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Specification Of Parallel Algorithms Dimacs Workshop May 9 11 1994

Keijiro Araki,Andy Galloway,Kenji Taguchi

Specification Of Parallel Algorithms Dimacs Workshop May 9 11 1994:

    Specification of Parallel Algorithms Guy E. Blelloch,K. Mani Chandy,Suresh Jagannathan,1994 This volume contains papers presented at the DIMACS workshop on Specification of Parallel Algorithms held in May 1994 at Princeton University The goal of the workshop was to bring together some of the best researchers in parallel languages algorithms and systems to present and discuss recent developments in their areas of expertise Among the topics discussed were new specification techniques for concurrent and distributed systems behavioral and operational specification techniques new parallel language and system abstractions novel concurrent architectures and systems large scale parallel systems specification tools and environments and proof techniques for concurrent systems   **Parallel and Distributed Processing** Jose Rolim,1998-03-18 This book constitutes the refereed proceedings of 10 international workshops held in conjunction with the merged 1998 IPPS SPDP symposia held in Orlando Florida US in March April 1998 The volume comprises 118 revised full papers presenting cutting edge research or work in progress In accordance with the workshops covered the papers are organized in topical sections on reconfigurable architectures run time systems for parallel programming biologically inspired solutions to parallel processing problems randomized parallel computing solving combinatorial optimization problems in parallel PC based networks of workstations fault tolerant parallel and distributed systems formal methods for parallel programming embedded HPC systems and applications and parallel and distributed real time systems   Models for Parallel and Distributed Computation R. Correa,Ines de Castro Dutra,Mario Fiallos,Luiz Fernando Gomes da Silva,2013-06-29 Parallel and distributed computation has been gaining a great lot of attention in the last decades During this period the advances attained in computing and communication technologies and the reduction in the costs of those technolo gies played a central role in the rapid growth of the interest in the use of parallel and distributed computation in a number of areas of engineering and sciences Many actual applications have been successfully implemented in various plat forms varying from pure shared memory to totally distributed models passing through hybrid approaches such as distributed shared memory architectures Parallel and distributed computation differs from dassical sequential compu tation in some of the following major aspects the number of processing units independent local dock for each unit the number of memory units and the programming model For representing this diversity and depending on what level we are looking at the problem researchers have proposed some models to abstract the main characteristics or parameters physical components or logical mechanisms of parallel computers The problem of establishing a suitable model is to find a reasonable trade off among simplicity power of expression and universality Then be able to study and analyze more precisely the behavior of parallel applications   **Research Directions in Parallel Functional Programming** Kevin Hammond,Greg Michaelson,2012-12-06 Programming is hard Building a large program is like constructing a steam locomotive through a hole the size of a postage stamp An artefact that is the fruit of hundreds of person years is only ever seen by anyone through a lOO line window In some ways it is astonishing that such

large systems work at all But parallel programming is much much harder There are so many more things to go wrong Debugging is a nightmare A bug that shows up on one run may never happen when you are looking for it but unfailingly returns as soon as your attention moves elsewhere A large fraction of the program s code can be made up of marshalling and coordination algorithms The core application can easily be obscured by a maze of plumbing Functional programming is a radical elegant high level attack on the programming problem Radical because it dramatically eschews side effects elegant because of its close connection with mathematics high level be cause you can say a lot in one line But functional programming is definitely not yet mainstream That s the trouble with radical approaches it s hard for them to break through and become mainstream But that doesn t make functional programming any less fun and it has turned out to be a won derful laboratory for rich type systems automatic garbage collection object models and other stuff that has made the jump into the mainstream **Abstract Machine Models for Parallel and Distributed Computing** M. Kara,J. R. Davy,D. Goodeve,1996 Abstract Machine Models have played a profound though frequently unacknowledged role in the development of modern computing systems They provide a precise definition of vital concepts allow system complexity to be managed by providing appropriate views of the activity under consideration enable reasoning about the correctness and quantitative performance of proposed problem solutions and encourage communication through a common medium of expression Abstract Models in Parallel and Distributed computing have a particularly important role in the development of contemporary systems encapsulating and controlling an inherently high degree of complexity The Parallel and Distributed computing communities have traditionally considered themselves to be separate However there is a significant contemporary interest in both of these communities in a common hardware model a set of workstation class machines connected by a high performance network The traditional Parallel Distributed distinction therefore appears under threat _Calculational System Design_ M. Broy,Ralf Steinbrüggen,1999 Computer Science has made considerable progress in making complex software and hardware systems more reliable This is a result of practical experience and continuous process improvement on one side and of a better and deeper understanding of the fundamentals of software and system engineering on the other side Recent encouraging trends are a strong integration of formal techniques with practical industrial development methods and more advanced support tools such as modelling verification and model checking support systems This active area of research has a relatively short term horizon with respect to transferring technology to industrial applications This volume is focusing on techniques and the scientific basis for calculation based development of software and hardware systems as a foundation for advanced methods and tools for software and system engineering This includes topics of specification description methodology refinement verification and implementation The volume presents new trends and insights reflecting the current state of the art in the scientific foundation of these techniques since such a foundation is an indispensable prerequisite for advanced development methods **Subject Guide to Books in Print** ,1991 _The Cumulative Book Index_ ,1996 A world list of books in the

