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.

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.

Program Committee

Conference Chair: Thomas Kropf (Univ. of Tübingen, Germany)
Program Chair: Laurence Pierre (Univ. de Provence, France)
François Anceau (CNAM, France)
Dominique Borrione (Univ. Grenoble, France)
Albert Camilleri (Hewlett-Packard, USA)
Paolo Camurati (Politecnico di Torino, Italy)
Luc Claesen (IMEC, Belgium)
Eduard Cerny (Univ. de Montreal, Canada)
Werner Damm (Univ. Oldenburg, Germany)
Hans Eveking (T.U. Darmstadt, Germany)
Ganesh Gopalakrishnan (Univ. of Utah, USA)
Mike Gordon (Cambridge Univ., UK)
Werner Grass (Univ. Passau, Germany)
Mark Greenstreet (Univ. BC, Canada)
Warren Hunt (IBM, USA)
Steven Johnson (Indiana Univ., USA)
Ramayya Kumar (Verysys, Germany)
Robert Kurshan (Bell Labs, USA)
Tiziana Margaria (Univ. Dortmund, Germany)
Andrew Martin (Motorola, USA)
Ken McMillan (Cadence Berkeley Labs, USA)
Tom Melham (Univ. Glasgow, UK)
Paolo Prinetto (Politecnico di Torino, Italy)
Rajeev Ranjan (Synopsys, USA)
Mary Sheeran (Chalmers Univ., Sweden)
Jørgen Staunstrup (T.U. of Denmark, Denmark)
Sofiene Tahar (Concordia Univ., Canada)

Referees

Magdy Abadir	Per Bjesse	Eduard Cerny
E.M. Aboulhamid	Dominique Borrione	Koen Claessen
Otmane Ait-Mohamed	Olaf Burkart	Abdelkader Dekdouk
Ken Albin	Albert Camilleri	Stephen A. Edwards
F. Anceau	Paolo Camurati	Hans Eveking

Y. Feng
Eric Gascard
Jens Chr. Godskesen
Ganesh Gopalakrishnan
Mike Gordon
Werner Grass
Mark Greenstreet
Claudia Gsottberger
Pei-Hsin Ho
Stefan Hoereth
Peng Hong
Ravi Hosabettu
Jin Hou
Henrik Hulgaard
Warren A. Hunt
M. Jahanpour

Steve Johnson
Michael Jones
Jens Knoop
R. Kurshan
V. Levin
Panagiotis Manolios
Tiziana Margaria
Andrew Martin
Ken McMillan
Tom Melham
Michael Mendler
Marcus Müller-Olm
Ratan Nalumasu
K. Namjoshi
Félix Nicoli
Jean-Luc Paillet

Laurence Pierre
K.S. Prasad
Stefano Quer
Sriram K. Rajamani
Rajeev K. Ranjan
K. Ravi
Sophie Renault
Jun Sawada
Klaus Schneider
Ken Scott
Mary Sheeran
Tom Shiple
Jørgen Staunstrup
Terence Stroup
Sofiene Tahar
Raimund Ubar

Correct Hardware Design and Verification Methods
10th IFIP WG10.5 Advanced Research Working
Conference, CHARME'99, Bad Herrenalb, Germany,
September 27-29, 1999, Proceedings
Pierre, L.; Kropf, Th. (Eds.)
1999, XII, 376 p., Softcover