

Day	Saturday June 30th							Day	
Workshop	Practical Aspects of Automated Reasoning (PAAR 2012)	Proof eXchange for Theorem Proving (PxTP 2012)	Workshop on Automated Theory Exploration (ATX 2012)	Workshop on Invariant Generation (WING 2012)	Satisfiability Modulo Theories (SMT 2012)	Workshop on Synthesis, Verification and Analysis of Rich Models (SVARM 2012) Joint with Verification Workshop (VERIFY 2012)	The 1st International Workshop on Comparative Empirical Evaluation of Reasoning Systems (COMPARE 2012)	Workshop	
Organisers	Pascal Fontaine, Renate A. Schmidt, Stephan Schulz	David Pichardie, Tjark Weber	Jacques Fleuriot, Peter Höfner, Annabelle McIver, Alan Smaili	Gudmund Grov and Thomas Wies	Pascal Fontaine, Amit Goel	Viktor Kuncak, Carsten Sinz	Bernhard Beckert, Armin Biere, Vladimir Klebanov, Geoff Sutcliffe	Organisers	
Room	Kilburn Building: Lecture Theatre 1.3	Kilburn Building: Mercury	Kilburn Building: 1.5		Kilburn Building: Lecture Theatre 1.1	Kilburn Building: Lecture Theatre 1.4	Kilburn Building: Atlas 1	Room	
08:30-09:00								08:30-09:00	
09:00-10:00	Invited Talk: Boris Motik Building an Efficient OWL 2 DL Reasoner	Invited Talk: Robert L. Constable Proof Assistants and the Dynamic Nature of Formal Theories (Kilburn Bid: Lecture Theatre 1.5)	Invited Talk: Aditya Nori Specification Inference and Invariant Generation: A Machine Learning Perspective (Kilburn Bid: Mercury)	Invited Talk: Natarajan Shankar The Architecture of Inference from SMT to ETB	Invited Talk: Leonardo de Moura Regression Tests and the Inventor's Dilemma (Kilburn Bid: Lecture Theatre 1.4)			09:00-10:00	
10:00-10:30	Coffee Break							10:00-10:30	
10:30-11:00	D. Kuehlwein, J. Urban: Learning from Multiple Proofs: First Experiments Kilburn Building: Lecture Theatre 1.3		* D. Larraz, E. Rodríguez-Carbonell, A. Rubio: SMT-Based Array Invariant Generation (WING 20min)	C. Dross, S. Conchon, J. König, A. Paskevich: Reasoning with Triggers	A. Zeljic, Ph. Rümmer: Experiments with Automated Strategy Selection in a Theorem Prover	F. Merz, C. Sinz, S. Falke: Challenges in Comparing Software Verification Tools for C		10:30-11:00	
11:00-11:30	J. Alama: Escape to Mizar from ATPs Kilburn Building: Lecture Theatre 1.3		* P. Garoche, T.Kahsal, C. Tinelli: Invariant Stream Generators using Automatic Abstract Transformers based on a Decidable Logic (WING 20min)	A.-D. Phan, N. Bjerner D. Monniaux: Anatomy of Alternating Quantifier Satisfiability (Work in progress)	M. P. Bonacina and N. Dershowitz: Abstract Canonical Inference: On Fairness in Theorem Proving	P. Cuog, F. Kirchner, B. Yakobowski: Benchmarking static analyzers		11:00-11:30	
11:30-12:00	C. Kaliszky, J. Urban: Initial Experiments with External Provers and Premise Selection on HOL Light Corpora Kilburn Building: Lecture Theatre 1.3		* R. McCasland: Automated Theorem Discovery: a Case Study (ATX 30min)	S. Falke, C. Sinz, F. Merz: A Theory of Arrays with set and copy Operations	M. Nikolic, P. Janicic: CDCL-Based Abstract State Transition System for Coherent Logic	E. André, B. Barbot, C. Démouillins, L. M. Hillah, F. Hulin-Hubard, F. Jordan, L. Petrucci: Towards Unified Mechanisms for Defining and Sharing Formal Notations for Concurrency		11:30-12:00	
12:00-13:30	Lunch Break							12:00-13:30	
