

RP 2015 Program

Monday, September 21

9:30 – 10:30 **Invited talk**

- Jerome Leroux. *Vector Addition Systems Howto*

10:30 – 11:00 **Coffee break**

11:00 – 12:30 **Contributed talks**

- Jerome Leroux, Grégoire Sutre and Patrick Totzke. *On Boundedness Problems for Pushdown Vector Addition Systems*
- Georg Zetsche. *The Emptiness Problem for Valence Automata Over Graph Monoids or: Another Extension of Petri Nets With Decidable Reachability*
- Ranko Lazic and Sylvain Schmitz. *The Ideal View on Rackoff's Coverability Technique*

12:30 – 14:00 **Lunch**

14:00 – 15:00 **Invited talk**

- Andrey Rybalchenko. *Horn Constraints with Quantifiers and Cardinalities*

15:00 – 15:30 **Coffee break**

15:30 – 17:30 **Contributed talks**

- Andrianarivelo Nirina and Pierre Rety. *Over-Approximating Terms Reachable by Context-Sensitive Rewriting*
- Alexander Malkis. *Multithreaded-Cartesian Abstract Interpretation of Multithreaded Recursive Programs is Polynomial*
- Masaya Shimakawa, Shigeki Hagihara and Naoki Yonezaki. *Reducing Bounded Realizability Analysis to Reachability Checking*
- Igor Potapov. *Insertion-Deletion Systems over Relational Words* (informal presentation)

Tuesday, September 22

9:30 – 10:30 **Invited talk**

- Christel Baier. *Reasoning About Cost-Utility Constraints in Probabilistic Models*

10:30 – 11:00 **Coffee break**

11:00 – 12:30 **Contributed talks**

- Beatrice Berard, Serge Haddad, Claudine Picaronny, Mohab Safey El Din and Mathieu Sassolas. *Polynomial Interrupt Timed Automata*
- Étienne André, Didier Lime and Olivier H. Roux. *Almost-Complete Synthesis for Bounded Parametric Timed Automata*
- Fribourg Laurent, Eric Goubault, Sameh Mohamed, Marian Mrozek and Sylvie Putot. *A Topological Method for finding Invariants of Continuous Systems*

12:30 – 14:00 **Lunch**

14:00 – 15:00 **Invited talk**

- James Worrell. *Reachability Problems for Continuous Linear Dynamical Systems*

15:00 – 15:30 **Coffee break**

15:30 – 17:30 **Contributed talks**

- Petr Jancar. *On Reachability Related Games on Vector Addition Systems with States*
- Paul Hunter. *Reachability in Succinct One-Counter Games*
- Antonia Lechner. *Synthesis Problems for One-Counter Automata*
- Piotr Hofman. *Tightening the Complexity of Equivalence Problems for Commutative Grammars* (informal presentation)

19:00 **Workshop Dinner**

Wednesday, September 23

9:30 – 10:30 **Invited talk**

- Peter Bro Miltersen. *Recent Results on Concurrent Reachability Games*

10:30 – 11:00 **Contributed talk**

- Akihiro Yamamura. *Rearranging Two Dimensional Arrays by Prefix Reversals*

11:00 – 11:30 **Coffee break**

11:30 – 12:30 **Invited talk**

- Alessandro D’Innocenzo. *Modeling and Co-design of Control Tasks Over Wireless Networking Protocols: State of the Art and Challenges*

12:30 – 13:00 **Contributed talk**

- Nathanaël Fijalkow and Michał Skrzypczak. *Irregular Behaviours for Probabilistic Automata*

13:00 – 14:30 **Lunch**