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CONCUR 2001 – Concurrency Theory

12th International Conference
Aalborg, Denmark, August 20-25, 2001
Proceedings



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Preface

This volume contains the proceedings of the 12th International Conference on Concurrency Theory (CONCUR 2001) hosted by Basic Research in Computer Science (BRICS) and the Department of Computer Science at Aalborg University, Denmark, August 20–25, 2001.

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 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 techniques, refinement techniques, term and graph rewriting, distributed programming, logic constraint programming, object-oriented programming, typing systems and algorithms, case studies, and tools and environments for programming and verification.

The first two CONCUR conferences were held in Amsterdam (NL) in 1990 and 1991. The following ones in Stony Brook (USA), Hildesheim (D), Uppsala (S), Philadelphia (USA), Pisa (I), Warsaw (PL), Nice (F), Eindhoven (NL), and State College (USA). The proceedings have appeared in Springer LNCS, as volumes 458, 527, 630, 715, 836, 962, 1119, 1243, 1466, 1664, and 1877.

Of the 78 regular papers submitted this year, 32 were accepted for presentation and are included in the present volume. The conference also included talks by four invited speakers: Bengt Jonsson (Uppsala University, S), Robin Milner (University of Cambridge, GB), Shankar Sastry (University of California, Berkeley, USA), and Steve Schneider (Royal Holloway, University of London, GB). Additionally, there were two invited tutorials by Holger Hermanns and Joost-Pieter Katoen (Twente University, NL), and John Hatcliff (Kansas State University, USA). The conference had five satellite events:

- EXPRESS 2001 (Expressiveness in Concurrency), organized by Luca Aceto and Prakash Panangaden, held on 20 August 2001.
- GETCO 2001 (Geometric and Topological Methods in Concurrency), organized by Martin Raussen, held on 25 August 2001.
- RT-TOOLS (Workshop of Real-Time Tools), organized by Paul Pettersson, held on 20 August 2001.
- MTCS 2001 (Models for Time-Critical Systems), organized by Flavio Corradini and Walter Vogler, held on 25 August 2001.
- FATES 2001 (Formal Approaches to Testing of Software), organized by Jan Tretmans and Ed Brinksma, held on 25 August 2001.

We would like to thank all the Program Committee members and the sub-referees who assisted in their work. Also, the Local Organization Chair, Anna Ingólfssdóttir, and the other members of the Local Organization, Luca Aceto and Arne Skou, and further members of BRICS deserve our gratitude for their contributions throughout the preparations. Thanks to the Workshop Chair, Hans Hüttel, and the workshop organizers. We would also like to thank the invited speakers and invited tutorial speakers, the authors of submitted papers, and all the participants of the conference. Special thanks to Brian Nielsen for installing and managing the START Conference system.

We gratefully acknowledge support from Det Obelske Familiefond, Thomas B. Thrige Foundation, Vaughan Pratt, Mindpass, the Department of Computer Science at Aalborg University, BRICS, and the City of Aalborg.

June 2001

Kim Guldstrand Larsen and Mogens Nielsen

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Table of Contents

Invited Talks

Channel Representations in Protocol Verification (Preliminary Version) ..	1
<i>P.A. Abdulla, B. Jonsson</i>	
BiGraphical Reactive Systems	16
<i>R. Milner</i>	
Control of Networks of Unmanned Vehicles	36
<i>S. Sastry</i>	
Process Algebra and Security	37
<i>S. Schneider</i>	

Invited Tutorials

Using the Bandera Tool Set to Model-Check Properties of Concurrent Java Software	39
<i>J. Hatcliff, M. Dwyer</i>	
Performance Evaluation := (Process Algebra + Model Checking) × Markov Chains	59
<i>H. Hermanns, J.-P. Katoen</i>	

