

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

2761

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CONCUR 2003 - Concurrency Theory

14th International Conference
Marseille, France, September 3-5, 2003
Proceedings



Springer

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Cataloging-in-Publication Data applied for

A catalog record for this book is available from the Library of Congress.

Bibliographic information published by Die Deutsche Bibliothek
Die Deutsche Bibliothek lists this publication in the Deutsche Nationalbibliografie;
detailed bibliographic data is available in the Internet at <<http://dnb.ddb.de>>.

CR Subject Classification (1998): F.3, F.1, D.3, D.1, C.2

ISSN 0302-9743

ISBN 3-540-40753-7 Springer-Verlag Berlin Heidelberg New York

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Springer-Verlag Berlin Heidelberg New York
a member of BertelsmannSpringer Science+Business Media GmbH

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Printed in Germany

Typesetting: Camera-ready by author, data conversion by PTP Berlin GmbH
Printed on acid-free paper SPIN: 10930809 06/3142 5 4 3 2 1 0

Preface

This volume contains the proceedings of the 14th International Conference on Concurrency Theory (CONCUR 2003) held in Marseille, France, September 3–5, 2003. The conference was hosted by the Université de Provence and the Laboratoire d'Informatique Fondamentale de Marseille (LIF).

The purpose of the CONCUR conferences is to bring together researchers, developers, and students in order to advance the theory of concurrency, and promote its applications. Interest in this topic is continuously growing, as a consequence of the importance and ubiquity of concurrent systems and their applications, and of the scientific relevance of their foundations. The scope of the conference covers all areas of semantics, logics, and verification techniques for concurrent systems. Topics include concurrency-related aspects of: models of computation and semantic domains, process algebras, Petri nets, event structures, real-time systems, hybrid systems, decidability, model-checking, verification and refinement techniques, term and graph rewriting, distributed programming, logic constraint programming, object-oriented programming, types systems and algorithms, case studies, and tools and environments for programming and verification.

Of the 107 papers submitted this year, 29 were accepted for presentation. Four invited talks were given at the conference: on *Distributed Monitoring of Concurrent and Asynchronous Systems* by Albert Beneveniste, on *Quantitative Verification via the MU-Calculus* by Luca De Alfaro, on *Input-Output Automata: Basic, Timed, Hybrid, Probabilistic, Dynamic, . . .* by Nancy Lynch, and on *Composition of Cryptographic Protocols in a Probabilistic Polynomial-Time Process Calculus* by Andre Scedrov.

Several workshops were organized together with CONCUR:

- EXPRESS, Expressiveness in Concurrency, organized by Flavio Corradini and Uwe Nestmann;
- FOCLASA, Foundations of Coordination Languages and Software Architectures, organized by Antonio Brogi, Jean-Marie Jacquet and Ernesto Pimentel;
- INFINITY, Verification of Infinite State Systems, organized by Philippe Schnoebelen;
- FORMATS, Formal Modelling and Analysis of Timed Systems, organized by Peter Niebert;
- GETCO, Geometric and Topological Methods in Concurrency, organized by Ulrich Fahrenberg;
- CMCIM, Categorical Methods for Concurrency, Interaction, and Mobility, organized by Thomas Hildebrandt and Alexander Kurz;
- BioConcur, Concurrent Models in Molecular Biology, organized by Vincent Danos and Cosimo Laneve;
- SPV, Security Protocols Verification, organized by Michael Rusinowitch.

We would like to thank the Program Committee members and the referees who assisted us in the evaluation of the submitted papers. Also, many thanks to the Local Organization Chair, Peter Niebert, and to the other members of the Local Organization, Rémi Morin, Sarah Zennou and all the members of the MOVE team. Thanks to the Workshop Chair, Silvano DalZilio, and to the workshops' organizers. Thanks to Vincent Vanackère for installing the START conference system. We would also like to thank the invited speakers and the authors of the submitted papers. The program committee was unanimous in considering that the quality of the submissions was unusually high this year.

We gratefully acknowledge support from Conseil Général des Bouches du Rhône, Région Provence-Alpes-Côte d'Azur, Ville de Marseille, Université de Provence, and Laboratoire d'Informatique Fondamentale de Marseille.

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