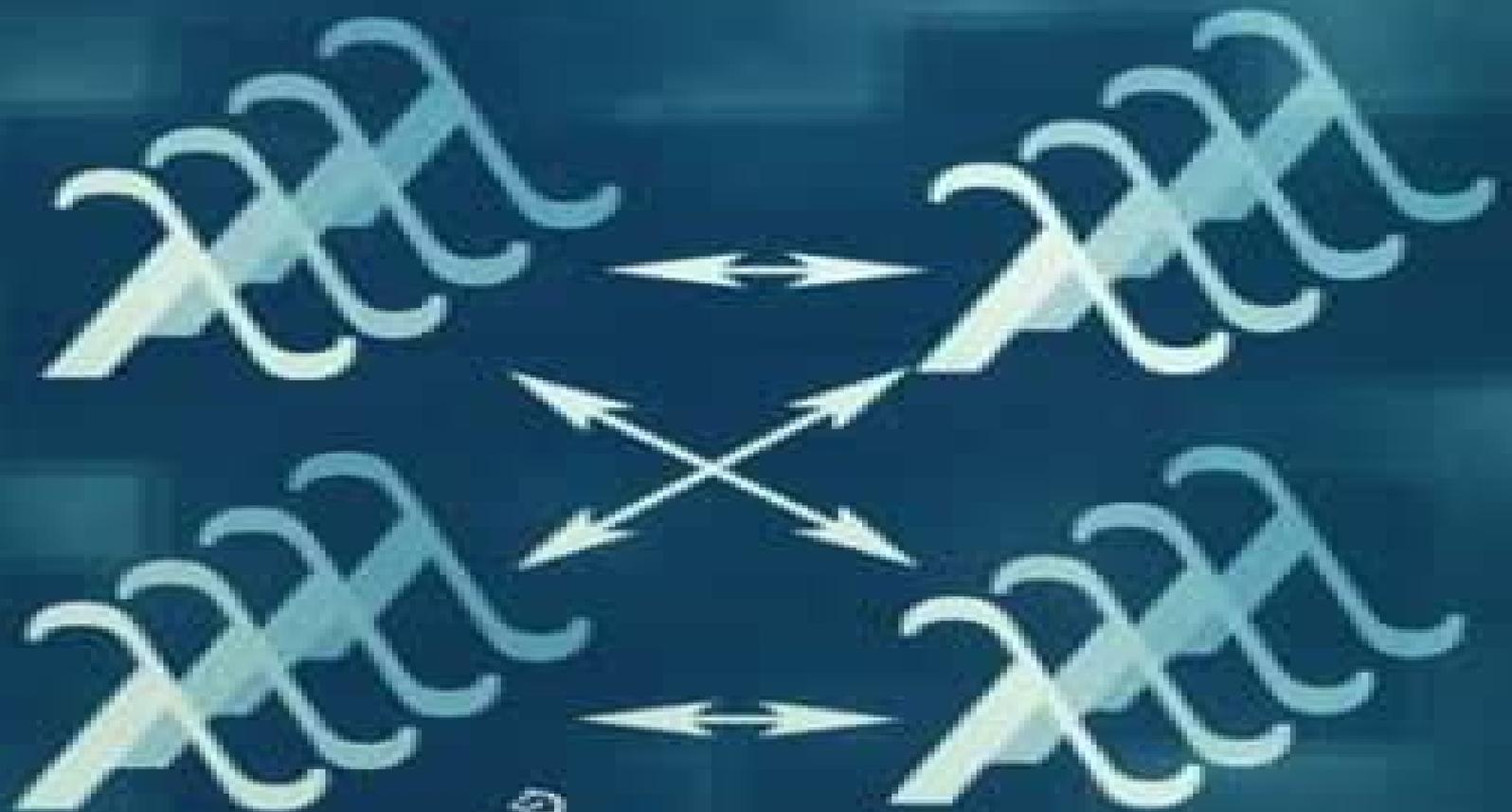


Kevin Hammond and Greg Michaelson (Eds.)

