Publications

Asynchronous Modal FRP

Calculating Compilers for Concurrency

Modal FRP for all: Functional reactive programming without space leaks in Haskell

Monadic Compiler Calculation (Functional Pearl)

Diamonds are not forever: Liveness in reactive programming with guarded recursion

Calculating Correct Compilers II: Return of the Register Machines

Simply RaTT: A Fitch-style Modal Calculus for Reactive Programming

Convergence in infinitary term graph rewriting systems is simple

Strict Ideal Completions of the Lambda Calculus

What makes guarded types tick?

Compiling a 50-year journey

Böhm Reduction in Infinitary Term Graph Rewriting Systems

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The Clocks Are Ticking: No More Delays! Reduction Semantics for Type Theory with Guarded Recursion

Generalising tree traversals and tree transformations to DAGs: Exploiting sharing without the pain

Cutting Out Continuations

Calculating correct compilers
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Certified Symbolic Management of Financial Multi-party Contracts

Type Families with Class, Type Classes with Family

Calculating Certified Compilers for Non-deterministic Languages

Generalising Tree Traversals to DAGs: Exploiting Sharing without the Pain

Domain-Specific Languages for Enterprise Systems

Towards Certified Management of Financial Contracts

Composing and Decomposing Data Types: A Closed Type Families Implementation of Data Types à La Carte

Pick'n'Fix: Capturing Control Flow in Modular Compilers

Partial Order Infinitary Term Rewriting
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Proving Correctness of Compilers Using Structured Graphs
Programming macro tree transducers

Convergence in Infinitary Term Graph Rewriting Systems is Simple (Extended Abstract)

Modes of Convergence for Term Graph Rewriting
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Modular Tree Automata

Infinitary Term Graph Rewriting is Simple, Sound and Complete

Parametric Compositional Data Types

A Functional Language for Specifying Business Reports

Evaluation à la Carte: Non-Strict Evaluation via Compositional Data Types

Compositional data types

Modes of Convergence for Term Graph Rewriting

Compositional Data Types - A Report from the Field

Abstract Models of Transfinite Reductions

Partial Order Infinitary Term Rewriting and Böhm Trees

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