

Programme of QAPL08 at ETAPS 2008

(Sixth Workshop on Quantitative Aspects of Programming Languages)

Saturday, March 29

09:30 - 10:30 SESSION 1

INVITED TALK

Timed Controller Synthesis

Jean-Francois Raskin, Universite Libre de Bruxelles, Belgium

10:30 - 11:00 Coffee

11:00 - 12:30 SESSION 2

Probabilistic Abstractions

Game-Based Probabilistic Predicate Abstraction in PRISM

Mark Kattenbelt, Marta Kwiatkowska, Gethin Norman and David Parker

Relational Analysis and Precision via Probabilistic Abstract Interpretation

Alessandra Di Pierro, Pascal Sotin and Herbert Wiklicky

Probabilistic Abstract Interpretation of Imperative Programs using Truncated Normal Distributions

Michael Smith

12:30 - 14:30 Lunch

14:30 - 16:00 SESSION 3

Model Checking

Model checking Quantitative Linear Time Logic

Axel Legay, Marielle Stoelinga and Marco Faella

Probabilistic Logic over Paths

Evan Tzanis and Robin Hirsch.

Probabilistic model checking in neural cryptography. Preliminary Report

Alexei Lisitsa

16:00 - 16:30 Coffee

16:30 - 17:00 SESSION 4

Software Verification I

Towards a metrics for Open Source Software Quality

Siraj Shaikh and Antonio Cerone

Sunday, March 30

09:30 - 10:30 SESSION 1

Program Analysis

Platform Independent Timing of Java Virtual Machine Bytecode Instructions

Jonathan Lambert and James Power

Measuring Progress of Java PathFinder Model-Checking Randomized Sequential Code

Xin Zhang and Franck van Breugel

10:30 - 11:00 Coffee

11:00 - 12:30 SESSION 2

Semantics of Probabilistic Systems

A Behavioural Pseudometric based on lambda-Bisimilarity

Jinjin Zhang and Zhaohui Zhu

Branching bisimulation congruence for probabilistic systems

Nikola Trcka and Sonja Georgievska

Stochastic Satisfiability Modulo Theory: A Novel Technique for the Analysis of Probabilistic Hybrid Systems

Martin Fränzle, Holger Hermanns and Tino Teige

12:30 - 14:00 Lunch

14:00 - 15:00 SESSION 3

INVITED TALK

Formal Modelling and Analysis of Quantum Protocols

Simon Gay, University of Glasgow, UK

15:00 - 16:00 SESSION 4

Software Verification II

Oracle-Based Poly-Controlled Partial Evaluation

Claudio Ochoa and German Puebla

Verification of Resource Requirements of Distributed Reasoning Agents

Natasha Alechina, Brian Logan, Hoang Nga Nguyen and Abdur Rakib

16:00 - 16:30 Coffee

16:30 - 17:30 SESSION 5

Stochastic Process Calculi

On the Approximation of Stochastic Concurrent Constraint Programming by Master Equation

Luca Bortolussi

Modelling FGFR intracellular fate with BioAmbients

Steffen van Bakel, Ikra Kahn, John Heath and Maria Grazia Vigliotti.