Publications

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

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
Bahr, P., 1 Jun 2012, In: Logical Methods in Computer Science. 8, 2

Modular Tree Automata
Infinitary Term Graph Rewriting is Simple, Sound and Complete

Parametric Compositional Data Types

A Functional Language for Specifying Business Reports

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Compositional data types

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