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Hybrid Systems: Computation and Control

8th International Workshop, HSCC 2005
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Proceedings

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Preface

This volume contains the proceedings of the 8th Workshop on *Hybrid Systems: Computation and Control* (HSCC 2005) held in Zurich, Switzerland during March 9–11, 2005. The annual workshop on hybrid systems attracts researchers from academia and industry interested in modeling, analysis, and implementation of dynamic and reactive systems involving both discrete and continuous behaviors. The previous workshops in the HSCC series were held in Berkeley, USA (1998), Nijmegen, The Netherlands (1999), Pittsburgh, USA (2000), Rome, Italy (2001), Palo Alto, USA (2002), Prague, Czech Republic (2003), and Philadelphia, USA (2004). This year's HSCC was technically co-sponsored by the IEEE Control Systems Society.

The program consisted of 3 invited talks and 40 regular papers selected from 91 regular submissions. The program covered topics such as tools for analysis and verification, control and optimization, modeling, engineering applications, and emerging directions in programming language support and implementation.

We would like to thank the Program Committee members and reviewers for an excellent job of evaluating the submissions and participating in the online Program Committee discussions. Special thanks go to Markus P.J. Fromherz (Palo Alto Research Center, USA), Edward A. Lee (University of California, Berkeley, USA), and Pablo A. Parrilo (Massachusetts Institute of Technology, USA) for their participation as invited speakers. We are also grateful to the Steering Committee for helpful guidance and support. Many other people worked hard to make the HSCC 2005 a success. We would like to thank Frank J. Christophersen and Ernesto Wandeler, the Publicity Chairs (with the help of Urban Mäder); Martine D'Emma and Monica Fricker for local arrangements; and Frank J. Christophersen for putting together the proceedings. We would like to express our gratitude to HYCON and ARTIST, Networks of Excellence of the Sixth Framework Programme of the European Commission, for their financial support.

January 2005

Manfred Morari and Lothar Thiele

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