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«UML» 2004 – The Unified Modeling Language

Modeling Languages and Applications

7th International Conference
Lisbon, Portugal, October 11-15, 2004
Proceedings

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Preface

This volume comprises the final versions of the technical papers presented at the «UML» 2004 conference held in Lisbon (Portugal), October 11–15, 2004.

«UML» 2004 was the seventh conference in a series of annual «UML» conferences. The series started in 1998 and was located at Mulhouse (France); the following years saw the conference move to Fort Collins (USA) in 1999, York (UK) in 2000, Toronto (Canada) in 2001, Dresden (Germany) in 2002, San Francisco (USA) in 2003, and now Lisbon (Portugal) in 2004. During this time, the «UML» conference became one of the leading conferences in the area of object-oriented modeling. While in the first years the focus of the conference was on the scientific investigation of the Unified Modeling Language (UML), which had just been adopted by the Object Management Group (OMG) at the time, the focus has changed in recent years to innovations in techniques such as metamodeling, model transformations, model validation and verification, aspect orientation, and beyond. Many recent research activities have been especially stimulated by the Model Driven Architecture (MDA) initiative, started in 2000 by the OMG. The goal of MDA is the definition of a framework to enable the development of software purely based on models. In order to reflect the changes of recent years, the conference series «UML» will be continued, from 2005 onwards, under the name MODELS (Model Driven Engineering, Languages and Systems).

The call for papers for «UML» 2004 encouraged authors around the world to submit 157 abstracts and 135 technical papers. Each submission was reviewed by at least three referees, in most cases by four. Based on the reviews, the whole program committee discussed in four rounds the submissions' quality, leading to the selection of 30 submissions (26 research papers, 4 experience reports) for publication. In addition, the program committee selected one paper for the *Best Paper Award «UML» 2004*. After a detailed discussion of selected candidates the committee came to the conclusion that the paper by Alexandre Correa, Cláudia Werner (Brazil), “Applying Refactoring Techniques to UML/OCL Models”, deserved the award. Congratulations to the authors!

For managing the review process, the free version of Cyberchair (<http://www.cyberchair.org>) was used. We are grateful to its author Richard van de Stadt who also helped with advice. We also want to take the opportunity to express our greatest gratitude to Arnaud di Clemente whose work on the technical side was invaluable for managing the review process and preparing the conference proceedings.

Besides the presentation of technical papers in 10 sessions, the scientific program of «UML» 2004 included 3 keynote talks, “Generative Software Development”, given by Krzysztof Czarnecki (University of Waterloo), “Goals, Viewpoints, and Components — an MDA Perspective”, given by Desmond D’Souza (Kinetium), and “Putting Change at the Center of the Software Process”, given

by Oscar Nierstrasz (University of Bern), 12 workshops, including a doctoral symposium, 6 tutorials, and a special track with industry papers. In addition to this proceedings, a postconference book entitled *«UML» 2004 Satellite Activities* was published by Springer as LNCS volume 3297. This book includes the papers of the industry track, summaries of the workshops, tool papers and poster papers.

We are glad to express our gratitude to all persons and organizations who were involved in the organization of the conference: to the sponsors and supporters for the financial, organizational, and moral aid, to the reviewers for their dedication in writing reports and contributing to the discussion, and to the members of the local organization committee for their incredible work in coordinating all activities and making the local arrangements.

July 2004

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