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LARGE SCALE NETWORK-CENTRIC DISTRIBUTED SYSTEMS

Edited by
Hamid Sarbazi-Azad
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Large Scale Network Centric Distributed Systems 2013

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**Abdelkader Hameurlain,Josef
Küng,Roland Wagner,Sherif Sakr,Lizhe
Wang,Albert Zomaya**

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Large Scale Network-Centric Distributed Systems Hamid Sarbazi-Azad, Albert Y. Zomaya, 2013-10-10 A highly accessible reference offering a broad range of topics and insights on large scale network centric distributed systems Evolving from the fields of high performance computing and networking large scale network centric distributed systems continues to grow as one of the most important topics in computing and communication and many interdisciplinary areas Dealing with both wired and wireless networks this book focuses on the design and performance issues of such systems Large Scale Network Centric Distributed Systems provides in depth coverage ranging from ground level hardware issues such as buffer organization router delay and flow control to the high level issues immediately concerning application or system users including parallel programming middleware and OS support for such computing systems Arranged in five parts it explains and analyzes complex topics to an unprecedented degree Part 1 Multicore and Many Core Mc Systems on Chip Part 2 Pervasive Ubiquitous Computing and Peer to Peer Systems Part 3 Wireless Mobile Networks Part 4 Grid and Cloud Computing Part 5 Other Topics Related to Network Centric Computing and Its Applications Large Scale Network Centric Distributed Systems is an incredibly useful resource for practitioners postgraduate students postdocs and researchers

Resource Management in Distributed Systems Anwesha Mukherjee, Debashis De, Rajkumar Buyya, 2024-05-31 This book focuses on resource management in distributed computing systems The book presents a collection of original unpublished and high quality research works which report the latest research advances on resource discovery allocation scheduling etc in cloud fog and edge computing The topics covered in the book are resource management in cloud computing edge computing fog computing dew computing resource management in Internet of things resource allocation scheduling monitoring and orchestration in distributed computing systems resource management in 5G network and beyond latency aware resource management energy efficient resource management interoperability and portability security and privacy in resource management reliable resource management trustworthiness in resource management fault tolerance in resource management and simulation related to resource management *Cognitive Computing for Big Data Systems Over IoT* Arun Kumar Sangaiah, Arunkumar Thangavelu, Venkatesan Meenakshi Sundaram, 2017-12-30 This book brings a high level of fluidity to analytics and addresses recent trends innovative ideas challenges and cognitive computing solutions in big data and the Internet of Things IoT It explores domain knowledge data science reasoning and cognitive methods in the context of the IoT extending current data science approaches by incorporating insights from experts as well as a notion of artificial intelligence and performing inferences on the knowledge The book provides a comprehensive overview of the constituent paradigms underlying cognitive computing methods which illustrate the increased focus on big data in IoT problems as they evolve It includes novel in depth fundamental research contributions from a methodological application in data science accomplishing sustainable solution for the future perspective Mainly focusing on the design of the best cognitive embedded

data science technologies to process and analyze the large amount of data collected through the IoT and aid better decision making the book discusses adapting decision making approaches under cognitive computing paradigms to demonstrate how the proposed procedures as well as big data and IoT problems can be handled in practice This book is a valuable resource for scientists professionals researchers and academicians dealing with the new challenges and advances in the specific areas of cognitive computing and data science approaches

Transactions on Large-Scale Data- and Knowledge-Centered Systems XVII Abdelkader Hameurlain,Josef Küng,Roland Wagner,Ladjel Bellatreche,Mukesh Mohania,2015-01-29 The LNCS journal Transactions on Large Scale Data and Knowledge Centered Systems focuses on data management knowledge discovery and knowledge processing which are core and hot topics in computer science Since the 1990s the Internet has become the main driving force behind application development in all domains An increase in the demand for resource sharing across different sites connected through networks has led to an evolution of data and knowledge management systems from centralized systems to decentralized systems enabling large scale distributed applications providing high scalability Current decentralized systems still focus on data and knowledge as their main resource Feasibility of these systems relies basically on P2P peer to peer techniques and the support of agent systems with scaling and decentralized control Synergy between grids P2P systems and agent technologies is the key to data and knowledge centered systems in large scale environments This the 17th issue of Transactions on Large Scale Data and Knowledge Centered Systems contains extended and revised versions of five papers selected from the 24 full and 8 short papers presented at the 15th International Conference on Data Warehousing and Knowledge Discovery DaWaK 2013 held in Prague The Czech Republic in August 2013 Of the five papers two cover data warehousing aspects related to query processing optimization in advanced platforms specifically Map Reduce and parallel databases and three cover knowledge discovery specifically the causal network inference problem dimensionality reduction and the quality of pattern mining task

