Monday, 14.09.2015

09:15-09:30  Organizers Welcome

09:30-10:00  Geoff Sutcliffe, University of Miami, US  
The TMTP - Thousands of Models for Theorem Provers

10:00-10:30  Silvio Ghilardi, University of Milan, IT  
Quantified Array Fragments: Decision Results and Applications

10:30-11:00  Coffee break

11:00-11:30  Christopher Lynch, Clarkson University - Potsdam, US  
Hyperresolution modulo Horn Clauses – generating infinite models

11:30-12:00  Burkhart Wolff, University Paris South, FR.  
Monadic Test sequence generation for Pike OS

12:00-14:00  Lunch

14:00-15:30  Introductory round where participants present one slide appetizers on topics they would like to present and/or topics they would not like to present in depth, but be known.

15:30-16:15  Tea/Coffee + cake

16:15-16:45  Christoph Benzmüller, FU Berlin, DE  
Higher-Order Proofs and Models -- Examples from Meta-Logical Reasoning and Metaphysics

16:45-17:15  Arie Gurfinkel, Carnegie Mellon University - Pittsburgh, US  
Parametric Symbolic Reachability
Tuesday, 15.09.2015

09:15-09:45 Matthias Horbach, MPI für Informatik - Saarbrücken, DE
Saturation Theorem Proving for Herbrand Models

09:45-10:15 Alberto Griggio, Bruno Kessler Foundation - Trento, IT
SAT-Based Parameter Synthesis and Optimization

10:15-10:45 Coffee Break

10:45-11:15 Andrey Rybalchenko, Microsoft Research UK - Cambridge, GB
Cardinalities and Quantifiers in Horn Constraints

11:15-11:45 Reiner Hähnle, TU Darmstadt, DE
Exploit Generation for Information Flow Leaks in Object-Oriented Programs

11:45-12:15 Gilles Reger, University of Manchester, GB
Proof Attempts Cooperating via Models

12:15-14:00 Lunch

14:00-14:30 Jürgen Giesl, RWTH Aachen, DE
Using Information from Deduction for Complexity Analysis

14:30-15:00 Carsten Fuhs, University of London, GB
Automatic Proofs of Termination and Memory Safety for Programs with Pointer Arithmetic

15:00-15:30 Aart Middeldorp, Universität Innsbruck, AT
Confluence and Certification

15:30-16:15 Coffee/Tea & Cake

16:15-16:45 Peter Baumgartner, NICTA - Canberra, AU
CDCL as Saturation

16:45-17:15 Bruno Dutertre, SRI - Menlo Park, US
An Overview of Models in Yices
Wednesday, 16.09.2015

09:15-09:45 Tobias Nipkow, TU München, DE  
*Mining the Archive of Formal Proofs*

09:45-10:15 Christian Sternagel, Universität Innsbruck, AT  
*Verified AC-Equivalence Checking in Isabelle/HOL*

10:15-10:45 Coffee Break

10:45-11:15 Zachary Kincaid, University of Toronto, CA  
*Optimization modulo quantified linear rational arithmetic*

11:15-11:45 Albert Oliveras, UPC - Barcelona, ES  
*SMT-Based Methods for Difference Logic Invariant Generation*

11:45-12:15 Christoph Weidenbach, MPI für Informatik - Saarbrücken, DE  
*Learn Fresh: Model-Guided Inferences*

12:15-14:00 Lunch

18:00-18:15 Bus Journey Dagstuhl-Siterath  
18:15-23:00 Dinner at the Landgasthof Paulus  
23:00-23:15 Bus Journey Siterath-Dagstuhl

Costs:  
Bus: 9.00 EUR/Person (to be paid in the bus)  
Dinner: 38.50 EUR/Person + drinks  
(payment at the restaurant)
Thursday, 17.09.2015

09:00-09:30  Catherine Dubois, ENSIIE - Evry, FR  
Formally verified constraint solvers

09:30-10:00  Swen Jacobs, Universität des Saarlandes, DE  
SMT-based Reactive Synthesis

10:00-10:15  Albert Rubio, UPC - Barcelona, ES  
Compositional Program Analysis using Max-SMT [short talk]

10:15-10:45  Coffee Break

10:45-11:15  Cesare Tinelli, University of Iowa - Iowa City, US  
Conflict-based Quantifier Instantiation for SMT

11:15-11:45  Liana Hadarean, University of Oxford, GB  
Logical Framework with Side-Conditions for SMT proofs

11:45-12:15  Martin Bromberger, MPI für Informatik - Saarbrücken, DE  
Tips and Tricks in LIA constraint solving

12:15-14:00  Lunch

14:00-14:30  Stephan Schulz, Duale Hochschule Baden-Württemberg - Stuttgart, DE  
(Efficiently) Generating Derivations

14:30-15:00  Jian Zhang, Chinese Academy of Sciences - Beijing, CN  
Finite Model Searching Combined with Proof Search

15:00-15:30  Sarah Winkler, Microsoft UK  
Partial Models for More Proofs?

15:30-16:15  Tea/Coffee + Cake

16:15-16:45  Deepak Kapur, University of New Mexico - Albuquerque, US  
Interpolation Synthesis for Quadratic Polynomial Inequalities and combination with EUF

16:45-17:15  Konstantin Korovin, University of Manchester, GB  
EPR-based BMC and k-induction with Counterexample Guided Abstraction Refinement

17:15-17:30  Nikolaj S. Bjørner, Microsoft Corporation - Redmond, US  
Playing with Quantified Satisfiability (using Models and Cores) [short talk]

17:30-17:45  Andrey Rybalchenko, Microsoft Research UK - Cambridge, GB  
Houdini with predicate abstraction and sl0n [short talk]
Friday, 18.09.2015

09:00-09:30 Dejan Jovanovic, SRI - Menlo Park, US
Sally: an Infinite-State Model-checker

09:30-10:00 Andrei Paskevich, University Paris South, FR
How to avoid proving the absence of integer overflows

10:00-10:30 Viorica Sofronie-Stokkermans, Universität Koblenz-Landau, DE
Exploiting Locality in Parametric Verification

10:30-11:00 Coffee Break

11:00-11:30 Noran Azmy, MPI für Informatik - Saarbrücken, DE
Formal Verification of Pastry Using TLA+

11:30-11:45 George Karpenkov, Université de Grenoble, FR
Obtaining invariants with Formula Slicing [short talk]

11:45-12:00 Christoph Benzmüller, FU Berlin, DE
Utilizing Countermodels from Nitpick in Meta-Logical Reasoning [short talk]

12:00-12:15 Jasmin Christian Blanchette, INRIA Lorraine - Nancy, FR
Semi-intelligible Isar Proofs from Machine-Generated Proofs [short talk]

12:15: Lunch and departure