

AADEBUG 2005

Call For Participation

Sixth International Symposium on
Automated and Analysis-Driven Debugging
Monterey, California, September 19-21, 2005
<http://www.cs.nmsu.edu/aadebug/>



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University, USA

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Jong-Deok Choi, IBM, USA
Raimondas Lencevicius, Nokia, USA

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Mikhail Auguston, NPS, USA

Program committee

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Over the past decades automated debugging has seen major achievements. However, as debugging is by necessity attached to particular programming paradigms, the results are scattered. The aims of the symposium are to gather common themes and solutions across programming communities, and to cross-fertilize ideas. The program of symposium will contain papers describing original research as well as reports on practical experience. We will also have demonstrations of tools and research prototypes.

Typical topics of the symposium include (but are not limited to):

automated debugging	declarative debugging
type debugging	knowledge-based debugging
algorithmic debugging	assertion-based debugging
trace analysis	software testing
program slicing	monitoring
performance debugging	parallel and distributed debugging
debugging by simulation	debugging using record/replay

for any kind of programming paradigms (sequential, parallel, distributed, grid, real-time, logic programming, functional, object-oriented, imperative, visual languages).

Symposium attendees will receive paper proceedings with accepted papers and demo descriptions published on paper by ACM. Proceedings will also be available electronically in the ACM Digital Library.

Demonstration of tools and research prototypes that implement new ideas in debugging automation will be part of the AADEBUG 2005 technical program. Demos will be given in sessions together with technical paper presentations.

Location

AADEBUG 2005 will take place in Monterey, California, at the Monterey Beach Resort, 2600 Sand Dunes Drive, Monterey, CA 93940 USA.

Monterey is one of the most beautiful areas of the California coast. It features the Monterey Bay Aquarium, Cannery Row, the U.S. Naval Postgraduate School, and proximity to numerous Californian attractions ranging from Silicon Valley to the Carmel Mission to the Hearst Mansion. The Monterey-Salinas Airbus provides 14 trips daily to the San Jose and San Francisco international airports from downtown Monterey. Other shuttles and car rentals are also available to the closest international airport (San Jose, SJC, 125 km), and Monterey Airport offers commercial air service to San Francisco, Los Angeles, and Phoenix. Other nearby airports are San Francisco, and Oakland.

Important Dates

Early registration deadline

August 15, 2005



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Preliminary Program

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September 19

9:00 am - 9:15 am Symposium Opening
9:15 am - 11:00 am Keynote Talk: Bill Pugh
11:00 am - 11:15 am Break
11:15 am - 12:30 pm Session 1
Find A Compiler Bug In 5 Minutes
Christian Lindig

Specifying and Checking Component Usage
Steven P. Reiss

12:30 pm - 2 pm Lunch
2:00 pm - 3:30 pm Session 2
Automated Bug Isolation Via Program Chipping
Chad D. Sterling, Ronald A. Olsson

Experimental Evaluation Of Using Dynamic Slices For Fault Location
Xiangyu Zhang, Haifeng He, Neelam Gupta, Rajiv Gupta

Error Traces in Model-Based Debugging of Hardware Description Languages
Bernhard Peischl, Franz Wotawa

3:30 pm - 4:00 pm Break
4:00 pm - 5:30 pm Session 3
Justification and Debugging Of Answer Set Programs In Asp-Prolog
Omar El-Khatib, Enrico Pontelli, Tran Cao Son

Divide-and-Query and Subterm Dependency Tracking In The Mercury Declarative Debugger
Ian Maclarty, Zoltan Somogyi, Mark Brown

September 20

9:00 am - 9:15 am Opening
9:15 am - 10:30 am Session 4
Jockey: A User-Space Library For Record-Replay Debugging
Yasushi Saito

Demo: Debugging Natural Semantics Specifications
Adrian Pop, Peter Fritzson

Backtracking and Dynamic Patching For Free
Bjorn De Sutter, Bruno De Bus, Michiel Ronsse, Koen De Bosschere

10:30 am - 11 am Break
11:00 am - 12:30 pm Session 5
Convergence Debugging
Borislav Nikolik

Lightweight Bug Localization With AMPLE
Valentin Dallmeier, Christian Lindig, Andreas Zeller

Analyzing & Debugging ILP Data Mining Query Execution
Remko Troncon, Gerda Janssens

12:30 pm - 2 pm Lunch
2:00 pm - 3:00 pm Session 6
An Integrated Debugging Environment For Reprogrammable Hardware Systems
Kevin Camera, Hayden Kwok-Hay So, Bob W. Brodersen

On The Design Of A Pervasive Debugger
Alex Ho, Steven Hand

3:00 pm - 3:30 pm Break
3:30 pm - 5:30 pm Panel
7 pm Conference dinner: Tarp's Roadhouse

September 21

9:00 am - 9:15 am Opening
9:15 am - 10:45 am Session 7
Tdb: A Source-Level Debugger For Dynamically Translated Programs
Naveen Kumar, Bruce Childers, Mary Lou Soffa

Debugging Object-Oriented Programs With Behavior Views
Donglin Liang, Kai Xu

A Tracer Driver for Hybrid Execution Analyses
Ludovic Langevine, Mireille Ducassé

10:45 am - 11 am Break
11:00 am - 12:30 pm Session 8
A Contextual Interpretation Of Undefinedness For Runtime Assertion Checking
Yoonsik Cheon, Gary T. Leavens

Code Coverage Testing Using Hardware Performance Monitoring Support
Alex Shye, Matthew Iyer, Vijay Janapareddi, Dan Connors