Mobility

Typing Mobility in the Seal Calculus	82
<i>G. Castagna, G. Ghelli, F.Z. Nardelli</i>	
Reasoning about Security in Mobile Ambients	102
<i>M. Bugliesi, G. Castagna, S. Crafa</i>	
Synchronized Hyperedge Replacement with Name Mobility (A Graphical Calculus for Mobile Systems)	121
<i>D. Hirsch, U. Montanari</i>	
Dynamic Input/Output Automata: A Formal Model for Dynamic Systems	137
<i>P.C. Attie, N.A. Lynch</i>	

Probabilistic Systems

Probabilistic Information Flow in a Process Algebra	152
<i>A. Aldini</i>	
Symbolic Computation of Maximal Probabilistic Reachability	169
<i>M. Kwiatkowska, G. Norman, J. Sproston</i>	
Randomized Non-sequential Processes (Preliminary Version)	184
<i>H. Völzer</i>	

Model Checking

Liveness and Fairness in Process-Algebraic Verification	202
<i>A. Puhakka, A. Valmari</i>	
Bounded Reachability Checking with Process Semantics	218
<i>K. Heljanko</i>	
Techniques for Smaller Intermediary BDDs	233
<i>J. Geldenhuys, A. Valmari</i>	
An Algebraic Characterization of Data and Timed Languages	248
<i>P. Bouyer, A. Petit, D. Thérien</i>	

Process Algebra

A Faster-than Relation for Asynchronous Processes	262
<i>G. Lüttgen, W. Vogler</i>	
On the Power of Labels in Transition Systems	277
<i>J. Srba</i>	
On Barbed Equivalences in π -Calculus	292
<i>D. Sangiorgi, D. Walker</i>	
CCS with Priority Guards	305
<i>I. Phillips</i>	

Probabilistic Systems

A Testing Theory for Generally Distributed Stochastic Processes	321
<i>N. López, M. Núñez</i>	
An Algorithm for Quantitative Verification of Probabilistic Transition Systems	336
<i>F. van Breugel, J. Worrell</i>	
Compositional Methods for Probabilistic Systems	351
<i>L. de Alfaro, T.A. Henzinger, R. Jhala</i>	

Unfoldings and Prefixes

Towards an Efficient Algorithm for Unfolding Petri Nets	366
<i>V. Khomenko, M. Koutny</i>	
A Static Analysis Technique for Graph Transformation Systems	381
<i>P. Baldan, A. Corradini, B. König</i>	
Local First Search—A New Paradigm for Partial Order Reductions	396
<i>P. Niebert, M. Huhn, S. Zennou, D. Lugiez</i>	
Extending Memory Consistency of Finite Prefixes to Infinite Computations	411
<i>M. Glusman, S. Katz</i>	

Model Checking

Abstraction-Based Model Checking Using Modal Transition Systems	426
<i>P. Godefroid, M. Huth, R. Jagadeesan</i>	
Efficient Multiple-Valued Model-Checking Using Lattice Representations .	441
<i>M. Chechik, B. Devereux, S. Easterbrook, A.Y.C. Lai, V. Petrovykh</i>	
Divide and Compose: SCC Refinement for Language Emptiness	456
<i>C. Wang, R. Bloem, G.D. Hachtel, K. Ravi, F. Somenzi</i>	
Unavoidable Configurations of Parameterized Rings of Processes	472
<i>M. Dufлот, L. Fribourg, U. Nilsson</i>	

Logic and Compositionality

Logic of Global Synchrony	487
<i>Y. Chen, J.W. Sanders</i>	
Compositional Modeling of Reactive Systems Using Open Nets	502
<i>P. Baldan, A. Corradini, H. Ehrig, R. Heckel</i>	
Extended Temporal Logic Revisited	519
<i>O. Kupferman, N. Piterman, M.Y. Vardi</i>	

Games

Symbolic Algorithms for Infinite-State Games	536
<i>L. de Alfaro, T.A. Henzinger, R. Majumdar</i>	
A Game-Based Verification of Non-repudiation and Fair Exchange Protocols	551
<i>S. Kremer, J.-F. Raskin</i>	
The Control of Synchronous Systems, Part II	566
<i>L. de Alfaro, T.A. Henzinger, F.Y.C. Mang</i>	

Author Index	583
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