13:30-14:00	D. Tishkovsky, R. A. Schmidt, M. Khodadadi: MetTeL2: Towards a Tableau Prover Generation Platform	Invited Talk: Stephan Merz Proofs and Proof Certification in the TLA+ Proof System	* F. Gretz, J. Katoen, A. McIver: Prinsys - A Software Tool for the Synthesis of Probabilistic Invariants (WING 20min)		C. Colombo, G. Pace: Monitoring-Oriented Compensation Programming	R. Bruttomesso, A. Griggio: Broadening the Scope of SMT-COMP: the Application Track		13:30-14:00	
14:00-14:30	S. Minica, M. Khodadadi, R. A. Schmidt, D. Tishkovsky: Synthesising and Implementing Tableau Calculi for Interrogative Epistemic Logics		* Y. Lin, A. Bundy, G. Grov: The Use of Rippling to Automate Event-B Invariant Preservation Proofs (ATX 30min)	M. Codish, Y. Fekete, C. Fuhs, J. Giesl, J. Waldmann: Exotic Semi-Ring Constraints	D. Monniaux, J. Henry, M. Moy, L. Gonnord: Path-focused analysis of numerical transitions	O. Roussel: Behind the Scene of Solvers Competitions: the "evaluation" Experience		14:00-14:30	
14:30-15:00	C. Benzmueller, J. Otten, T. Raths: Implementing Different Proof Calculi for First order Modal Logics	A. Stump, A. Reynolds, C. Tinelli, A. Laugesen, H. D. Eades III, C. Oliver, R. Zhang: LFSC for SMT Proofs: Work in Progress	* R. Murali, A. Ireland: E-SPARK: Automated Generation of Verifiable Code from Formally Verified Designs (WING 20min)	* A. Ilasov: Augmenting Formal Development with Use Case Reasoning (WING 20min)	S. Conchon, G. Melgulond, C. Roux, M. Iguernelala: Built-in Treatment of an Axiomatic Floating-Point Theory for SMT Solvers	P. Jackson: Better Real Arithmetic Provers for Hybrid Systems Verification	Invited Talk: C. Tinelli Introducing StarExec: a Cross-Community Infrastructure for Logic Solving	14:30-15:00	
15:00-15:30	Coffee Break							15:00-15:30	
15:30-16:00	A. Leitsch, T. Libal: A Resolution Calculus for Second-order Logic with Eager Unification	M. Boespflug, Q. Carbonneaux, O. Hermant: The lambda-Pi-calculus Modulo as a Universal Proof Language	Antoine Mine Invited Astree Tutorial and Paper: Abstract Domains for Bit-Level Machine Integer and Floating-point Operations (WING)	SMT-LIB + SMT-COMP + Business Meeting		COST-Action "Rich-Model Toolkit" Management Committee Meeting	Open Problems Session (Part I) Participants propose open problems to be worked on in small groups	A. Pease, S. Schulz: Automated Large Knowledge Base Problem Creation for CASc	15:30-16:00
16:00-16:30	M. Seidl, F. Lonsing, A. Biere: qb2epr: A Tool for Generating EPR Formulas from QBF	M. Boespflug, G. Burel: CoqInE: Translating the Calculus of Inductive Constructions into the lambda Pi-calculus Modulo					Z. Cheng, R. Monahan, J. Power: A Simple Complexity Measurement for Software Verification and Software Testing	16:00-16:30	
16:30-17:00	C. Weidenbach, P. Wischniewski: Satisfiability Checking and Query Answering for large Ontologies	R. Rukhala, C. Dunchev, A. Leitsch, D. Weller, T. Libal, M. Biener, B. Woltzenlogel-Pelaez: System Feature Description: Importing Refutations into the GAPT Framework	* O. Tinn: Faster Automatic Test Case Generation (WING 20min)				J.-C. Filliatre, A. Paskevich, A. Stump: The 2nd Verified Software Competition: Experience Report	16:30-17:00	
17:00-17:30		R. Saillard, F. Besson, P.-E. Cornilleau: Walking through the Forest: a Fast EUF Proof Checking Algorithm	* L. Labeled Jilani, W. Ghardallou, A. Milli: Conclusive Proofs of While Loops Using Invariant Relations (WING 20min)				B. Beckert, S. Grebing: Evaluating the Usability of Interactive Verification Systems	17:00-17:30	
