

DAGSTUHL SEMINAR 10252
Game Semantics and Program Verification
Lecture Hall *Saarbrücken*

Monday 21st June

- 09:00 – 09:15 *Welcome*
09:15 – 10:15 Dan Ghica: *Game semantics for program verification*
COFFEE BREAK/DISCUSSIONS
10:45 – 11:45 Andrzej Murawski: *Game semantics and automata*
LUNCH
14:15 – 15:15 Naoki Kobayashi: *Model-checking higher-order programs*
COFFEE BREAK/DISCUSSIONS
16:00 – 17:00 Martin Hofmann: *Purity of second-order functionals*

Tuesday 22nd June

- 09:00 – 10:00 Peter Habermehl: *Regular model checking*
10:00 – 10:30 Jérôme Leroux: *VAS reachability by Presburger inductive invariants*
COFFEE BREAK/DISCUSSIONS
11:00 – 11:45 Grégoire Sutre : *Reachability analysis for pushdown concurrent systems*
LUNCH
14:00 – 14:45 Helmut Seidl: *Strategy iteration: abstract interpretation meets game theory*
15:00 – 15:30 Nikos Tzevelekos: *Functional reachability*
COFFEE BREAK/DISCUSSIONS
16:00 – 16:45 Paul Levy: *Operational game semantics*

Wednesday 23rd June

- 09:00 – 10:00 Markus Müller-Olm: *Optimal analysis of threads and procedures*
COFFEE BREAK/DISCUSSIONS
10:15 – 11:45 Olivier Laurent: *Game semantics for logic*
Paul-André Melliès: : *Asynchronous games*
12:00 **Group Photo Session** (front of the chapel)
LUNCH

EXCURSION

Thursday 24th June

- 09:00 – 10:00** Damian Niwiński: *A gentle introduction to panic automata*
Noam Zeilberger: *Polarity and double-negation translation*
COFFEE BREAK/DISCUSSIONS
- 10:15 – 11:45** Julian Gutierrez: *Model-checking partial-order models of concurrency*
Lijun Zhang: *Concurrency and composition in a stochastic world*
LUNCH
- 14:00 – 15:30** Pierre Clairambault: *Fixed points in games*
James Laird: *Genericity and polymorphism*
COFFEE BREAK/DISCUSSIONS
- 16:00 – 16:45** Ugo Dal Lago: *Functional programming in sublinear space*

Friday 25th June

- 09:15 – 10:45** Alexis Goyet: *Lambda-bar calculus*
Etienne Lozes: *Model-checking the contracts of heap-hop*
COFFEE BREAK/DISCUSSIONS
LUNCH