Lecture Notes in Computer Science 1703
Edited by G. Goos, J. Hartmanis and J. van Leeuwen

Springer
Berlin
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Laurence Pierre Thomas Kropf (Eds.)

Correct Hardware Design and Verification Methods

10th IFIP WG10.5 Advanced Research Working Conference, CHARME'99
Bad Herrenalb, Germany, September 27-29, 1999
Proceedings

Springer

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Volume Editors

Laurence Pierre
CMI/Université de Provence
39, rue Joliot-Curie, F-13453 Marseille Cedex 13, France
E-mail: laurence@gyptis.univ-mrs.fr

Thomas Kropf
Technische Informatik, Universität Tübingen
Im Sand 13, D-72076 Tübingen, Germany
E-mail: kropf@informatik.uni-tuebingen.de

Cataloging-in-Publication data applied for

Die Deutsche Bibliothek - CIP-Einheitsaufnahme

Correct hardware design and verification methods : 10th IFIP WG 10.5 advanced research working conference ; proceedings / CHARME '99, Bad Herrenalb, Germany, September 27 - 29, 1999. Pierre Laurence ; Thomas Kropf (ed.). - Berlin ; Heidelberg ; New York ; Barcelona ; Hong Kong ; London ; Milan ; Paris ; Singapore ; Tokyo : Springer, 1999
(Lecture notes in computer science ; Vol. 1703)
ISBN 3-540-66559-5

CR Subject Classification (1998): B, F.3.1, D.2.4, F.4.1, I.2.3, J.6

ISSN 0302-9743
ISBN 3-540-66559-5 Springer-Verlag Berlin Heidelberg New York

Typesetting: Camera-ready by author
SPIN 10704583 06/3142 – 5 4 3 2 1 0 Printed on acid-free paper

Preface

CHARME'99 is the tenth in a series of working conferences devoted to the development and use of leading-edge formal techniques and tools for the design and verification of hardware and systems. Previous conferences have been held in Darmstadt (1984), Edinburgh (1985), Grenoble (1986), Glasgow (1988), Leuven (1989), Torino (1991), Arles (1993), Frankfurt (1995) and Montreal (1997). This workshop and conference series has been organized in cooperation with IFIP WG 10.5. It is now the biannual counterpart of FMCAD, which takes place every even-numbered year in the USA. The 1999 event took place in Bad Herrenalb, a resort village located in the Black Forest close to the city of Karlsruhe.

The validation of functional and timing behavior is a major bottleneck in current VLSI design systems. A predominantly academic area of study until a few years ago, formal design and verification techniques are now migrating into industrial use. The aim of CHARME'99 is to bring together researchers and users from academia and industry working in this active area of research. Two invited talks illustrate major current trends: the presentation by Gérard Berry (Ecole des Mines de Paris, Sophia-Antipolis, France) is concerned with the use of synchronous languages in circuit design, and the talk given by Peter Jansen (BMW, Munich, Germany) demonstrates an application of formal methods in an industrial environment. The program also includes 20 regular presentations and 12 short presentations/poster exhibitions that have been selected from the 48 submitted papers.

The organizers are grateful to IFIP WG 10.5 for its support and to Intel, Siemens, Synopsys, and Verysys for their financial sponsorship, which considerably eased the organization of the conference. We are indebted to Renate Murr-Grobe and Klaus Schneider for their help in organizing this event, to Jörg Berdux for providing the nice layout of the call for papers, and to Eric Gascard for his technical assistance.

September 1999

Laurence Pierre, Program Chair
Thomas Kropf, Conference Chair
CHARME'99

Organization

CHARME'99 was organized in Bad Herrenalb by the University of Karlsruhe and the University of Tübingen (Germany), with the support of IFIP WG10.5.

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