17:30-18:00			* M. Li: Formal Characterization and Verification of Loop Invariant Based on Finite Difference (WING 20min)				M. Huisman, V. Klebanov, R. Monahan: On the Organisation of Program Verification Competitions	17:30-18:00	
18:00-18:30								18:00-18:30	
Day	Saturday June 30th							Day	

Sunday July 1st									Day
Day									Day
Workshop	International Workshop on Strategies in Rewriting, Proving and Programming (IWS 2012)	Workshop on Synthesis, Verification and Analysis of Rich Models (SVARM 2012) Joint with Verification Workshop (VERIFY 2012)	Satisfiability Modulo Theories (SMT 2012)	Practical Aspects of Automated Reasoning (PAAR 2012) with a special session on Automated Reasoning for Enterprise Information Systems	Workshop on Automated Theory Exploration (ATX 2012)	Workshop on Unification (UNIF 2012)	StarExec	OWL Reasoner Evaluation Workshop (ORE 2012)	Workshop
Organisers	Maria Paola Bonacina, Maribel Fernandez	Viktor Kuncak, Carsten Sinz	Pascal Fontaine, Amit Goel	Pascal Fontaine, Renate A. Schmidt, Stephan Schulz and Peter Baumgartner and Silvio Ranise	Jacques Fleuriot, Peter Höfner, Annabelle McIver, Alan Small	Santiago Escobar, Konstantin Korovin, Vladimir Rybakov	Aaron Stump, Cesare Tinelli, Geoff Sutcliffe	Ian Horrocks, Mikalai Yatskevich and Ernesto Jiménez-Ruiz	Organisers
Room	Kilburn Building: Mercury	Kilburn Building: Lecture Theatre 1.4	Kilburn Building: Lecture Theatre 1.1	Kilburn Building: Lecture Theatre 1.3	Kilburn Building: Lecture Theatre 1.5	Kilburn Building: Room 2.15	Kilburn Building: Atlas 1	Kilburn Building: Room 2.19	Room
08:30-09:00									08:30-09:00
09:00-10:00	Invited Talk: Helene Kirchner A rewriting point of view on strategies (Kilburn Bld: Lecture Theatre 1.4)		Invited Talk: Armin Biere Practical Aspects of SAT Solving (Kilburn Bld: Lecture Theatre 1.1)		A. Small: Theory Exploration: a Role for Model Theory? K. Claessen, M. Johansson, D. Rosen, N. Smallbone: HipSpec: Automated Inductive Proofs of Program Properties	Invited Talk: Franz Baader Unification and Related Problems in Modal and Description Logics	C. Tinelli: The StarExec Vision B. McCune: The StarExec Implementation	Welcome and Paper Presentation Session (Paper 1-8)	09:00-10:00
10:00-10:30	Coffee Break								10:00-10:30
10:30-11:00	L. de Moura, G. Passmore: The Strategy Challenge in SMT Solving: Part I: Motivating the Strategy Challenge	B. Beckert, D. Bruns, V. Klebanov, P.H. Schmitt, C. Scheben, M. Ulbrich: Secure Information Flow for Java: A Dynamic Logic Approach	N. Bjørner, V. Ganesh, R. Michel, M. Veanes: SMT-LIB Sequences and Regular Expressions	D. Barbosa de Oliveira, D. Monniaux: Experiments on the feasibility of using a floating-point simplex in an SMT solver	R. Neumann: A Framework for Verified Depth-First Algorithms	F. Baader, S. Borgwardt, B. Morawska: Recent Advances in Unification for the EL Family	Practicum: Attendees use StarExec	Paper Presentation Session (Paper 9-14)	10:30-11:00
11:00-11:30	L. de Moura, G. Passmore: The Strategy Challenge in SMT Solving: Part II: Applications of Strategy in SMT	S. Ratschan: Certificates for Reachability and Progress of Discrete and Continuous Systems	F. Alberti, R. Bruttomesso, S. Ghilardi, S. Ranise, N. Sharygina: Reachability Modulo Theory Library	T. Liang, C. Tinelli: Exploiting parallelism in the Model Evolution calculus	J. Alama: Tipi: A TPTP-based Theory Development Environment Emphasizing Proof Analysis	S. Erbatar, S. Escobar, P. Narendran: Unification modulo a property of the El Gamal Encryption Scheme		Poster and Demo Session (11:00 - 12:15) (next to coffee break area)	11:00-11:30
