

28th Nordic Workshop on Programming Theory (NWPT'16)

Monday, October 31st

8:20–8:50: Registration of the workshop participants.

8:50–9:00: Workshop opening and welcome from the organizers.

09:00–10:30 (Room: Storstuen, chair: Jiri Srba)

- **Invited talk:** *Finding Bugs in Linux Code with Type-And-Effect Abstraction* by Andrzej Wasowski.
- *On Formalizing Information-Flow Control Libraries* by Marco Vassena and Alejandro Russo.

10:30–11:00: coffee break

11:00–12:30 (Room: Storstuen, chair: Alan Mycroft)

- *Finite tree automata determinisation and its application in program analysis and verification* by John P. Gallagher, Mai Ajspur and Bishoksan Kafle.
- *Demand-Driven Interprocedural Analysis for Map-Based Abstract Domains* by Kalmer Apinis, Varmo Vene and Vesal Vojdani.
- *An operational semantics for Javascript DOM* by Rasmus Thomas Tjalk-Boeggild and Christian W. Probst.

12:30–14:00: lunch

14:00–15:30 (Room: Storstuen, chair: Kim G. Larsen)

- **Invited talk:** *Manifest Domains: Analysis and Description* by Dines Bjørner.
- *Reductions for transition systems at work: the bisimulation hierarchy of state-to-function transition systems* by Marino Miculan and Marco Peressotti.

15:30–16:00: coffee break

16:00–17:30 (Room: Storstuen, chair: Jan Friso Groote)

- *Non-interleaving operational semantics for late and early Pi-calculus* by Hakon Normann.
- *Types for CAS: Relaxed Linearity with Ownership Transfer* by Elias Castegren and Tobias Wrigstad.
- *A Calculus of Virtually Timed Ambients* by Einar Broch Johnsen, Martin Steffen and Johanna Beate Stumpf.

19:00: Welcome dinner

Tuesday, November 1st

09:00–10:30 (Room: Storstuen, chair: Jiri Srba)

- **Invited talk:** *Using the Modal Mu-Calculus for Non Functional Properties* by Jan Friso Groote.
- *On (de-)composing causality* by Georgiana Caltais, Stefan Leue and Mohammadreza Mousavi.

10:30–11:00: coffee break

11:00–12:30 Parallel Session A (Room Storstuen, chair: Giorgio Bacci)

- *Testing Software Product Lines using Differential Symbolic Execution* by Sebastian Kunze and Mohammadreza Mousavi.
- *Delta-Oriented FSM-Based Testing* by Mahsa Varshosaz and Mohammadreza Mousavi.
- *wNetKAT: Programming and Verifying Weighted Software-Defined Networks* by Bingtian Xue, Stefan Schmid and Kim Larsen.

11:00–12:30 Parallel Session B (Room Salon, chair: John Gallagher)

- *A Secrecy-Preserving Language for Programming of Object-Oriented and Distributed Systems* by Toktam Ramezanifarkhani and Olaf Owe.
- *From trash to treasure: timing-sensitive garbage collection* by Mathias Vorreiter Pedersen and Aslan Askarov.
- *What is your actual annotation overhead?* by Duncan Cameron, Gudmund Grov and Leon McGregor.

12:30–14:00: lunch

14:00–15:30 Parallel Session A (Room Storstuen, chair: Mohammad Mousavi)

- *Minimizing Markov Chains Beyond Bisimilarity* by Giovanni Bacci, Giorgio Bacci, Kim Guldstrand Larsen and Radu Mardare.
- *Approximating Probabilities in Static Analysis* by Maja Kirkeby.
- *Pomset Languages of Higher-Dimensional Automata* by Uli Fahrenberg.

14:00–15:30 Parallel Session B (Room Salon, chair: Olaf Owe)

- *Enforcement and Specification of Evolving Privacy Policies for Social Networks* by Raul Pardo.
- *Towards Certified Compilation of Financial Contracts* by Danil Annenkov and Martin Elsmann.
- *Don't let data Go astray* by Eric Bodden, Michael Eichberg, Ka I Pun, Martin Steffen, Volker Stolz and Anna-Katharina Wickert.

15:30–16:00: coffee break

16:00–17:30 (Room Storstuen, chair: Einar Broch Johnsen)

- *Multilevel Behavioural Metamodelling* by Fernando Macias, Adrian Rutle and Volker Stolz.
- *Integration of Runtime Verification into Metamodeling* by Fernando Macias, Torben Scheffel, Malte Schmitz, Rui Wang, Martin Leucker, Adrian Rutle and Volker Stolz.
- *Describing Behaviour Models through Reusable, Multilevel, Coupled Model Transformations* by Adrian Rutle, Fernando Macias, Francisco Duran, Roberto Rodriguez-Echeverria and Uwe Wolter.

19:00: Workshop dinner

Wednesday, November 2nd

09:00–10:30 (Room Storstuen, chair: Kim G. Larsen)

- **Invited talk:** *Effects and Coeffects* by Alan Mycroft.
- *A Modular Reasoning System Using Uninterpreted Predicates for Code Reuse* by Crystal Chang Din, Einar Broch Johnsen, Olaf Owe and Ingrid Chieh Yu.

10:30–11:00: coffee break

11:00–12:30 (Room Storstuen, chair: Uli Fahrenberg)

- *An Operational Framework for Multilevel Cache Coherent Multicore Architectures* by Shiji Bijo, Einar Broch Johnsen, Ka I Pun and Silvia Lizeth Tapia Tarifa.
- *An Operational Semantics for Multicasting Systems with Monotonic Values* by Seyed Hossein Haeri and Peter Van Roy.
- *Thread Summaries for Lock-Free Data Structures* by Sebastian Wolff.

12:30–14:00: lunch

14:00: End of the workshop and departure.