

## OPCT'19 - Provisional programme

Monday -- Start 9:00, coffee break 10:30-11:00, lunch 12:30-13:50, coffee break 15:30-16:00, end 17:15

Tuesday -- Start 9:15, coffee break 10:30-11:00, lunch 12:30-13:50, coffee break 15:30-16:00, end 17:15

Talk duration: 25min (20 min talk, 5 min questions)

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Monday, January 14, 2019

*Opening (15min)*

### SESSION TYPES

*Chair: Ilaria Castellani*

Luís Caires TBA

Adrian Francalanza A Foundation for Runtime Enforcement

Hans Hüttel Processes as names?

### CAUSALITY, REVERSIBILITY

*Chair: Thomas Hildebrandt?*

Georgiana Caltais Causal Reasoning for Safety

Jean Krivine A Calculus of Branching Processes

Irek Ulidowski An axiomatic approach to reversible computation

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### SESSION TYPES, GRAPH-REWRITING

*Chair: António Ravara*

Kirstin Peters Taming Concurrency for Verification using Multiparty Session Types

Giovanni Bernardi From testing preorders to flaky tests

Cinzia Di Giusto Multiparty reactive sessions

Malte Lochau Independence, Concurrency and Abstraction in Graph-Rewriting Processes

### CONCURRENT PROGRAMMING, MEMORY MODELS

*Chair: Gustavo Petri?*

Kirsten Winter Linearizability in the context of weak memory models

Carla Ferreira IPA: Invariant-preserving Applications for Weakly Consistent Replicated Databases

Emanuele D'Ousualdo Compositional Reasoning for Termination of Fine-grained Concurrent Programs

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Tuesday, January 15, 2019

Tuesday -- Start 9:15, coffee break 10:30-11:00, lunch 12:30-13:50, coffee break 15:30-16:00, end 17:15

[EQUATIONAL CHARACTERISATIONS, TRANSACTIONS](#)

*Chair: Mohammad Mousavi*

Bas Luttik Revised semantics for sequential composition in the presence of successful termination (tentative)

Marco Bernardo ULTraS at Work: Compositionality and Equational Characterization of Behavioral Metaequivalences

Andrea Cerone A uniform framework of transactional consistency models for protocol verification and program analysis

[CYBERPHYSICAL SYSTEMS, HYBRID SYSTEMS](#)

*Chair: Philippa Gardner*

Erika Abraham Hybrid systems reachability analysis

Rocco De Nicola: TBA

Michele Loreti Designing Resilient Large Scaled CPS: Models, Languages and Tools

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[ALGEBRA, COALGEBRA, MODEL CHECKING](#)

*Chair: Barbara König*

Joost-Pieter Katoen Bayes meets Dijkstra: Verifying Bayes Networks by Program Verification.

Paolo Baldan Model checking true concurrency properties

Helle Hvid Hansen A (Co)algebraic Approach to Hennessy-Milner Theorems for Weakly Expressive Logics

Simone Tini Weak Bisimulation Metrics in Models with Nondeterminism and Continuous States Space: A Logical Characterization

[ALGEBRA, COALGEBRA](#)

*Chair: Alexandra Silva*

Juriaan Rot Coalgebra Learning via Duality

Valentina Castiglioni A metric semantics for coordination languages

Renato Neves Hybrid system iteration

*Closing (5 min)*

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