



SIGSOFT 2006 / FSE 14

ADVANCE PROGRAM

14th ACM Symposium on Foundations of Software Engineering

Doubletree Hotel at Lloyd Center, Portland Oregon, November 5-11, 2006

<http://www.cs.uoregon.edu/fse14>

Register and make hotel reservations by October 4, 2006

Organizing Committee

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Program Chair: Premkumar Devanbu, UC Davis

Student Programs

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Doctoral Symposium: Daniela Damian, U. Victoria

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Rump Session: Martin Robillard, McGill U. and Vibha Sazawal, Univ. of Maryland

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Sunday, November 5

Inspirations (pre-PhD student event)

Monday, November 6

First Alloy Workshop

Third International Workshop on Software Quality Assurance (SOQUA 2006)

FSE Doctoral Symposium

Tuesday, November 7 — Thursday November 9

FSE main technical program

Friday, November 10 — Saturday, November 11

Fifth International Workshop on Specification and Verification of Component-Based Systems (SAVCBS'06)

Software Engineering and Middleware (SEM 2006)

FSE Main Program: Tuesday, November 7

Keynote: Guido van Rossum

Google, BDFL of the Python Community

1 Empirical Methods and Program Understanding

Using Task Context to Improve Programmer Productivity. Mik Kersten and Gail Murphy, U. British Columbia.

Working Experience versus Refactoring to Design Patterns: A Controlled Experiment. T.H. Ng, City U. Hong Kong, S.C. Cheung, Hong Kong U. Science and Technology, W.K. Chan and Y.T. Yu, City U. Hong Kong.

Questions Programmers Ask During Software Evolution Tasks. Jonathan Sillito, Gail Murphy, and Kris De Volder, U. British Columbia.

2 Mining Failures and Bugs

Memories of Bug Fixes. Sunghun Kim, Kai Pan, and E. James Whitehead, Jr., U. California, Santa Cruz.

Failure Proximity: A Fault Localization-Based Approach. Chao Liu and Jiawei Han, U. Illinois at Urbana-Champaign.

Finding Failure-Inducing Changes in Java Programs using Change Classification. Maximilian Stoerzer, U. Passau, Barbara Ryder, Xiaoxia Ren, Rutgers U., and Frank Tip, IBM T.J. Watson Research Center.

3 Program Analysis

How is Aliasing Used in Systems Software? Brian Hackett and Alex Aiken, Stanford U.

Dynamic Slicing Long Running Programs through Execution Fast Forwarding. Xiangyu Zhang, Sriraman Tallam, and Rajiv Gupta, U. Arizona.

Controlling Factors in Evaluating Path-Sensitive Error Detection Techniques. Matthew Dwyer, Suzette Person, and Sebastian Elbaum, U. Nebraska – Lincoln.

Poster Session Reception

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14th ACM Symposium on Foundations of Software Engineering — Technical Program (cont.)

Wednesday, November 8

Keynote: David Harel

Weizmann Institute of Science, 2006 SIGSOFT Outstanding Research Award Winner

4 Formal Approaches to Programming

Interpolation for Data Structures. Deepak Kapur, U. New Mexico, Rupak Majumdar, UC Los Angeles, and Calogero Zarba, Universitat der Saarlandes.

SYNERGY: A New Algorithm for Property Checking. Bhargav Gulavani, IIT Bombay, Thomas Henzinger, E P F L, Yamini Kannan, Aditya Nori, and Sriram Rajamani, Microsoft Research India.

Bit Level Types for High Level Reasoning. Ranjit Jhala, UC San Diego, and Rupak Majumdar, UC Los Angeles.

5 Empirical Studies

An Empirical Study of Regression Testing Techniques Incorporating Context and Lifecycle Factors and Improved Cost-Benefits Models. Hyunsook Do and Gregg Rothermel, U. Nebraska – Lincoln.

