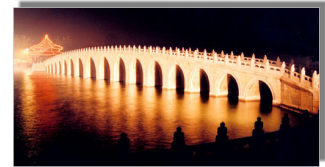




SCAM 2008



September 28, 2008

09:00-09:15

Welcome - General Chairs

Introduction - Program Chairs

09:15-10:30

Keynote

Session Chair: Lu Zhang

90% Perspiration: Engineering Static Analysis Techniques for Industrial Applications

Paul Anderson

10:30-10:45 Coffee

10:45-12:00 Program Analysis I

Session Chair: Thomas Dean

Some Assembly Required - Program Analysis of Embedded System Code
Ansgar Fehnker, Ralf Huuck, Felix Rauch, Sean Seefried

User-Input Dependence Analysis via Graph Reachability
Bernhard Scholz, Chenyi Zhang, Cristina Cifuentes

TBCppA: A Tracer Approach for Automatic Accurate Analysis of C Preprocessor's Behaviors
Katsuhiko Gondow, Hayato Kawashima, Takashi Imaizumi

12:00-13:15 Lunch

13:15-14:30 Empirical Study I

Session Chair: Massimiliano Di Penta

An Empirical Study of Function Overloading in C++
Cheng Wang, Daqing Hou

Is Cloned Code More Stable than Non-Cloned Code?
Jens Krinke

Exploiting the Correspondence between Micro Patterns and Class Names
Jeremy Singer, Chris Kirkham

14:30-14:45 Coffee

14:45-16:00 Defect Detection

Session Chair: Jens Krinke

Automated Detection of Code Vulnerabilities Based on Program Analysis and Model Checking
Lei Wang, Qiang Zhang, PengChao Zhao

Analysis and Transformations for Efficient Query-Based Debugging
Michael Gorbovitski, K. Tuncay Tekle, Tom Rothamel, Scott D. Stoller, Yanhong A. Liu

Determining the Impact of Prior Code Changes
Daniel M. German, Gregorio Robles, Ahmed E. Hassan

16:00-16:15 Break

16:15-17:15 Program Analysis II

Session Chair: Mark Harman

On the Use of Data Flow Analysis in Static Profiling
Cathal Boogerd, Leon Moonen

The Semantics of Abstract Program Slicing
Damiano Zanardini

19:30-22:00 Social Event - Dinner

September 29, 2008

09:15-10:30 Empirical Study II

Session Chair: Cristina Cifuentes

The Evolution and Decay of Statically Detected Source Code Vulnerabilities
Massimiliano Di Penta, Luigi Cerulo, Lerina Aversano

From Indentation Shapes to Code Structure
Abram Hindle, Michael W. Godfrey, Richard C. Holt

Evaluating Key Statements Analysis
David Binkley, Nicolas Gold, Mark Harman, Zheng Li, Kiarash Mahdavi

10:30-10:45 Coffee

10:45-12:00 Code Manipulation

Session Chair: Jim Cordy

Beyond Annotations: A Proposal for Extensible Java (XJ)
Tony Clark, Paul Sammut, James Willans

Modular Decompilation of Low-Level Code by Partial Evaluation
Miguel Gómez-Zamalloa, Elvira Albert, Germán Puebla

Constructing Subtle Faults Using Higher Order Mutation Testing
Yue Jia, Mark Harman

12:00-13:15 Lunch

13:15-14:30 Tool Demonstrations

Session Chair: Keith Gallagher

Rejuvenate Pointcut: A Tool for Pointcut Expression Recovery in Evolving Aspect-Oriented Software
Raffi Khatchadourian, Awais Rashid

Parfait - A Scalable Bug Checker for C Code
Cristina Cifuentes

CoordInspector: A Tool for Extracting Coordination Data from Legacy Code
Nuno F. Rodrigues, Luis S. Barbosa

Precise Analysis of Java Programs using JOANA
Dennis Giffhorn, Christian Hammer

DTS - A Software Defects Testing System
Yang Zhao Hong, Gong Yun Zhan, Xiao Qing, Wang Ya Wen

14:30-14:45 Coffee

14:45-16:00 Reengineering

Session Chair: Paul Anderson

Using Program Transformations to Add Structure to a Legacy Data Model
Mariano Ceccato, Thomas R. Dean, Paolo Tonella

Type Highlighting: A Client-Driven Visual Approach for Class Hierarchies Reengineering
Petru Florin Mihancea

Extraction of XML services from JSP Web Pages
Jason Chu, Thomas R. Dean

16:00-16:15 Break

16:15-17:30 Pointer Analysis

Session Chair: Paolo Tonella

Fast and Precise Points-to Analysis
Jonas Lundberg, Tobias Gutzmann, and Welf Löwe

Aspect-Aware Points-to Analysis
Qiang Sun, Jianjun Zhao

Automatic Generation of Pointer-Cognizant Data-Flow Analysis Implementations
Andrew Stone, Michelle Strout, Shweta Behere

17:30-17:45 Closing

17:45-18:15 Open SC Meeting