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and Co-Located Workshops
MIT’10, PADTAD’10, STOV’10 and WODA’10

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Message from the Chairs

It is our great pleasure to welcome you to Trento for ISSTA 2010, the 19th International Symposium on Software Testing and Analysis. ISSTA is the leading research conference in software testing and analysis and brings together academics, industrial researchers, and practitioners to exchange new ideas, problems, and experience on how to analyze and test software systems. The ISSTA 2010 program includes keynotes, technical, tool, and doctoral symposium papers, tutorials and workshops.

ISSTA 2010 attracted over 100 submissions, which demonstrates the ongoing interest in the field. Each submission was evaluated by at least three members of the Program Committee. The Program Committee met to discuss the submissions and accepted 23 papers that cover a variety of topics, including formal verification, symbolic execution, test input generation, debugging, and concurrency testing and analysis. In addition, the program includes two distinguished keynote speakers: Christian Ferdinand (AbsInt) and Patrice Godefroid (Microsoft Research).

The ISSTA week includes five workshops and two tutorials:

- PADTAD: Workshop on Parallel and Distributed Systems: Testing, Analysis, and Debugging
- SSEAT: Workshop on State-space Exploration for Automated Testing
- STOV/MIIT: Joint Workshop on Software Test Output Validation & Model Inference In Testing
- WODA: Workshop on Dynamic Analysis
- SBT: Tutorial on Search-based Testing, given by Phil McMinn
- JPF: Tutorial on Automated Testing with Java PathFinder, given by Corina Pasareanu and Willem Visser

Bringing ISSTA 2010 into existence involved a great effort from the members of our community, and we would like to extend our most heartfelt thanks to everyone who worked hard to make this possible. We thank the authors and the keynote speakers, who provide the content of our program and are presenting their contributions at the conference. We cannot thank enough the Program Committee members, who reviewed many papers, wrote detailed reviews, traveled at their own expense to the Program Committee meeting, and helped us select this great program for the conference. Special thanks go to Alfonso Fuggetta and Cristiano Mossa, who let us use the great CEFRIEL facilities for the Program Committee meeting and helped facilitating the meeting in any way possible. Alessandro Marchetto of Fondazione Bruno Kessler managed the ISSTA web site and responded to our countless requests with incredible promptness. We gratefully acknowledge our sponsor (ACM SIGSOFT), supporters (Fondazione Bruno Kessler, CEFRIEL, Georgia Tech, and SIGPLAN), and corporate donors (Google, IBT, IBM Research, and Microsoft Research) for their generous contributions.

Finally, we want to thank all of the conference attendees for contributing to making the conference a success. We hope that you will find the ISSTA 2010 program interesting, thought-provoking, and inspiring, and that the conference will give you valuable opportunities to share ideas with researchers and practitioners from our vibrant and growing testing and analysis community.

Paolo Tonella
ISSTA 2010 General Chair
Fondazione Bruno Kessler, Italy

Alessandro Orso
ISSTA 2010 Program Chair
Georgia Institute of Technology, USA
# ISSTA 2010

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