



SCHLOSS DAGSTUHL  
Leibniz-Zentrum für Informatik

31 March - 4 April

## Reachability Problems for Infinite-State Systems

### Schedule

#### *Monday 31 March*

**0900**      **Opening/Introduction**

0930      Survey: Jérôme Leroux

**1030**      **Coffee break**

1045      Michael Blondin

*Handling Infinitely Branching WSTS*

1115      Christoph Haase

*Subclasses of Presburger Arithmetic and the Weak EXP*

1145      Petr Jancar

*Equivalences of Deterministic Systems as Reachability Problems*

**1215**      **Lunch and discussions**

**1530**      **Cake break**

1600      Giorgio Delzanno

*Infinite-State Model Checking with Data Recycling*

1630      Barbara König

*Well-Structured Graph Transformation Systems*

**1700**      **Break**

1715      Peter Habermehl

*Temporal Logics and Automata on Multi-attributed Data Words with Ordered Navigation*

**1800**      **Dinner**



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#### *Tuesday 1 April*

0900	Survey: Sylvain Schmitz	
1000	Philippe Schnoebelen	<i>Ackermann-hardness for Monotone Counter Systems</i>
<b>1030</b>	<b>Coffee break</b>	
1045	Ranko Lazic	<i>Non-Elementary Complexities for Branching VASS, MELL, and Extensions</i>
1115	Richard Mayr	<i>Deciding Coverability in Non-monotone Infinite-state Systems</i>
1145	Fernando Rosa-Velardo	<i>Unordered Data Nets are as Hard as Lossy Channel Systems</i>
<b>1215</b>	<b>Lunch and discussions</b>	
<b>1530</b>	<b>Cake break</b>	
1600	Jeffrey Shallit	<i>Critical Exponents of <math>k</math>-automatic Words and Generalizations</i>
1630	Igor Potapov	<i>Reachability Problems for Braids, Knots, and Links - New Challenges for Computer Science</i>
<b>1700</b>	<b>Break</b>	
1715	Mohammad-Faouzi Atig	<i>Timed Pushdown Automata</i>
1745	Diego Figueira	<i>Reasoning About Data Repetitions with Counter Systems</i>
<b>1800</b>	<b>Dinner</b>	



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#### *Wednesday 2 April*

0900	Survey: Joel Ouaknine	
1000	Radu Iosif	<i>Safety Problems are NP-complete for Flat Integer Programs with Octagonal Loops</i>
<b>1030</b>	<b>Coffee break</b>	
1045	James Worrell	<i>Ultimate Positivity is Decidable for Simple Linear Recurrent Sequences</i>
1115	Bernard Boigelot	<i>Symbolic Hybrid Transduction</i>
1145	Amir Ben-Amram	<i>Linear Ranking Functions for Loops with a Precondition</i>
<b>1215</b>	<b>Lunch and excursion</b>	
<b>1800</b>	<b>Dinner</b>	



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#### *Thursday 3 April*

0900	Survey: Wolfgang Thomas	
1000	Véronique Bruyère	<i>Secure Equilibria in Weighted Games</i>
<b>1030</b>	<b>Coffee break</b>	
1045	Laurent Doyen	<i>Reachability in Partial-Observation Stochastic Games</i>
1115	Mikolaj Bojanczyk	<i>Looping Over Infinite Structures</i>
1145	Slawomir Lasota	<i>Turing Machines Over Infinite Alphabets</i>
<b>1215</b>	<b>Lunch and discussions</b>	
<b>1530</b>	<b>Cake break</b>	
1600	Igor Walukiewicz	<i>Models of the lambda-calculus for Weak Monadic Second-Order Logic</i>
1630	Olivier Bournez	<i>On the Hardness of Solving Ordinary Differential Equations</i>
<b>1645</b>	<b>Break</b>	
1715	Jean Goubault-Larrecq	<i>The VJGL Lemma</i>
1745	Tomas Brazdil	<i>Zero-Reachability in Probabilistic Multi-Counter Automata</i>
<b>1800</b>	<b>Dinner</b>	



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#### *Friday 4 April*

0900	Talks
<b>1030</b>	<b>Coffee break</b>
1045	Talks
<b>1215</b>	<b>Lunch and leave</b>