Transactions on Large-Scale Data- and Knowledge-Centered Systems XXI Abdelkader Hameurlain,Josef Küng,Roland Wagner,Alfredo Cuzzocrea,Umeshwar Dayal,2015-07-16 The LNCS journal Transactions on Large Scale Data and Knowledge Centered Systems focuses on data management knowledge discovery and knowledge processing which are core and hot topics in computer science Since the 1990s the Internet has become the main driving force behind application development in all domains An increase in the demand for resource sharing across different sites connected through networks has led to an evolution of data and knowledge management systems from centralized systems to decentralized systems enabling large scale distributed applications providing high scalability Current decentralized systems still focus on data and knowledge as their main resource Feasibility of these systems relies basically on P2P peer to peer techniques and the support of agent systems with scaling and decentralized control Synergy between grids P2P systems and agent technologies is the key to data and knowledge centered systems in large scale environments This volume the 21st issue of Transactions on Large Scale Data and Knowledge Centered Systems focuses on Data Warehousing

and Knowledge Discovery from Big Data and contains extended and revised versions of eight papers selected as the best papers from the 14th International Conference on Data Warehousing and Knowledge Discovery DaWaK 2012 held in Vienna Austria during September 3-6 2012 These papers cover several advanced Big Data topics ranging from data cube computation using MapReduce to multiple aggregations over multidimensional databases from data warehousing systems over complex energy data to OLAP based prediction models from extended query engines for continuous stream analytics to popular pattern mining and from rare pattern mining to enhanced knowledge discovery from large cross document corpora

Transactions on Large-Scale Data- and Knowledge-Centered Systems XX Abdelkader Hameurlain, Josef Küng, Roland Wagner, Sherif Sakr, Lizhe Wang, Albert Zomaya, 2015-03-17 The LNCS journal Transactions on Large Scale Data and Knowledge Centered Systems focuses on data management knowledge discovery and knowledge processing which are core and hot topics in computer science Since the 1990s the Internet has become the main driving force behind application development in all domains An increase in the demand for resource sharing across different sites connected through networks has led to an evolution of data and knowledge management systems from centralized systems to decentralized systems enabling large scale distributed applications providing high scalability Current decentralized systems still focus on data and knowledge as their main resource Feasibility of these systems relies basically on P2P peer to peer techniques and the support of agent systems with scaling and decentralized control Synergy between grids P2P systems and agent technologies is the key to data and knowledge centered systems in large scale environments This the 20th issue of Transactions on Large Scale Data and Knowledge Centered Systems presents a representative and useful selection of articles covering a wide range of important topics in the domain of advanced techniques for big data management Big data has become a popular term used to describe the exponential growth and availability of data The recent radical expansion and integration of computation networking digital devices and data storage has provided a robust platform for the explosion in big data as well as being the means by which big data are generated processed shared and analyzed In general data are only useful if meaning and value can be extracted from them Big data discovery enables data scientists and other analysts to uncover patterns and correlations through analysis of large volumes of data of diverse types Insights gleaned from big data discovery can provide businesses with significant competitive advantages leading to more successful marketing campaigns decreased customer churn and reduced loss from fraud In practice the growing demand for large scale data processing and data analysis applications has spurred the development of novel solutions from both industry and academia

Internet and Distributed Computing Systems Mukaddim Pathan, Guiyi Wei, Giancarlo Fortino, 2013-10-22 This book constitutes the refereed proceedings of the 6th International Conference on Internet and Distributed Computing Systems IDCS 2013 held in Hangzhou China in October 2013 The 20 revised full papers and 13 invited papers presented were carefully reviewed and selected from numerous submissions The papers cover the following topics ad hoc and sensor networks internet and Web

technologies network operations and management information infrastructure resilience as well as fault tolerance and availability

