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Preface

The 11th International Conference on Reliable Software Technologies, Ada-Europe 2006, took place in Porto, Portugal, June 5-9, 2006. It was as usual sponsored by Ada-Europe, the European federation of national Ada societies, in cooperation with ACM SIGAda. It was organized by members of the School of Engineering of the Polytechnic Institute of Porto, in collaboration with several colleagues from different institutions in Europe.

Following the usual style, the conference included a three-day technical program, during which the papers contained in these proceedings were presented, bracketed by two tutorial days where attendants had the opportunity to catch up on a variety of topics related to the field, at both introductory and advanced levels. Continuing the success achieved in the previous year, the technical program also included an industrial track, with contributions illustrating challenges faced and solutions encountered by industrialists from both sides of the Atlantic. Furthermore, the conference was accompanied by an exhibition where vendors presented their products for supporting reliable-software development.

The conference presented four distinguished speakers, who delivered state-of-the-art information on topics of great importance, both for the present and the future of software engineering:

– Correctness by Construction: Putting Engineering into Software  
  by Rod Chapman (Praxis HIS, UK)
– Empirical Software Risk Assessment Using Fault Injection  
  by Henrique Madeira (University of Coimbra, Portugal)
– Model-Driven Technologies in Safe-Aware Software Applications  
  by Miguel Angel de Miguel (Technical University of Madrid, Spain)
– I Have a Dream: ICT Problems We All Face  
  by John L. Hill (Sun Microsystems, USA)

We would like to express our sincere gratitude to these distinguished speakers, well known to the community, for sharing their insights with the conference participants.

A large number of regular papers were submitted, from as many as 23 different countries. The Program Committee worked hard to review them, and the selection process proved to be difficult, since many papers had received excellent reviews. Finally, the Program Committee selected 19 papers for the conference. The industrial track of the conference also received valuable contributions from industrialists, and the Industrial Committee finally selected 9 of them for the conference. The final result was a truly international program with contributions from Australia, Austria, Canada, China, France, Germany, Iran, Italy, Japan, Portugal, Spain, the UK, and the USA, covering a broad range of topics: real-time systems, static analysis, verification, applications, reliability, industrial experience, compilers and distributed systems.
The conference also included an interesting selection of tutorials, featuring international experts who presented introductory and advanced material in the domain of the conference:

- Verification and validation for reliable software systems, William Bail
- The Ada 2005 Standard Container Library, Matthew Heaney
- Developing Web-Aware Applications in Ada with AWS, Jean-Pierre Rosen
- SAE Architecture Analysis and Design Language, Joyce L. Tokar
- Model-Driven Development with the Unified Modeling Language (UML) 2.0™ and Ada, Colin Coates
- Distribution in Ada 95 with PolyORB, A Schizophrenic Middleware, Jérôme Hugues
- Requirements Management for Dependable Systems, William Bail
- Real-Time Java for Ada Programmers, Benjamin M. Bros gol

We would like to express our appreciation to these experts, for the work on preparing and presenting this material in the conference.

Many people contributed to the success of the conference. The Program and Industrial Committees, made up of international experts in the area of reliable software technologies, spent long hours carefully reviewing all the papers, presentations and tutorial proposals submitted to the conference. A subcommittee comprising Dirk Craeynest, Michael González Harbour, Laurent Pautet, Luís Miguel Pinho, Erhard Plödereder, Jorge Real, and Tullio Vardanega met in Porto to make the final program selection. Various Program Committee members were assigned to shepherd some of the papers. We are grateful to all those who contributed to the technical program of the conference.

We would also like to thank the members of the Organizing Committee, for their valuable effort in taking care of all the bits and pieces that must fit together for a smooth run of the conference. We would like to thank Peter Dencker for the effort in the preparation of the industrial track, to Jorge Real for the attractive tutorial program and to José Ruiz for preparing the appealing exhibition of the conference. Also to Dirk Craeynest, who worked very hard to make the conference prominently visible, and to all the members of the Ada-Europe board for helping with the intricate details of the organization. A special thanks to Sandra Almeida, who took care of all details of the local organization.

Finally, we would like to express our appreciation to the authors of the contributions submitted to the conference, and to all the participants who helped in achieving the goal of the conference: providing a forum for researchers and practitioners for the exchange of information and ideas about reliable software technologies. We hope they all enjoyed the program as well as the social events of the 11th International Conference on Reliable Software Technologies.

June 2006

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