



General chair

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Important dates

Paper submission:

April 27, 2012

Notification of
acceptance:

May 11, 2012

Camera-ready due:

May 18, 2012

Date of workshop:

July 16, 2012

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The 10th Workshop on Parallel and Distributed Systems: Testing, Analysis and Debugging

About

The PADTAD 2012 workshop is a one-day event at ISSTA 2012, focusing on techniques and systems that aid in the testing, analysis, and debugging of multi-threaded, parallel and distributed applications and systems. The workshop has a practical and applied emphasis and welcomes industry submissions.

Topics of interest

- Advanced network interface debugging (e.g., Myrinet, VIA)
- Curriculum and education for multi-core design, programming, testing, debugging and analysis
- Data-race and deadlock detection
- Detection of time-dependent bugs in hardware and software
- Domain-specific languages for testing, debugging and analysis
- Fault injection and analysis
- Formal specification and verification of programming libraries and programs
- Functional and structural testing and debugging
- Industrial case studies and experience reports on testing and debugging of concurrent software in practice
- New tools for testing, debugging, and analysis of MPI, OpenMP, and other library based applications, domain-specific concurrent languages, fault tolerant applications and systems, real-time applications and systems, transactional memory programs, embedded system software, etc.
- Performance testing, debugging, and analysis
- Programming techniques and methodologies (that decrease the need for testing or debugging)
- Replay techniques for multi-threaded applications
- Static and dynamic program analysis (including code review)
- Test generation algorithms and tools
- Security testing of concurrent systems and applications in the cloud

Submissions and publication

Technical papers must be prepared in ACM conference format (both strict and alternate style are permitted) and must not exceed 11 pages, including figures, references and appendices. All submissions must be in English. At least one author of each accepted paper should attend the workshop.

Website – <http://faculty.uoit.ca/bradbury/padtad2012/>