

SCAM Technical Program

1 Overview

8:00 - 9:00	Continental breakfast
9:00 - 9:45	Keynote address
9:45 - 10:00	short break
10:00 - 11:30	Session I: Testing, Metrics, Maintenance
11:30 - 12:00	refreshment break
12:00 - 1:30	Session II: Source Transformation, Source Processing
1:30 - 2:30	lunch
2:30 - 4:00	Session III: Slicing
4:00 - 4:30	refreshment break
4:30 - 6:00	Session IV: Dependence Graphs, Static Analysis
6:00 - 6:30	Wrap up / closing / elections
7:00 - ?:??	SCAM reception (shared with attendess from WSE 2002, WESS 2002 and DBMR 2002)

2 Format

In keeping with the spirit and format of a workshop, SCAM will have a highly discursive nature, with four theme-based discussion tracks and a keynote presentation, aimed at structuring and stimulating discussion.

Authors will have a 15 minute slot to present their work. This is 10 minutes (maximum) for talking with 5 minutes (minimum) for questions. Authors are encouraged not to attempt to present the details of their paper in this time. Rather, respecting the discussion-centered goal of SCAM, authors are encouraged to use a **few** slides to present points, claims, issues and topics for discussion and to use their time allocation to attempt to set the agenda for the ensuing discussions.

Each session has a specifically allocated discussion time at the end of the presentations to allow for this.

3 Allocation of Papers to Sessions

3.1 Keynote Address

Parallel Support for Source Code Analysis and Modification

Ira D. Baxter

3.2 Testing, Metrics, Maintenance

Towards Measurement of Testability of Concurrent Object-Oriented Programs using Fault Insertion: A Preliminary Investigation

Sudipto Ghosh

An Extensible Metrics Extraction Environment for Object-oriented Programming Languages

Terrence Harmer, George Wilkie

Evaluating Clone Detection Tools for Use During Preventative Maintenance

John Bailey, Elizabeth Burd

A Simple Mathematically Based Framework for Rule Extraction Using Wide Spectrum Language

Frederick Ramsey, James Alpigini

3.3 Source Transformation, Source Processing

VADA: A Transformation-based System for Variable Dependence Analysis

Mark Harman, Lin Hu, Chris Fox, Sebastian Danicic, Joachim Wegener

Combining Source Transformation and Operator Overloading Techniques to Compute Derivatives for MATLAB Programs

Christian Bischof, Hans Martin Buecker, Bruno Lang, Arno Rasch, Andre Vehreschild

Mechanized Operational Semantics of WSL

Xingyuan Zhang, Malcolm Munro, Mark Harman, Lin Hu

Handling Preprocessor-conditioned Declarations

Lerina Aversano, Massimiliano di Penta, Ira Baxter

Grammar Programming in TXL

Thomas Dean, James Cordy, Andrew Malton, Kevin Schneider

3.4 Slicing

An Interprocedural Amorphous Slicer for WSL

Mark Harman, Lin Hu, Malcolm Munro, Xingyuan Zhang, Sebastian Danicic, Mohammed Daoudi

Dynamic Slicing Object-Oriented Programs for Debugging

Baowen Xu

Construction of the System Dependence Graph for Web Application Slicing

Filipo Ricca, Paolo Tonella

Predicate-Based Dynamic Slicing of Message Passing Programs

Juergen Rilling, Hon F. Li, Dhrubajyoti Goswami

3.5 Dependence Graphs, Static Analysis

Using Dependence Graphs as a Support to Document Programs

Francoise Balmas

Precise Call Graph Construction in the Presence of Function Pointers

Ana Milanova, Atanas Rountev, Barbara Ryder

Semantics Guided Filtering of Combinatorial Graph Transformations in Declarative Equation Based Languages

Peter Bunus, Peter Fritzson

Visualization of Exception Propagation for Java using Static Analysis

Byeong-Mo Chang, Jang-Wu Jo, Soon Hee Her