English language   **Logic, Rewriting, and Concurrency** Narciso Martí-Oliet,Peter Csaba Ölveczky,Carolyn Talcott,2015-08-26 This Festschrift volume contains 28 refereed papers including personal memories essays and regular research papers by close collaborators and friends of Jos Meseguer to honor him on the occasion of his 65th birthday These papers were presented at a symposium at the University of Illinois at Urbana Champaign on September 23 25 2015 The symposium also featured invited talks by Claude and H l ne Kirchner and by Patrick Lincoln The foreword of this volume adds a brief overview of some of Jos s many scientific achievements followed by a bibliography of papers written by Jos
      Computer Science Today Jan Leeuwen,1995-10-18 This specially commissioned volume presents a unique collection of expository papers on major topics that are representative for computer science today The 38 contributions written by internationally leading experts in the computer science area on personal invitation demonstrate the scope and stature of the field today and give an impression of the chief motivations and challenges for tomorrow s computer science and information technology This anthology marks a truly extraordinary and festive moment it is the 1000th volume published in the Lecture Notes in Computer Science series It addresses all computer scientists and anybody interested in a representative overview of the field   **Recent Trends in Algebraic Development Techniques** Didier Bert,Christine Choppy,Peter Mosses,2004-02-02 This book constitutes the thoroughly refereed post workshop proceedings of the 14th International Workshop on Algebraic Development Techniques WADT 99 held in Toulouse France in September 1999 The 23 revised full papers presented together with three invited papers were carefully reviewed and selected from 69 workshop presentations The papers address the following topics algebraic specification and other specification formalisms test and validation concurrent processes applications logic and validation combining formalisms subsorts and partiality structuring rewriting co algebras and sketches refinement institutions and categories and ASM specifications   **Parallel and Distributed Processing** ,1998   **Challenges of Human Space Exploration** Marsha Freeman,2000-06-14 This non technical and well illustrated book tells the story of what was accomplished during the Shuttle Mir programme by three of the astronauts Based on interviews granted to the author by the astronauts the book describes the experiments they took and the lessons they learned In doing so it provides a unique insight into how adversity and challenges can be overcome in the process of exploration making it ideally suited to those planning space missions of a long duration Amongst the topics covered are growing food in space curing disease with space crystals and lessons learned form Mir It also contains interviews with managers of the space programme at the Johnson Space Centre and scientists involved in the experiments   **Scientific and Technical Aerospace Reports** ,1995   The Bulletin of Mathematics Books ,1992   **Performance-oriented Application Development for Distributed Architectures** M. Gerndt,2002 Annotation This publication is devoted to programming models languages and tools for performance oriented program development in commercial and scientific environments The included papers have been written based on presentations given at the workshop PADDA 2001 The goal of

the workshop was to identify common interests and techniques for performance oriented program development in commercial and scientific environments Distributed architectures currently dominate the field of highly parallel computing Distributed architectures based on Internet and mobile computing technologies are important target architectures in the domain of commercial computing too The papers in this publication come from the two areas scientific computing and commercial computing **Object-Technologies for Advanced Software** Kokichi Futatsugi,Satoshi Matsuoka,1996-02-28 This book constitutes the refereed proceedings of the Second International Symposium on Object Technologies for Advanced Software ISOTAS 96 held in Ishikawa Japan in March 1996 ISOTAS 96 was sponsored by renowned Japanese and international professional organisations The 14 papers included in final full versions together with the abstracts of four invited papers were carefully reviewed and selected from a total of 56 submissions they address most current topics in object software technology object oriented programming object oriented databases etc The volume is organized in sections on design and evolution parallelism and distribution meta and reflection and evolution of reuse **IFM'99** Keijiro Araki,Andy Galloway,Kenji Taguchi,2012-12-06 Formal methods have been established as the rigorous engineering methodology for the system development Applying formal methods to a large and complex system development often requires the modelling of different aspects of such a system For instance complex systems such as integrated avionics systems engine control software can involve functional and timing requirements that must be eventually implemented as executing code on a communicating distributed topology This book contains the papers presented at the First International Workshop on Integrated Formal Methods held at the University of York in June 1999 The conference provided a forum for the discussion of theoretical aspects of combing behavioural and state based formalisms and practical solutions to the industrial problems of this approach **Parallel Computing Technologies** Victor Malyshkin,1997-08-06 This book constitutes the refereed proceedings of the Fourth International Conference on Parallel Computing Technologies PaCT 97 held in Yaroslavl Russia in September 1997 The volume presents a total of 54 contributions 21 full papers 20 short papers 10 posters and three tutorials All papers were selected for inclusion in the proceedings from numerous submissions on the basis of three independent reviews The volume covers all current topics in parallel processing it is divided into sections on theory software hardware and architecture applications posters and tutorials **Formal Power Series and Algebraic Combinatorics, 1994** Louis J. Billera, Because of the inteplay among many fields of mathematics and science algebraic combinatorics is an area in which a wide variety of ideas and methods come together The papers in this volume reflect the most interesting aspects of this rich interaction and will be of interest to researchers in discrete mathematics and combinatorial systems

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