Kreutzer, Martin Lange, Markus Latte: *Extended Computation Tree Logic*
11.35 – 12.00	Yuxin Deng, Rob van Glabbeek: *Characterising Probabilistic Processes Logically*
12.00 – 12.25	Antonina Kolokolova, Yongmei Liu, David Mitchell, Eugenia Ternovska: *On the Complexity of Model Expansion*
12.30 – 14.00	LUNCH
	Chair: Michel Parigot
14.00 – 14.25	Andreas Reuß, Helmut Seidl: *Bottom-Up Tree Automata with Term Constraints*
14.25 – 14.50	Jasmin Christian Blanchette, Koen Claessen: *Generating Counterexamples for Structural Inductions by Exploiting Nonstandard Models*
14.50 – 15.30	4 SHORT PAPERS Jasmin Christian Blanchette: *Nitpick: A Counterexample Generator for Isabelle/HOL Based on the Relational Model Finder Kodkod* Sara L. Uckelman, Jesse Alama: *Playing Lorenzen Dialogue Games on the Web* Sara L. Uckelman, Jesse Alama: *Proof rules for the dialogical logic N* Beishui Liao, Li Jin, Robert Koons: *Dynamics of Argumentation Systems: A Basic Theory*
15.30 – 16.00	COFFEE BREAK
	Chair: Georg Moser
16.00 – 16.25	Jean-Pierre Jouannaud, Benjamin Monate: *Infinite Families of Finite String Rewriting Systems and Their Confluence*
16.25 – 16.50	Camilo Rocha, José Meseguer: *Constructors, Sufficient Completeness, and Deadlock Freedom of Rewrite Theories*
16.50 – 17.15	Dejan Jovanović, Clark Barrett: *Polite Theories Revisited*



Wednesday, October 13

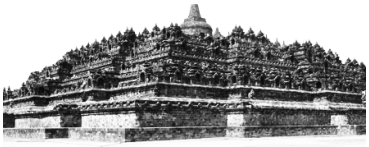
On Wednesday there will be the excursion to Borobodur, Prambanan, and more, followed by dinner at the Joyokusomo Prince House. See `http://www.computational-logic.org/lpar-17/Social_Events.html`.

7.30	Departure for the excursion from the lobby of the Hyatt Regency Hotel



Thursday, October 14

	Chair: Mike Codish
9.00 – 9.50	INVITED TALK Michael J. Maher: *Human and Unhuman Commonsense Reasoning*
9.50 – 10.15	Régis Alenda, Nicola Olivetti: *Tableau Calculus for the Logic of Comparative Similarity over Arbitrary Distance spaces*
10.15 – 10.40	Shahab Tasharrofi, Eugenia Ternovska: *PBINT, a Logic for Modelling Search Problems Involving Arithmetic*
10.40 – 11.10	COFFEE BREAK
	Chair: Jean-Pierre Jouannaud
11.10 – 11.35	Friedrich Neurauter, Harald Zankl, Aart Middeldorp: *Revisiting Matrix Interpretations for Polynomial Derivational Complexity of Term Rewriting*
11.35 – 12.00	Guillaume Bonfante, Georg Moser: *Characterising Space Complexity Classes via Knuth-Bendix Orders*
12.00 – 12.25	Konstantin Korovin, Christoph Sticksel: *Labelled Unit Superposition Calculi for Instantiation-based Reasoning*
12.30 – 14.00	LUNCH
	Chair: Christoph Sticksel
14.00 – 14.25	Daniel Kroening, Jérome Leroux, Philipp Rümmer: *Interpolating Quantifier-Free Presburger Arithmetic*
14.25 – 14.50	Petros Papapanagiotou, Jacques Fleuriot: *An Isabelle-Like Procedural Mode for HOL Light*
14.50 – 15.15	Arnaud Fietzke, Holger Hermanns, Christoph Weidenbach: *Superposition-Based Analysis of First-Order Probabilistic Timed Automata*
15.15 – 15.40	Margus Veanes, Nikolaj Bjørner, Leonardo de Moura: *Symbolic Automata Constraint Solving*
15.40 – 16.00	COFFEE BREAK
	Chair: Aart Middeldorp
16.00 – 16.25	Richard McKinley: *Expansion Nets: Proof Nets for for Propositional Classical Logic*
16.25 – 16.50	Benjamin Grégoire, Jorge Luis Sacchini: *On Strong Normalization of the Calculus of Constructions with Type-Based Termination*
16.50 – 17.15	Kai Brünnler: *How to Universally Close the Existential Rule*



Friday, October 15

	Chair: Petr Cintula
9.00 – 9.50	INVITED TUTORIAL Norbert Preining: *Gödel Logics – A Survey*
9.50 – 10.15	Pavel Klinov, Bijan Parsia, David Picado-Muiño: *The Consistency of the CADIAG-2 Knowledge Base: A Probabilistic Approach*
10.15 – 10.40	Jean-François Condotta, Souhila Kaci, Pierre Marquis, Nicolas Schwind: *A Syntactical Approach to Qualitative Constraint Networks Merging*
10.40 – 11.10	COFFEE BREAK
	Chair: Laura Kovacs
11.10 – 11.35	Mark Kaminski, Gert Smolka: *Clausal Graph Tableaux for Hybrid Logic with Eventualities and Difference*
11.35 – 12.00	Jeremy E. Dawson, Rajeev Goré: *Generic Methods for Formalising Sequent Calculi Applied to Provability Logic*
12.00 – 12.25	Taus Brock-Nannestad, Carsten Schürmann: *Focused Natural Deduction*
12.30 – 14.00	LUNCH
	Chair: Konstantin Korovin
14.00 – 14.25	Laura Girodano, Valentina Gliozzi, Nicola Olivetti, Gian Luca Pozzato: *A nonmonotonic extension of KLM Preferential Logic P*
14.25 – 14.50	Mauro Ferrari, Camillo Fiorentini, Guido Fiorino: fCube*: An Efficient Prover for Intuitionistic Propositional Logic*
14.50 – 15.30	4 SHORT PAPERS
	Libor Behounek: *Feasibility as a gradual notion*
	Petr Cintula, George Metcalfe: *Complexity of Admissible Rules in the Implication-Negation Fragment of Intuitionistic Logic*
	Karel Chvalovský, Petr Cintula: *Note on Deduction Theorems in Contraction-Free Logics*
	Sylvain Conchon, Evelyne Contejean, Iguernelala Mohamed: *Ground Associative and Commutative Completion Modulo Shostak Theories*
15.30 – 16.00	COFFEE BREAK
	Chair: Chris Fermüller
16.00 – 16.25	Theofrastos Mantadelis, Gerda Janssens: *Variable Compression in ProbLog*
16.25 – 16.50	Witold Charatonik, Piotr Witkowski: *On the Complexity of the Bernays-Schönfinkel Class with Datalog*