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Preface

The International Symposium on Model-Based Safety and Assessment (IMBSA) has now been held for the fourth time. Since the first edition in Toulouse 2011, the workshop has evolved to a forum where brand new ideas from academia, leading-edge technology, and industrial experiences are brought together. The objectives are to present experiences and tools, to share ideas, and to federate the community. To foster academic and industrial collaboration, the program is split into three main parts: an academic part presenting new research, a tools and tutorials part presenting leading-edge development support, and an industrial part reporting on experiences and challenges in industrial practice.

The last conferences in Bordeaux (2012) and Versailles (2013) showed an increasing interest in practical demonstrations of model-based safety analysis techniques and tools. As a consequence, tool and tutorial demonstrations are now an important part in the event's program. We believe that a mixture of conventional talks about the newest achievements, presentation of practical experiences, and interactive learning allows for fruitful discussions, exchange of information, as well as future cooperation. Therefore, the focus of this year's edition in Munich, Germany, was placed on the tools and tutorials session, which, as a premiere, was given a full-day time slot.

Nevertheless, the main scientific and industrial contributions were presented in traditional talks and are published in this special volume of LNCS. For IMBSA 2014, we received 31 submission from authors of 12 countries. The best 15 of these papers where selected by an international Program Committee to be published in this volume. In addition to this LNCS volume, IMBSA 2014 also published separate tutorial and tool proceedings. These are aimed at an industrial audience and focus on recapitulating the practical demonstrations.

As program chairs, we want to extend a very warm thank you to all 24 members of the international Program Committee. The comprehensive review guaranteed the high quality of the accepted papers. We also want to thank the local organization team at the Otto von Guericke University of Magdeburg (OvGU), the chairs Martin Bott, Jürgen Mottok, and Christel Seguin, the Zühle Engineering Group, and the Gesellschaft für Informatik (GI).

Finally, we wish you pleasant reading of the articles in this volume. On behalf of everyone involved in this year's International Symposium on Model-Based Safety Assessment, we hope you will be joining us at the 2015 IMBSA edition.

August 2014

Frank Ortmeier
Antoine Rauzy

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