Exceptions and Aspects: The Devil is in the Details. Fernando Castor Filho, S. U. Campinas, Nelio Cacho, Lancaster U., Eduardo Figueiredo, Pontifical Catholic U. Rio de Janeiro, Raquel Maranhão, S. U. Campinas, Alessandro Garcia, Lancaster U. , and Cecilia Mary F. Rubira, S. U. Campinas.

Detecting Increases in Feature Coupling using Regression Tests. Olivier Giroux, NVIDIA Corporation, and Martin P. Robillard, McGill U.

6 Safety and Security

Using Positive Tainting and Syntax-Aware Evaluation to Counter SQL Injection Attacks. William G.J. Halfond, Alessandro Orso, and Panagiotis Manolios, Georgia Institute of Technology.

Local Analysis of Atomicity Sphere for B2B Collaboration. Chunyang Ye, S.C. Cheung, Hong Kong U. Science and Technology, W.K. Chan, City U. of Hong Kong, and Chang Xu, Hong Kong U. Science and Technology.

ACM SIGSOFT Reception

Town Meeting and Rump Session

Thursday, November 9

Keynote: Jim Spohrer

Director of Services Research, and Innovation Champion, IBM Research

7 Requirements Modeling

Scenarios, Goals, and State Machines: A Win-Win Partnership for Model Synthesis. Christophe Damas, Bernard Lambeau, and Axel van Lam-sweerde, U. Catholique de Louvain.

User Guidance for Creating Precise and Accessible Property Specifications. Rachel L. Cobleigh, George S. Avrunin, and Lori A. Clarke, U. Massachusetts Amherst.

From Multi-Modal Scenarios to Code: Compiling LSCs into AspectJ. David Harel and Shahar Maoz, The Weizmann Institute of Science.

8 Testing

Simulation-Based Test Adequacy Criteria for Distributed Systems. Matthew Rutherford, U. Colorado Boulder, Antonio Carzaniga and Alexander Wolf, U. Lugano.

Testing Context-Aware Middleware-Centric Programs: A Data Flow Approach and an RFID-Based Experimentation. Heng Lu, U. Hong Kong, W.K. Chan, City U. of Hong Kong, and T.H. Tse, U. Hong Kong.

Carving Differential Unit Test Cases from System Test Cases. Sebastian Elbaum, Hui Nee Chin, Matthew Dwyer, and Jonathan Dokulil, U. Nebraska – Lincoln.

9 Specification Mining

SMaTIC: Towards Building an Accurate, Robust and Scalable Specification Miner. David Lo and Siau-Cheng Khoo, National U. Singapore.

Lightweight Extraction of Syntactic Specifications. Mana Taghdiri, Robert Seater, and Daniel Jackson, Massachusetts Institute of Technology.

Thanks to Microsoft Research, IBM, and the National Science Foundation for supporting student programs at SIGSOFT 2006.

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SIGSOFT 2006 Program at a Glance

Sun, 5 Nov			Inspirations (pre-Ph.D. students)
Mon, 6 Nov			First Alloy Workshop Third International Workshop on Software Quality Assurance (SOQUA 2006) FSE Doctoral Consortium
Tues, 7 Nov	FSE main technical program Tuesday-Thursday	9-10:30	Keynote: Guido van Rossum
		11-12:30	Paper session 1
		2-3:30	Paper session 2
		4-5:30	Paper session 3
		6-8:00	Poster session reception
Wed, 8 Nov		9:00-10:30	Keynote: David Harel
		11-12:30	Paper session 4
		2-3:30	Paper session 5
		4-5:00	Paper session 6
		5:15-8:00	ACM SIGSOFT reception, town hall meeting, and rump session
Thurs, 9 Nov		9-10:30	Keynote: Jim Spohrer
		11-12:30	Paper session 7
		2-3:30	Paper session 8
		4-5:00	Paper session 9
Fri, 10 Nov			Fifth International Workshop on Verification of Component-Based Systems (SAVCBS'06) Software Engineering and Middleware (SEM 2006)
Sat, 11 Nov			Fifth International Workshop on Verification of Component-Based Systems (SAVCBS'06)