

Program RC2024

Thursday, 4th July		Friday, 5th July	
9:45	Opening		
10:00-11:00	Invited lecture Amr Sabry: <i>Compositional Reversible Computation</i>	10:00-11:00	Tutorial Ivan Lanese: <i>Causal Debugging for Concurrent Systems</i>
11:00-11:30	Coffee	11:00-11:30	Coffee
11:30-13:00	Synthesis, Verification and Analysis of Reversible and Quantum Systems Matthew Amy, Andrew N. Glauddell, Shaun Kelso, William Maxwell, Samuel Mendelson and Neil J. Ross: <i>Exact synthesis of multiqubit Clifford-cyclotomic circuits</i> Shunya Oguchi and Shoji Yuen: <i>Concurrent RSSA for CRIL: Flow analysis for a concurrent reversible programming language</i> Liam Hurwitz, Kamalika Datta, Abhoy Kole and Rolf Drechsler: <i>Is Simulation the Only Alternative for Effective Verification of Dynamic Quantum Circuits?</i>	11:30-13:00	DCore project session Giovanni Fabbretti, Ivan Lanese and Jean-Bernard Stefani: <i>Reversibility with holes</i> Pietro Lami, Ivan Lanese and Jean-Bernard Stefani: <i>A Small-Step Semantics for Janus</i> Federico Dal Pio Luogo, Claudio Antares Mezzina and G. Michele Pinna: <i>Model Checking Reversible System forwardly</i>
13:00-14:00	Lunch	13:00-14:00	Lunch
14:00-15:30	Reversible and Quantum Programming Languages Joachim Kristensen, Robin Kaarsgaard and Michael Kirkedal Thomsen: <i>Jeopardy: An Invertible Functional Programming Language</i> Lukas Gail and Uwe Meyer: <i>Connecting Reversible and Classical Computing through Hybrid SSA</i> Scott Wesley: <i>LinguaQuanta: Towards a Quantum Transpiler Between OpenQASM and Quipper</i>	14:00-15:00	Models of Reversible Computation Pablo Arrighi, Gilles Dowek and Amélia Durbec: <i>A toy model provably featuring an arrow of time without past hypothesis</i> Matteo Palazzo and Luca Roversi: <i>Algorithmically expressive, always-terminating model for reversible computation</i>
15:30-16:00	Coffee	15:00-15:15	Coffee
16:00-17:00	Collaboration session	15:15-16:15	Experiments in Reversible Programming Therese Lyngby, Rasmus Ross Nylandsted, Robert Glück and Tetsuo Yokoyama: <i>Towards Clean Reversible Lossless Compression. A Reversible Programming Experiment with Zip</i> Lars-Bo Husted Vadgaard, Maja Kirkeby, Michael Kirkedal Thomsen and Ken Friis Larsen: <i>Exploring an Energy-Efficiency in Reversible Programming</i>
17:00	Social Event	16:15	Closing
20:00	Conference Dinner		