11:30-12:00	S. Schulz: Simple and Efficient Clause Subsumption with Feature Vector Indexing	A. Niemetz, M. Preiner, F. Lonsing, M. Seidl, A. Biere: Scalable Certificate Extraction for QBF	N. Bjørner, K. McMillan, A. Rybalchenko: Program Verification as Satisfiability Modulo Theories	A. Monnet, Roger Villemaire: CDCL with Less Destructive Backtracking through Partial Ordering	A. Adams, D. Aspinall: Recording and Refactoring HOL Light Tactic Proofs	C. Bouchard, K. A. Gero, P. Narendran: Some Notes on Basic Syntactic Mutation	Feedback on Use of StarExec	Discussion and wrap-up	11:30-12:00
12:00-13:30	Lunch Break								12:00-13:30
13:30-14:00	Invited Talk: Renate A. Schmidt Refinements and Search Strategies for Semantic Tableaux with Blocking	S. Wiering: Reviewing the Results of the Hardware Model Checking Competition 2011	T. Kahsal, Y. Ge, C. Tinelli: Instantiation-Based Invariant Discovery	R. Gore, J. Thomson: BDD-based Automated Reasoning in Propositional Non-Classical Logics: Progress Report	A. Merry, M. Soloviev: Rewriting Pattern Graphs	Invited Talk: Emil Jeřábek Rules with parameters in modal logic	Presentations by Logic Solver Community Leaders: Armin Biere (HWM), Giovambattista Ianni (ASP), Johannes Waldmann (Termination), ...		13:30-14:00
14:00-14:30	M. Seidl: Model Checking UML Models: State-of-the-Art and Challenges	A. Goel, S. Krstic, R. Leslie, M. Tuttle: SMT-Based System Verification with DVF	M. Z. Islam, W. MacCaull: A One-Pass Tableau-Based Workflow Verification Framework	A. Kissinger: Synthesising Graphical Theories	14:00-14:30				
14:30-15:00	D. Kapur, Z. Zhang, H. Zhao, M. Horbach, Q. Lu, T. Nguyen: Geometric Quantifier	S. Falke, F. Merz, C. Sinz: Simplification Techniques in Software Bounded Model Checking	R. Michel, V. Ganesh, A. Hubaux, P. Heymans: An SMT-based approach to automated configuration	J. Crampton, M. Huth, J. Huan-Pu Kuo: Authorization Enforcement in Workflows: Maintaining Realizability Via Automated Reasoning	J. L. Sacchini, I. Cervesato, F. Pfening, C. Schürmann, R. J. Simmons: On Matching Concurrent Traces	14:30-15:00			
15:00-15:30	Coffee Break								15:00-15:30
15:30-16:00	M. Echenim, N. Peltier, S. Tourret: A Superposition Strategy for Abductive Reasoning in Ground Equational Logic	E. Jähren: SAT-based Techniques for the Car Sequencing Problem	G. Kovásznai, A. Fröhlich, A. Biere: On the Complexity of Fixed-Size Bit-Vector Logics with Binary Encoded Bit-Width			G. Metcalfe, C. Röthlisberger: Experiments in Admissibility	Panel and Discussion: Geoff Sutcliffe (Moderator), David Cok (SMT-COMP), Andrei Paskevich (Why3), Stephan Schulz (E-prover), Michael Tautschnig (SV-COMP)		15:30-16:00
16:00-16:30	T. Genet, Y. Salmon: Proving Reachability Properties on Term Rewriting Systems with Strategies	A. Bauer, P. Baumgartner, M. Norrish: Reasoning with Data-Centric Business Processes	M. A. Aziz, A. Wassal, N. Darwish: A Machine Learning Technique for Hardness Estimation of QFVB SMT Problems			L. M. Cabrer: Admissibility and unification in subvarieties of pseudocomplemented lattices			16:00-16:30
16:30-17:00	D. Kuehwein, J. Urban, S. Schulz: Experiments with Strategy Learning for E Prover	Intervall					T. Libal: Bounded Second-Order Unification Using Regular Terms		16:30-17:00
17:00-17:30	Closing session and farewell						Business Meeting		17:00-17:30
17:30-18:00									17:30-18:00
18:00-18:30									18:00-18:30
Day	Sunday July 1st								Day