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Preface

This volume contains the proceedings of IFM 2010, the 8th International Conference on Integrated Formal Methods. The conference took place October 12–14, 2010, at the INRIA research center and the LORIA laboratory in Nancy, France. Previous editions were held in York, Dagstuhl, Turku, Canterbury, Eindhoven, Oxford, and Düsseldorf. The IFM conference series seeks to promote research into the combination of different formal methods, including the combination of formal with semiformal methods, for system development. Such combinations are useful in order to apprehend different aspects of systems, including functional correctness, security, performance, and fault-tolerance. The conference provides a forum for discussing recent advances in the state of the art and for disseminating the results among the academic and industrial community.

IFM 2010 received 59 submissions, covering the spectrum of integrated formal methods and ranging from formal and semiformal notations, semantics, refinement, verification, and model transformations to type systems, logics, tools, and case studies. Each submission was reviewed by at least three members of the Program Committee. The committee decided to accept 20 papers. The conference program also included invited talks by Christel Baier, John Fitzgerald, and Rajeev Joshi. The conference was preceded by a day dedicated to the Workshop on Formal Methods for Web Data Trust and Security (WTS 2010) and two tutorials, one on the verification of C# programs using Spec# and Boogie 2, by Rosemary Monahan, and the other on the TLA$^+$ proof system, by Denis Cousineau and Stephan Merz.

We are grateful to the members of the Program Committee and the external reviewers for their care and diligence. The reviewing process and the preparation of the proceedings were facilitated by the EasyChair system that we highly recommend to every program chair. We thank the INRIA Nancy research center for organizational and logistic support, and gratefully acknowledge the financial support by CNRS (through GDR GPL), Nancy University, GIS 3SGS, the Lorraine Region, and the Greater Nancy.

October 2010

Dominique Méry
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Table of Contents