

Computer Science 320

Clumping in Parallel Java

The Parallel Java 2 Library Computer Science

E Durkheim



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Applied Parallel and Scientific Computing Pekka Manninen, Per Öster, 2013-02-12 This volume constitutes the refereed proceedings of the 11th International Conference on Applied Parallel and Scientific Computing PARA 2012 held in Helsinki Finland in June 2012 The 35 revised full papers presented were selected from numerous submissions and are organized in five technical sessions covering the topics of advances in HPC applications parallel algorithms performance analyses and optimization application of parallel computing in industry and engineering and HPC interval methods In addition three of the topical minisymposia are described by a corresponding overview article on the minisymposia topic In order to cover the state of the art of the field at the end of the book a set of abstracts describe some of the conference talks not elaborated into full articles

Parallel Processing and Applied Mathematics Roman Wyrzykowski, Ewa Deelman, Jack Dongarra, Konrad Karczewski, Jacek Kitowski, Kazimierz Wiatr, 2016-04-05 This two volume set LNCS 9573 and LNCS 9574 constitutes the refereed proceedings of the 11th International Conference of Parallel Processing and Applied Mathematics PPAM 2015 held in Krakow Poland in September 2015 The 111 revised full papers presented in both volumes were carefully reviewed and selected from 196 submissions The focus of PPAM 2015 was on models algorithms and software tools which facilitate efficient and convenient utilization of modern parallel and distributed computing architectures as well as on large scale applications including big data problems

HPI Future SOC Lab - Proceedings 2020 Christoph Meinel, Andreas Polze, Karsten Beins, Rolf Strotmann, Ulrich Seibold, Kurt Rödszus, Jürgen Müller, Jürgen Sommer, 2024-08-09 The HPI Future SOC Lab is a cooperation of the Hasso Plattner Institute HPI and industry partners Its mission is to enable and promote exchange and interaction between the research community and the industry partners The HPI Future SOC Lab provides researchers with free of charge access to a complete infrastructure of state of the art hard and software This infrastructure includes components which might be too expensive for an ordinary research environment such as servers with up to 64 cores and 2 TB main memory The offerings address researchers particularly from but not limited to the areas of computer science and business information systems Main areas of research include cloud computing parallelization and In Memory technologies This technical report presents results of research projects executed in 2020 Selected projects have presented their results on April 21st and November 10th 2020 at the Future SOC Lab Day events

HPI Future SOC Lab - Proceedings 2019 Christoph Meinel, Andreas Polze, Karsten Beins, Rolf Strotmann, Ulrich Seibold, Kurt Rödszus, Jürgen Müller, 2024-06-28 EN The HPI Future SOC Lab is a cooperation of the Hasso Plattner Institute HPI and industry partners Its mission is to enable and promote exchange and interaction between the research community and the industry partners The HPI Future SOC Lab provides researchers with free of charge access to a complete infrastructure of state of the art hard and software This infrastructure includes components which might be too expensive for an ordinary research environment such as servers with up to 64 cores and 2 TB main memory The offerings address researchers particularly from but not limited to

the areas of computer science and business information systems Main areas of research include cloud computing parallelization and In Memory technologies This technical report presents results of research projects executed in 2019 Selected projects have presented their results on April 9th and November 12th 2019 at the Future SOC Lab Day events DE Das Future SOC Lab am HPI ist eine Kooperation des Hasso Plattner Instituts mit verschiedenen Industriepartnern Seine Aufgabe ist die Ermöglichung und Förderung des Austausches zwischen Forschungsgemeinschaft und Industrie Am Lab wird interessierten Wissenschaftlern eine Infrastruktur von neuester Hard und Software kostenfrei für Forschungszwecke zur Verfügung gestellt Dazu zählen teilweise noch nicht am Markt verfügbare Technologien die im normalen Hochschulbereich in der Regel nicht zu finanzieren wären bspw Server mit bis zu 64 Cores und 2 TB Hauptspeicher Diese Angebote richten sich insbesondere an Wissenschaftler in den Gebieten Informatik und Wirtschaftsinformatik Einige der Schwerpunkte sind Cloud Computing Parallelisierung und In Memory Technologien In diesem Technischen Bericht werden die Ergebnisse der Forschungsprojekte des Jahres 2019 vorgestellt Ausgewählte Projekte stellten ihre Ergebnisse am 09 April und 12 November 2019 im Rahmen des Future SOC Lab Tags vor *Parallel Computing: On the Road to Exascale* Gerhard R. Joubert, Hugh Leather, Mark Parsons, Frans Peters, 2016-04-15 As predicted by Gordon E Moore in 1965 the performance of computer processors increased at an exponential rate Nevertheless the increases in computing speeds of single processor machines were eventually curtailed by physical constraints This led to the development of parallel computing and whilst progress has been made in this field the complexities of parallel algorithm design the deficiencies of the available software development tools and the complexity of scheduling tasks over thousands and even millions of processing nodes represent a major challenge to the construction and use of more powerful parallel systems This book presents the proceedings of the biennial International Conference on Parallel Computing ParCo2015 held in Edinburgh Scotland in September 2015 Topics covered include computer architecture and performance programming models and methods as well as applications The book also includes two invited talks and a number of mini symposia Exascale computing holds enormous promise in terms of increasing scientific knowledge acquisition and thus contributing to the future well being and prosperity of mankind A number of innovative approaches to the development and use of future high performance and high throughput systems are to be found in this book which will be of interest to all those whose work involves the handling and processing of large amounts of data

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

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