Research Directions in Parallel Functional Programming



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Research Directions In Parallel Functional Programming

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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 100 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 because 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 wonderful laboratory for rich type systems automatic garbage collection object models and other stuff that has made the jump into the mainstream

Research Directions in Parallel Functional Programming Kevin Hammond, 1999-11 This volume provides a state of the art survey of research trends in parallel functional programming The text is divided into two sections the first section gives comprehensive introductions to key issues such as foundations programming constructs proof architectures and implementations the second comprises shorter summaries of research areas which are either of particular interest at the moment or which promise to provide key developments in the near future Topics covered here include coordination languages performance monitoring data flow programming explicit parallelism BSP and cost modelling Contributions have been commissioned by key researchers and practitioners in the area including several from the US and Canada where this is an area of increasing interest Research Directions in Parallel Functional Programming will be of interest to researchers post graduate students and practitioners in all relevant areas

Encyclopedia of Parallel Computing David Padua, 2011-09-08 Containing over 300 entries in an A Z format the Encyclopedia of Parallel Computing provides easy intuitive access to relevant information for professionals and researchers seeking access to any aspect within the broad field of parallel computing Topics for this comprehensive reference were selected written and peer reviewed by an international pool of distinguished researchers in the field The Encyclopedia is broad in scope covering machine organization programming languages algorithms and applications Within each area concepts designs and specific implementations are presented The highly structured essays in this work comprise synonyms a definition and discussion of the topic bibliographies and links to related literature Extensive cross references to other entries within the Encyclopedia support efficient user friendly searchers for immediate access to useful information Key concepts presented in the Encyclopedia of

Parallel Computing include laws and metrics specific numerical and non numerical algorithms asynchronous algorithms libraries of subroutines benchmark suites applications sequential consistency and cache coherency machine classes such as clusters shared memory multiprocessors special purpose machines and dataflow machines specific machines such as Cray supercomputers IBM s cell processor and Intel s multicore machines race detection and auto parallelization parallel programming languages synchronization primitives collective operations message passing libraries checkpointing and operating systems Topics covered Speedup Efficiency Isoefficiency Redundancy Amdahls law Computer Architecture Concepts Parallel Machine Designs Benmarks Parallel Programming concepts design Algorithms Parallel applications This authoritative reference will be published in two formats print and online The online edition features hyperlinks to cross references and to additional significant research Related Subjects supercomputing high performance computing distributed computing

Parallel And Distributed Computing For Symbolic And Irregular Applications - Proceedings Of The International Workshop Pdsia '99 Takayasu Ito,Taiichi Yuasa,2000-04-05 PDSIA 99 was the fourth in a series of international workshops on parallel symbolic computing a basic yet challenging area with wide applications in high performance computing As in the previous meetings parallel symbolic languages and systems were the major topics However reflecting the latest advances in distributed computing systems the workshop also encompassed wider perspectives in parallel and distributed computing for symbolic and irregular applications

Computational Science – ICCS 2004 Marian Bubak,Geert Dick van Albada,Peter M.A. Sloot,Jack Dongarra,2004-05-12 The International Conference on Computational Science ICCS 2004 held in Krak ow Poland June 6 9 2004 was a follow up to the highly successful ICCS 2003 held at two locations in Melbourne Australia and St Petersburg Russia ICCS 2002 in Amsterdam The Netherlands and ICCS 2001 in San Francisco USA As computational science is still evolving in its quest for subjects of inves gation and e cient methods ICCS 2004 was devised as a forum for scientists from mathematics and computer science as the basic computing disciplines and application areas interested in advanced computational methods for physics chemistry life sciences engineering arts and humanities as well as computer system vendors and software developers The main objective of this conference was to discuss problems and solutions in all areas to identify new issues to shape future directions of research and to help users apply various advanced computational techniques The event harvested recent developments in com tationalgridsandnextgenerationcomputingsystems tools advancednumerical methods data driven systems and novel application elds such as complex stems nance econo physics and population evolution

Computational Science - ICCS 2008 ,2008 **Computational Science - ICCS 2008** Marian Bubak,Geert Dick van Albada,Jack Dongarra,Peter M.A. Sloot,2008-06-25 The three volume set LNCS 5101 5103 constitutes the refereed proceedings of the 8th International Conference on Computational Science ICCS 2008 held in Krakow Poland in June 2008 The 167 revised papers of the main conference track presented together with the abstracts of 7 keynote talks and the 100 revised papers from 14 workshops

were carefully reviewed and selected for inclusion in the three volumes. The main conference track was divided into approximately 20 parallel sessions addressing topics such as e science applications and systems scheduling and load balancing software services and tools new hardware and its applications computer networks simulation of complex systems image processing and visualization optimization techniques numerical linear algebra and numerical algorithms. The second volume contains workshop papers related to various computational research areas e.g. computer graphics and geometric modeling simulation of multiphysics multiscale systems computational chemistry and its applications computational finance and business intelligence physical biological and social networks geocomputation and teaching computational science. The third volume is mostly related to computer science topics such as bioinformatics challenges to computer science tools for program development and analysis in computational science software engineering for large scale computing collaborative and cooperative environments applications of workflows in computational science as well as intelligent agents and evolvable systems.

