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The Book Of Traces Volker Diekert,Grzegorz Rozenberg,1995-03-07 The theory of traces employs techniques and tackles problems from quite diverse areas which include formal language theory combinatorics graph theory algebra logic and the theory of concurrent systems In all these areas the theory of traces has led to interesting problems and significant results It has made an especially big impact in formal language theory and the theory of concurrent systems In both these disciplines it is a well recognized and dynamic research area Within formal language theory it yields the theory of partially commutative monoids and provides an important connection between languages and graphs Within the theory of concurrent systems it provides an important formal framework for the analysis and synthesis of concurrent systems This monograph covers all important research lines of the theory of traces each chapter is devoted to one research line and is written by leading experts The book is organized in such a way that each chapter can be read independently and hence it is very suitable for advanced courses or seminars on formal language theory the theory of concurrent systems the theory of semigroups and combinatorics An extensive bibliography is included At present there is no other book of this type on trace theory **Advances in Petri Nets 1991** Helmut Plünnecke,Wolfgang Reisig,1991 The main idea behind the series of volumes Advances in Petri Nets is to present to the general computer science community recent results which are the most representative and significant for the development of the area Thepapers for the volumes are drawn mainly from the annual International Conferences on Applications and Theory of Petri Nets Selected papers from the latest conference are independently refereed and revised and extended as necessary Some further papers submitted directly to the editor are included Advances in Petri Nets 1991 covers the 11th International Conference on Applications and Theory of Petri Nets held in Paris France in June 1991 The volume contains the Bibliography of Petri Nets 1990 prepared by H Pl nnecke and W Reisig with over 4000 entries PUBLISHER S WEBSITE **Elektronische Informationsverarbeitung und Kybernetik** ,1986 **Verzeichnis lieferbarer Bücher** ,1999 **Mathematical Reviews** ,1987 **Advances in Petri Nets** ,1992 **Books in Series, 1876-1949** R.R. Bowker Company,1982 *Advance Working Papers* ,1988 **Bibliographic Guide to Computer Science** ,1987 **Books in Series** ,1985 Vols for 1980 issued in three parts Series Authors and Titles *Seminar on Concurrency* Stephen D. Brookes,Andrew W. Roscoe,Glynn Winskel,1985 *Seminar on Concurrency* Stephen D. Brookes,Andrew W. Roscoe,Glynn Winskel,1985-08-01 Seminar on Concurrency Stephen D. Brookes,A. W. Roscoe,Glynn Winskel,1985 **CONCUR '91** Jos C.M. Baeten,Jan F. Groote,1991-08-14 CONCUR 91 is the second international conference on concurrency theory organized in association with the NFI project Transfer It is a sequel to the CONCUR 90 conference Its basic aim is to communicate ongoing work in concurrency theory This proceedings volume contains 30 papers selected for presentation at the conference from 71 submitted together with four invited papers and abstracts of the other invited papers The papers are

organized into sections on process algebras logics and model checking applications and specification languages models and net theory design and real time tools and probabilities and programming languages The proceedings of CONCUR 90 are available asVolume 458 of Lecture Notes in Computer Science *CONCUR '97* Antoni Mazurkiewicz,1997-06-11 This book constitutes the refereed proceedings of the 8th International Conference on Concurrency Theory CONCUR 97 held in Warsaw Poland in July 1997 The 24 revised full papers presented were selected by the program committee for inclusion in the volume from a total of 41 high quality submissions The volume covers all current topics in the science of concurrency theory and its applications such as reactive systems hybrid systems model checking partial orders state charts program logic calculi infinite state systems verification and others **Concurrency Theory** Howard Bowman,Rodolfo Gomez,2006-02-28 Intheworldweliveinconcurrencyisthenorm Forexample thehumanbody isamassivelyconcurrentsystem comprisingahugenumberofcells allsim taneously evolving and independently engaging in their individual biological processing Inaddition inthebiologicalworld trulysequentialsystemsrarely arise However they are more common when manmade artefacts are cons ered In particular computer systems are often developed from a sequential perspective Why is this The simple reason is that it is easier for us to think about sequential rather than concurrent systems Thus we use sequentiality as a device to simplify the design process However the need for increasingly powerful exible and usable computer systems mitigates against simplifying sequentiality assumptions A good ample of this is the all powerful position held by the Internet which is highly concurrent at many di erent levels of decomposition Thus the modern c puter scientist and indeed the modern scientist in general is forced to think aboutconcurrentsystemsandthesubtleandintricatebehaviourthatemerges from the interaction of simultaneously evolving components Over a period of 25 years or so the eld of concurrency theory has been involved in the development of a set of mathematical techniques that can help system developers to think about and build concurrent systems These theories are the subject matter of this book *Introduction to Concurrency Theory* Roberto Gorrieri,Cristian Versari,2015-09-02 This book presents the fundamentals of concurrency theory with clarity and rigor The authors start with the semantic structure namely labelled transition systems which provides us with the means and the tools to express processes to compose them and to prove properties they enjoy The rest of the book relies on Milner s Calculus of Communicating Systems tailored versions of which are used to study various notions of equality between systems and to investigate in detail the expressive power of the models considered The authors proceed from very basic results to increasingly complex issues with many examples and exercises that help to reveal the many subtleties of the topic The book is suitable for advanced undergraduate and graduate students in computer science and engineering and scientists engaged with theories of concurrency CONCUR '96: Concurrency Theory Ugo Montanari,Vladimiro Sassone,1996-08-07 This book constitutes the refereed proceedings of the 8th International Conference on Concurrency Theory CONCUR 97 held in Warsaw Poland in July 1997 The 24 revised full papers

presented were selected by the program committee for inclusion in the volume from a total of 41 high quality submissions The volume covers all current topics in the science of concurrency theory and its applications such as reactive systems hybrid systems model checking partial orders state charts program logic calculi infinite state systems verification and others

Concurrency, Compositionality, and Correctness Dennis Dams,Ulrich Hannemann,Martin Steffen,2010-02-24 This Festschrift volume published in honor of Willem Paul de Roever contains 19 detailed papers written by the friends and colleagues of the honoree all eminent scientists in their own right These are preceded by a detailed bibliography and rounded off at the end of the book with a gallery of photographs The theme under which the papers have been collected is Concurrency Compositionality and Correctness reflecting the focus of Willem Paul de Roever s research career Topics addressed include model checking computer science and state machines ontology and mereology of domains game theory compiler correctness fair scheduling and encryption algorithms Structures in Concurrency Theory Jörg Desel,2013-03-08 This book is the proceedings of the Structures in Concurrency Theory workshop STRICT that was held from 11 th to l3th May 1995 in Berlin Germany It includes three invited contributions by J de Bakker E Best et aI and E R Olderog and M Schenke and all papers which were submitted and accepted for presentation Concurrency Theory deals with formal aspects of concurrent systems It uses partly competing and partly complementary formalisms and structures The aim of this workshop was to present and compare different formalisms and results in Concurrency Theory STRICT was organized by the Humboldt University Berlin and the ESPRIT Basic Research Working Group CALIBAN Original papers had been sought from all scientists in the field of Concurrency Theory The Programme Committee selected twenty contributions with various different topics including Petri Nets Process Algebras Distributed Algorithms Formal Semantics and others I am grateful to the Programme Committee and to the other referees for the careful evaluation of the submitted papers

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