



10th IEEE International Working
Conference on Source Code
Analysis and Manipulation



Timișoara, Romania

12th September

9.15-9.30 Welcome

9.30-10.30 Keynote

Chair: Massimiliano Di Penta

Learning from 6,000 projects: Mining Models in the Large
Andreas Zeller

10.30-11.00 Coffee break

11.00-12.30 Session I – Measurement

Chair: Jurgen Vinju

Subclass Instantiation Distribution

Amy Wheeler and Dave Binkley

New Conceptual Coupling and Cohesion Metrics for Object-Oriented Systems

Béla Újvári, Rudolf Ferenc, Denys Poshyvanyk and Tibor Gyimothy

Deriving Coupling Metrics from Call Graphs

Simon Allier, Stéphane Vaucher, Houari Sahraoui and Bruno Dufour

12.30-14.00 Lunch

14.00-15.00 Session II – Concepts

Chair: Leon Moonen

Validating the Use of Topic Models for Software Evolution

Stephen Thomas, Bram Adams, Ahmed E. Hassan and Dorothea Blostein

Estimating the Optimal Number of Latent Concepts in Source Code Analysis

Scott Grant and James R. Cordy

15.00-15.15 Coffee break

15.15-16.15 Session III – Clones

Chair: Michael Godfrey

Language-Independent Clone Detection Applied to Plagiarism Detection

Romain Robbes, Romain Brixtel, Mathieu Fontaine, Boris Lesner and Cyril Bazin

Evaluating Code Clone Genealogies at Release level: An Empirical Study

Ripon Saha, Muhammad Asaduzzaman, Chanchal K. Roy and Kevin Schneider

16.15-16.30 Coffee break

16.30-17.30 Session IV – Demos

Chair: Pascal Cuoq

The Fika Parser Generator

Michal Pise

AmbiDexter: Practical Ambiguity Detection

Bas Basten and Tijs van der Storm

19.00-21.00 Banquet

13th September

9.15-10.15 Keynote

Chair: Jim Cordy

Why Source Code Analysis and Manipulation Will Always Be Important
Mark Harman

10.15-10.45 Coffee break

10.45-12.30 Session V – Static Analysis using Graphs **Chair: Sibylle Schupp**

Speeding up context-, object- and field-sensitive SDG generation
Juergen Graf

How Good is Static Analysis at Finding Concurrency Bugs?
Devin Kester, Martin Mwebesa and Jeremy Bradbury

Parallel Reachability and Escape Analyses
Marcus Edvinsson, Jonas Lundberg and Welf Lowe

Effective Static Analysis to Find Concurrency Bugs In Java
Zhi Da Luo, Linda Hillis, Raja Das and Yao Qi

12.30-14.00 Lunch

14.00-15.30 Session VI – Modularity

Chair: Rudolf Ferenc

Encapsulating Software Platform Logic by Aspect-Oriented Programming: A Case Study
in Using Aspects for Language Portability
Lennart C. L. Kats and Eelco Visser

Refactoring Support for Modularity Maintenance in Erlang
Huiqing Li and Simon Thompson

Visualization of C++ Template Metaprograms
Zoltán Borók-Nagy, József Mihalicza, Norbert Pataki, Zoltán Porkoláb and Viktor Májer

15.30-16.00 Coffee break

16.00-17.30 Session VII – Data and Memory

Chair: Mark Harman

Reconstruction of composite types for Decompilation
Katerina Troshina, Yegor Derevenets and Alexander Chernov

Recovering the Memory Behavior of Executable Programs
Alain Ketterlin and Philippe Clauss

MemSafe: Ensuring the Spatial and Temporal Memory Safety of C at Runtime
Matthew Simpson and Rajeev Barua

17.30-17.45 Closing

17.45-18.15 Open SC Meeting