Kevin Hammond and Greg Michaelson (Eds)

# Research Directions in
# Parallel Functional Programming

# Research Directions In Parallel Functional Programming

**Laurence T. Yang,Minyi Guo**

**Research Directions In Parallel Functional Programming:**

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 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

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**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     Implementation and Application of Functional Languages Viktória Zsók,Andrew Butterfield,2007-08-14 This volume constitutes the post proceedings of the 18th International Workshop on Implementation and Applications of Functional Languages Fifteen full papers are presented Each one was submitted to two rounds of reviews to ensure accuracy thoroughness and readability The papers address all current theoretical and methodological issues in functional and function based languages     *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     Parallel Computing Technologies Victor Malyshkin,2003-09-09 The PaCT 2003 Parallel Computing Technologies conference was a four day conference held in Nizhni Novgorod on September 15 19 2003 This was the 7th international conference of the PaCT series organized in Russia every odd year The rst conference PaCT 91 was held in Novosibirsk Academgorodok September 7 11 1991 The next PaCT conferences were held in Obninsk near Moscow 30August 4September

1993 St Petersburg September12 15 1995 Yaroslavl September 9 12 1997 Pushkin near St Petersburg September 6 10 1999 and Akademgorodok Novosibirsk September 3 7 2001 The PaCT proceedings are published by Springer Verlag in the LNCS series PaCT 2003 was jointly organized by the Institute of Computational thematics and Mathematical Geophysics of the Russian Academy of Sciences Novosibirsk and the State University of Nizhni Novgorod The purpose of the conference was to bring together scientists working with theory architectures software hardware and solutions of large scale problems in order to provide integrated discussions on Parallel Computing Technologies

Theconferenceattractedabout100participantsfromaroundtheworld Authors from 23 countries submitted 78 papers Of those submitted 38 papers were selected for the conference as regular ones there were also 4 invited papers In addition anumberofposterswerepresented Allthepaperswereinternationally reviewed by at least three referees As usual a demo session was organized for the participants Many thanks to our sponsors the Russian Academy of Sciences the Russian Fund for Basic Research the Russian State Committee of Higher Education IBM and Intel Intel laboratory in Nizhni Novgorod for their nancial support The organizers highly appreciate the help of the Association Antenne Provence France

**Implementation of Functional Languages** Kevin Hammond,Tony Davie,Chris Clack,2003-07-31 This book constitutes the thoroughly refereed post workshop proceedings of the 10th International Workshop on the Implementation of Functional Languages IFL 98 held in London UK in September 1998 The 15 revised full papers presented were carefully selected during two rounds of reviewing The volume covers a wide range of topics including parallel process organization parallel profiling compilation and semantics of parallel systems programming methodology interrupt handling strictness analysis concurrency and message passing and inter language working *Computational Science — ICCS 2004* Marian Bubak,Geert Dick van Albada,Peter M.A. Sloot,Jack Dongarra,2004-05-26 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 **Patterns and Skeletons for Parallel and Distributed Computing** Fethi A. Rabhi,Sergei Gorlatch,2011-06-28 Patterns and Skeletons for Parallel and

Distributed Computing is a unique survey of research work in high level parallel and distributed computing over the past ten years Comprising contributions from the leading researchers in Europe and the US it looks at interaction patterns and their role in parallel and distributed processing and demonstrates for the first time the link between skeletons and design patterns It focuses on computation and communication structures that are beyond simple message passing or remote procedure calling and also on pragmatic approaches that lead to practical design and programming methodologies with their associated compilers and tools The book is divided into two parts which cover skeletons related material such as expressing and composing skeletons formal transformation cost modelling and languages compilers and run time systems for skeleton based programming design patterns and other related concepts applied to other areas such as real time embedded and distributed systems It will be an essential reference for researchers undertaking new projects in this area and will also provide useful background reading for advanced undergraduate and postgraduate courses on parallel or distributed system design

*Euro-Par 2002. Parallel Processing* Burkhard Monien,Rainer Feldmann,2003-08-02 Euro Par the European Conference on Parallel Computing is an international conference series dedicated to the promotion and advancement of all aspects of parallel computing The major themes can be divided into the broad categories of hardware software algorithms and applications for parallel computing The objective of Euro Par is to provide a forum within which to promote the dev opment of parallel computing both as an industrial technique and an academic discipline extending the frontiers of both the state of the art and the state of the practice This is particularlyimportant at a time when parallel computing is undergoing strong and sustained development and experiencing real industrial take up The main audience for and participants in Euro Par are researchers in academic departments government laboratories and industrial organizations Euro Par aims to become the primarychoice of such professionals for the p sentation of new results in their speci c areas Euro Par is also interested in applications that demonstrate the e ectiveness of the main Euro Par themes Euro Par has its own Internet domain with a permanent website where the historyof the conference series is described http www euro par org The Euro Par conference series is sponsored bythe Association of Computer chineryand the International Federation of Information Processing Euro Par 2002 at Paderborn Germany Euro Par 2002 was organized bythe Paderborn Center for Parallel Comput 2 2 ing PC and was held at the Heinz Nixdorf MuseumsForum HNF **Programming Languages and Systems** Atsushi Ohori,2003-11-12 This book constitutes the refereed proceedings of the First Asian Symposium on Programming Languages and Systems APLAS 2003 held in Beijing China in November 2003 The 24 revised full papers presented together with abstracts of 3 invited talks were carefully reviewed and selected from 75 submissions The papers are devoted to concurrency and parallelism language implementation and optimization mobile computation and security program analysis and verification program transformation and calculation programming paradigms and language design programming techniques and applications program semantics categorical and logical foundations tools and environments type theory and type systems

**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    Implementation of Functional Languages Pieter Koopman,Chris Clack,2006-12-30 This book constitutes the thoroughly refereed post workshop proceedings of the 11th International Workshop on the Implementation of Functional Languages IFL 99 held in Lochem The Netherlands in September 1999 The 11 revised full papers presented were carefully selected during two rounds of reviewing The papers are organized in sections on applications compilation techniques language concepts and parallelism    **Parallel Computing** Christian Bischof,2008 ParCo2007 marks a quarter of a century of the international conferences on parallel computing that started in Berlin in 1983 The aim of the conference is to give an overview of the developments applications and future trends in high performance computing for various platforms    Implementation and Application of Functional Languages Olaf Chitil,2008-08-25 This book constitutes the thoroughly refereed post proceedings of the 19th International Workshop on Implementation and Applications of Functional Languages IFL 2007 held in Freiburg Germany in September 2007 The 15 revised full papers presented went through two rounds of reviewing and improvement and were selected from 33 submissions The papers address all current theoretical and methodological issues on functional and function based languages such as type checking contract checking compilation parallelism development and debugging data structures parsing as well as various performance related concepts

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