10th International Workshop on Worst-Case Execution Time Analysis

WCET 2010, July 6, 2010, Brussels, Belgium

Edited by
Björn Lisper
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Preface

On July 6, 2010, the 10th International Workshop on Worst-Case Execution Time Analysis (WCET 2010) was held in Brussels, Belgium. The workshop was organised as a satellite event of the 22nd Euromicro Conference on Real-Time Systems (ECRTS’10). The goal of this annual workshop is to bring together people from academia, tool vendors, and tool users in industry who are interested in all aspects of timing analysis for real-time systems. The workshop features a highly interactive format with ample time for in-depth discussions.

Topics of interest include:

- different approaches to WCET computation,
- flow analysis for WCET, loop bounds, feasible paths,
- low-level timing analysis, modeling and analysis of processor features,
- strategies to reduce the complexity of WCET analysis,
- integration of WCET and schedulability analysis,
- evaluation, case studies, benchmarks,
- measurement-based WCET analysis,
- tools for WCET analysis,
- program and processor design for timing predictability,
- integration of WCET analysis in development processes,
- compiler optimizations for worst-case paths, and
- WCET analysis for multi-threaded and multi-core systems.

The papers were presented at the workshop were selected based on peer reviews by program committee members and external reviewers. 13 submissions out of 23 were finally selected for presentation. These proceedings contain the presented papers, and the abstract of the invited talk by Dr. Jean Souyris. For the first time a printed version of the final proceedings was printed in advance, and distributed at the workshop, rather than being edited as post-proceedings after the workshop. This version of the proceedings was printed and published by OCG (ISBN 978-3-85403-268-7). The current online version of the proceedings is a re-publication of the printed version.

I am happy to thank the authors, the Program Committee including the external reviewers, the WCET Workshop Steering Committe, and the ECRTS’10 organizers for assembling the components of a very stimulating workshop. The workshop organizers are also deeply grateful to the ArtistDesign Network of Excellence for financial support.

November 2010

Björn Lisper
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