

ICALP 2015 Track B Program

Monday 6 July 2015

Session 1 15:00-16:15 (ROOM4: Hiei)

Chair: Eric Koskinen

15:00 Ahmed Bouajjani, Michael Emmi, Constantin Enea and Jad Hamza
On Reducing Linearizability to State Reachability

15:25 Radha Jagadeesan and James Riely
From Sequential Specifications to Eventual Consistency

15:50 Ori Lahav and Viktor Vafeiadis
Owicki-Gries Reasoning for Weak Memory Models

Session 2 16:45-18:00 (ROOM3: Rose Room)

Track B and Track C Best Papers

Chair: Naoki Kobayashi

16:45 Yiannis Giannakopoulos and Elias Koutsoupias
(Track C) *Selling Two Goods Optimally*

17:10 Jarkko Kari and Michal Szabados
An Algebraic Geometric Approach to Nivat's Conjecture

17:35 Georg Zetsche
An Approach to Computing Downward Closures

Tuesday 7 July 2015

Session 3 10:25-12:30 (ROOM3: Rose Room)

Chair: Albert Atserias

- 10:25 Samir Datta, Raghav Kulkarni, Anish Mukherjee, Thomas Schwentick and Thomas Zeume
Reachability is in DynFO
- 10:50 James Aisenberg, Maria Luisa Bonet, Sam Buss, Adrian Craciun and Gabriel Istrate
Short Proofs of the Kneser-Lovász Coloring Principle
- 11:15 Thomas Colcombet and A V Sreejith
Limited Set Quantifiers over Countable Linear Orderings
- 11:40 Olivier Finkel
Incompleteness Theorems, Large Cardinals, and Automata over Infinite Words
- 12:05 Henryk Michalewski and Matteo Mio
Baire Category Quantifier in Monadic Second Order Logic

Session 4 15:00-17:05 (ROOM4: Hiei)

Chair: Andrzej Murawski

- 15:00 Marcin Jurdziński, Ranko Lazic and Sylvain Schmitz
Fixed-Dimensional Energy Games are in Pseudo-Polynomial Time
- 15:25 Nathanaël Fijalkow, Florian Horn, Denis Kuperberg and Michał Skrzypczak
Trading Bounds for Memory in Games with Counters
- 15:50 Felix Klein and Martin Zimmermann
How Much Lookahead Is Needed to Win Infinite Games?
- 16:15 Sven Schewe, Ashutosh Trivedi and Thomas Methrayil Varghese
Symmetric Strategy Improvement
- 16:40 Denis Kuperberg and Michał Skrzypczak
On Determinisation of Good-for-Games Automata

Wednesday 8 July 2015

Session 5 10:25-12:30 (ROOM4: Hiei)

Chair: Prakash Panangaden

- 10:25 Kousha Etessami, Alistair Stewart and Mihalis Yannakakis
Greatest Fixed Points of Probabilistic Min/Max Polynomial Equations, and Reachability for Branching
- 10:50 Christoph Haase and Stefan Kiefer
The Odds of Staying on Budget
- 11:15 Michele Boreale
Analysis of Probabilistic Systems via Generating Functions and Padé Approximation
- 11:40 Nikola Benes, Peter Bezdek, Kim Guldstrand Larsen and Jiri Srba
Language Emptiness of Continuous-Time Parametric Timed Automata
- 12:05 Benjamin Aminof, Sasha Rubin, Florian Zuleger and Francesco Spegni
Liveness of Parameterized Timed Networks

Thursday 9 July 2015

Session 6 10:25-12:30 (ROOM4: Hiei)

Chair: Shin-ya Katsumata

- 10:25 Samson Abramsky, Radha Jagadeesan and Matthijs Vákár
Games for Dependent Types
- 10:50 Damiano Mazza and Kazushige Terui
Parsimonious Types and Non-uniform Computation
- 11:15 Dexter Kozen, Konstantinos Mamouras, Daniela Petrisan and Alexandra Silva
Nominal Kleene Coalgebra
- 11:40 Sam Staton and Sander Uijlen
Effect Algebras, Presheaves, Non-locality and Contextuality
- 12:05 Jérémy Dubut, Eric Goubault and Jean Goubault-Larrecq
Natural Homology

Session 7 15:00-17:05 (ROOM4: Hiei)

Chair: Dale Miller

- 15:00 Jerome Leroux, Grégoire Sutre and Patrick Totzke
On the Coverability Problem for Pushdown Vector Addition Systems in One Dimension
- 15:25 Krishnendu Chatterjee, Thomas Henzinger, Rasmus Ibsen-Jensen and Jan Otop
Edit Distance for Pushdown Automata
- 15:50 Laura Ciobanu, Volker Diekert and Murray Elder
Solution Sets for Equations over Free Groups are EDTOL Languages
- 16:15 Joseph Swernofsky and Michael Wehar
On the Complexity of Intersecting Regular, Context-free, and Tree Languages
- 16:40 Krishnendu Chatterjee, Laurent Doyen and Moshe Vardi
The Complexity of Synthesis from Probabilistic Components

Friday 10 July 2015

Session 8 10:25-12:05 (ROOM4: Hiei)

Chair: Ugo Dal Lago

- 10:25 Emmanuel Filiot, Sebastian Maneth, Pierre-Alain Reynier and Jean-Marc Talbot
Decision Problems of Tree Transducers with Origin
- 10:50 Antoine Amarilli, Pierre Bourhis and Pierre Senellart
Provenance Circuits for Trees and Treelike Instances
- 11:15 Mikołaj Bojańczyk, Filip Murlak and Adam Witkowski
Containment of Monadic Datalog Programs via Bounded Clique-Width
- 11:40 Markus Lohrey, Sebastian Maneth and Fabian Peternek
Compressed Tree Canonization