High-Performance Computing Laurence T. Yang, Minyi Guo, 2006-01-24. The state of the art of high performance computing. Prominent researchers from around the world have gathered to present the state of the art techniques and innovations in high performance computing (HPC) including Programming models for parallel computing graph oriented programming GOP OpenMP the stages and transformation SAT approach the bulk synchronous parallel BSP model Message Passing Interface MPI and Cilk Architectural and system support featuring the code tiling compiler technique the MigThread application level migration and checkpointing package the new prefetching scheme of atomicity a new receiver makes right data conversion method and lessons learned from applying reconfigurable computing to HPC Scheduling and resource management issues with heterogeneous systems bus saturation effects on SMPs genetic algorithms for distributed computing and novel task scheduling algorithms Clusters and grid computing design requirements grid middleware distributed virtual machines data grid services and performance boosting techniques security issues and open issues Peer to peer computing P2P including the proposed search mechanism of hybrid periodical flooding HPF and routing protocols for improved routing performance Wireless and mobile computing featuring discussions of implementing the Gateway Location Register GLR concept in 3G cellular networks maximizing network longevity and comparisons of QoS aware scatternet scheduling algorithms High performance applications including partitioners running Bag of Tasks applications on grids using low cost clusters to meet high demand applications and advanced convergent architectures and protocols High Performance Computing Paradigm and Infrastructure is an invaluable compendium for engineers IT professionals and researchers and students of computer science and applied mathematics.

[Research Directions in High-level Parallel Programming Languages](#) Jean-Pierre Banâtre, Daniel Le Métayer, 1992

Trends in Functional Programming Stephen Gilmore, 2000. This volume presents edited contributions to the second Scottish Functional Programming Workshop. The authors deal with highly active research areas and consider such issues as performance comparisons between different functional languages the

profitable use modern parallel architectures applications of functional languages and the use of principled type safety for term rewriting strategies

Implementation of Functional Languages Markus Mohnen, Pieter Koopman, 2003-06-29 This book constitutes the thoroughly refereed post proceedings of the 12th International Workshop on Implementing Functional Languages IFL 2000 held in Aachen Germany in September 2000 The 15 revised full papers presented have gone through a thorough round of post workshop reviewing and were selected from 33 workshop presentations Among the topics covered are language concepts type checking compilation techniques abstract interpretation automatic program generation abstract machine architectures array processing concurrent and parallel processing heap management runtime profiling performance measurement debugging and tracing and tools and programming techniques

Search-Based Software Engineering Márcio Barros, Yvan Labiche, 2015-07-27 This book constitutes the refereed proceedings of the 7th International Symposium on Search Based Software Engineering SSBSE 2015 held in Bergamo Italy in September 2015 The 12 revised full papers presented together with 2 invited talks 4 short papers 2 papers of the graduate track and 13 challenge track papers were carefully reviewed and selected from 51 submissions Search Based Software Engineering SBSE studies the application of meta heuristic optimization techniques to various software engineering problems ranging from requirements engineering to software testing and maintenance

Parallel Computing Technologies, 2003

Constructive Methods for Parallel Programming Sergei Gorlatch, 2002

Constructive Methods for Parallel Programming

Parallel Functional Languages and Compilers Bolesław Szymański, 1991

Explicit and Implicit Parallel Functional Programming Jost Berthold, 2010-07 This book investigates the relation between the two conflicting goals of explicitness and abstraction for the implementation of parallel functional languages and skeletons The first part describes the implementation of the parallel Haskell extension Eden in layers of increasing abstraction The author derives a minimal monadic sublanguage for elementary parallel coordination and discusses a generic runtime system for parallel computations major parts of which are Haskell The second main part concentrates on parallel skeletons abstract algorithmic patterns with parallel implementation Exemplarily the author discusses implementations for data parallel skeletons map map reduce Google MapReduce and for topology skeletons which describe interaction and communication in regularly structured process networks The book is an in depth study of parallel functional programming both for researchers interested in the first part and for professionals seeking new impulses for practical development of parallel programs It shows that functional languages provide a suitable abstraction level to reason about parallel programming and to circumvent its complexity

EURO-PAR '...', 2001

Proceedings of the ... ACM SIGPLAN Haskell Workshop, 2005

Research Directions in High-Level Parallel Programming Languages Jean Pierre Banatre, Daniel Le Metayer, 2014-01-15

Resources in Parallel and Concurrent Systems, 1991

Computer Systems Organization Parallel architecture

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