

MOVEP 2012
December 3 – 7, 2012
CIRM, Marseille, France

Program

The program consists of six invited tutorials, five invited technical talks, and 21 short presentations by students in four student sessions.

Sunday, December 2

17:00 – 23:00 Registration at CIRM
19:00 – 22:00 Cold buffet

Monday, December 3

08:50 – 09:00 Opening
09:00 – 12:00 **Tutorial by Moshe Y. Vardi**
Logic and Verification
(Coffee Break around 10:30)

12:00 – 14:00 Lunch Break

14:00 – 15:30 **Technical Talk by Martin Leucker**
Runtime Verification

15:30 – 16:00 Coffee Break

16:00 – 17:30 **Technical Talk by Gilles Barthe**
Computer-Aided Cryptographic Proofs and Designs

17:30 – 17:45 Break

17:45 – 18:45 **Student Session**

- Durica Nikolic: *Constraint-based Static Analyses for Java Bytecode Programs*
- Benedikt Nordhoff: *Tree-Regular Analysis of Parallel Programs with Dynamic Thread Creation and Locks*
- Artem Khyzha: *Compositional reasoning about concurrent libraries on the axiomatic TSO memory model*
- Jose A. Lopes: *Hybrid type systems*

19:00 – 19:30 **Welcome drink at the CIRM**

19:30 – Dinner

Tuesday, December 4

- 09:00 – 12:00 **Tutorial by Marta Kwiatkowska**
Probabilistic Systems
(Coffee Break around 10:30)
- 12:00 – 14:00 Lunch Break
- 14:00 – 15:30 Free time
- 15:30 – 16:00 Coffee Break
- 16:00 – 17:30 **Technical Talk by Antoine Miné**
Static analysis by abstract Interpretation
- 17:30 – 17:45 Break
- 17:45 – 19:00 **Student Session**
- Amit Kumar Dhar: *Model Checking Flat Counter Systems*
 - Ahmet Kara: *Model Checking Concurrent Systems with Unboundedly Many Processes Using Data Logics*
 - Aiswarya Cyriac: *Model Checking Dynamic Distributed Systems*
 - Mathieu Caralp: *Visibly Pushdown Automata with Multiplicities: Finiteness and K-Boundedness*
 - Giuseppe Perelli: *Recent Results and Future Directions in Strategy Logic*
- 19:30 – Dinner
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Wednesday, December 5

- 09:00 – 12:00 **Tutorial by Javier Esparza**
Unfoldings: A Partial Order approach to Model Checking
(Coffee Break around 10:30)
- 12:00 – 14:00 Lunch Break
- 14:00 – 17:00 **Tutorial by Kim G. Larsen**
Timed automata and their quantitative extensions
(Coffee Break around 15:30)
- 17:00 – 17:15 Break
- 17:15 – 19:00 **Student Session**
- Srinivas Pinisetty: *Runtime Enforcement of Timed Properties*
 - Sylvain Cotard: *Runtime Verification for Real-Time Automotive Embedded Software*
 - Aleksandra Jovanovic: *Implementation of Real-Time Systems: Theory and Practice*
 - Benjamin Monmege: *A Probabilistic Kleene Theorem*
 - Paulin Fournier: *Parameterized verification of networks with many identical probabilistic processes*
 - Shashank Pathak: *Formal Verification of Agents Learning by Reinforcement*
 - Laure Millet: *Formal Verification of Mobile Robot Protocols*
- 19:30 – Dinner
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Thursday, December 6

- 09:00 – 12:00 **Tutorial by Hugo Gimbert**
Games for Verification and Synthesis
(Coffee Break around 10:30)
- 12:00 – 14:00 Lunch Break
- 14:00 – 15:30 Free time
- 15:30 – 16:00 Coffee Break
- 16:00 – 17:30 **Technical Talk by Ahmed Bouajjani**
Verification of concurrent systems
- 17:30 – 17:45 Break
- 17:45 – 19:00 **Student Session**
- Florent Avellaneda: *Checking Two Structural Properties of Vector Addition Systems with States*
 - César Rodríguez: *Construction and Verification of Unfoldings for Petri Nets with Read Arcs*
 - Jan-Thierry Wegener: *On Minimality and Equivalence of Petri Nets*
 - Stanislav Bohm: *Kaira: HPC and Petri nets*
 - Maxime Folschette: *Inferring Biological Regulatory Networks from Process Hitting models*
- 19:30 – **Special dinner** (bouillabaisse)
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Friday, December 7

- 09:00 – 12:00 **Tutorial by Alessandro Cimatti and Thomas Noll**
Analysis of Extended AADL Models
(Coffee Break around 10:30)
- 12:00 – 14:00 Lunch Break
- 14:00 – 15:30 **Technical Talk by Ruzica Piskac**
Software Synthesis
- 15:30 – 16:00 Coffee Break
- 16:00 End of MOVEP 2012
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Schedule of MOVEP 2012

	Monday December 3	Tuesday December 4	Wednesday December 5	Thursday December 6	Friday December 7
8:50	Opening				
9:00–10:30	Logic and Verification Moshe Y. Vardi	Probabilistic Systems Marta Kwiatkowska	Unfoldings: A Partial Order approach to Model Checking Javier Esparza	Games for Verification and Synthesis Hugo Gimbert	Analysis of Extended AADL Models Alessandro Cimatti and Thomas Noll
10:30–11:00	Coffee break	Coffee break	Coffee break	Coffee break	Coffee break
11:00–12:00	Logic and Verification Moshe Y. Vardi	Probabilistic Systems Marta Kwiatkowska	Unfoldings: A Partial Order approach to Model Checking Javier Esparza	Games for Verification and Synthesis Hugo Gimbert	Analysis of Extended AADL Models Alessandro Cimatti and Thomas Noll
12:00–14:00	Lunch break	Lunch break	Lunch break	Lunch break	Lunch break
14:00–15:30	Runtime Verification Martin Leucker	Free time	Timed automata and their quantitative extensions Kim G. Larsen	Free time	Software Synthesis Ruzica Piskac
15:30–16:00	Coffee break		Coffee break		Coffee break
16:00–17:00	Computer-Aided Cryptographic Proofs and Designs Gilles Barthe	Static analysis by abstract Interpretation Antoine Miné	Timed automata and their quantitative extensions Kim G. Larsen	Verification of concurrent systems Ahmed Bouajjani	End of MOVEP 2012
17:00–17:30			short break and student session	short break and student session	
17:30–19:00	short break and student session	short break and student session		short break and student session	