Developing Interoperable and Federated Cloud Architecture Kecskemeti, Gabor, Kertesz, Attila, Nemeth, Zsolt, 2016-04-11 As cloud technology continues to advance and be utilized many service providers have begun to employ multiple networks or cloud federations however as the popularity of these federations increases so does potential utilization challenges Developing Interoperable and Federated Cloud Architecture provides valuable insight into current and emergent research occurring within the field of cloud infrastructures Featuring barriers recent developments and practical applications on the interoperability issues of federated cloud architectures this book is a focused reference for administrators developers and cloud users interested in energy awareness scheduling and federation policies and usage Transactions on Large-Scale Data- and Knowledge-Centered Systems XLI Abdelkader Hameurlain, Roland Wagner, Tran Khanh Dang, 2019-02-06 The LNCS journal Transactions on Large Scale Data and Knowledge Centered Systems focuses on data management knowledge discovery and knowledge processing which are core and hot topics in computer science Since the 1990s the Internet has become the main driving force behind application development in all domains An increase in the demand for resource sharing across different sites connected through networks has led to an evolution of data and knowledge management systems from centralized systems to decentralized systems enabling large scale distributed applications providing high scalability Current decentralized systems still focus on data and knowledge as their main resource Feasibility of these systems relies basically on P2P peer to peer techniques and the support of agent systems with scaling and decentralized control Synergy between grids P2P systems and agent technologies is the key to data and knowledge centered systems in large scale environments This the 41st issue of Transactions on Large Scale Data and Knowledge Centered Systems contains seven revised extended papers selected from the 4th International Conference on Future Data and Security Engineering FDSE 2017 which was held in Ho Chi Minh City Vietnam in November December 2017 The main focus of this special issue is on data and security engineering as well as engineering applications **Transactions on Large-Scale Data- and Knowledge-Centered Systems XLVI** Abdelkader Hameurlain, A Min Tjoa, 2020-11-20 The LNCS journal Transactions on Large Scale Data and Knowledge Centered Systems focuses on data management knowledge discovery and knowledge processing which are core and hot topics in computer science Since the 1990s the Internet has become the main driving force behind application development in all domains An increase in the demand for resource sharing e g computing resources services metadata data sources across different sites connected through networks has led to an evolution of data and knowledge management systems from centralized systems to decentralized systems enabling large scale distributed applications providing high scalability This the 46th issue of Transactions on Large Scale Data and Knowledge Centered Systems contains six fully revised selected regular papers Topics covered include an elastic framework for genomic data management medical data cloud federations temporal pattern mining scalable schema discovery load

shedding and selectivity estimation using linked Bayesian networks **Transactions on Large-Scale Data- and Knowledge-Centered Systems XLVII** Abdelkader Hameurlain,A Min Tjoa,Richard Chbeir,2021-01-16 The LNCS journal Transactions on Large Scale Data and Knowledge Centered Systems focuses on data management knowledge discovery and knowledge processing which are core and hot topics in computer science Since the 1990s the Internet has become the main driving force behind application development in all domains An increase in the demand for resource sharing across different sites connected through networks has led to an evolution of data and knowledge management systems from centralized systems to decentralized systems enabling large scale distributed applications providing high scalability This the 47th issue of Transactions on Large Scale Data and Knowledge Centered Systems constitutes a special issue focusing on Digital Ecosystems and Social Networks The 9 revised selected papers cover topics that include Social Big Data Data Analysis Cloud Based Feedback Experience Ecosystems Pervasive Environments and Smart Systems **Transactions on Large-Scale Data- and Knowledge-Centered Systems XXVIII** Abdelkader Hameurlain,Josef Küng,Roland Wagner,Qimin Chen,2016-09-09 This the 28th issue of Transactions on Large Scale Data and Knowledge Centered Systems contains extended and revised versions of six papers presented at the 26th International Conference on Database and Expert Systems Applications DEXA 2015 held in Valencia Spain in September 2015 Topics covered include efficient graph processing machine learning on big data multistore big data integration ontology matching and the optimization of histograms for the Semantic Web **Transactions on Large-Scale Data- and Knowledge-Centered Systems IX** Abdelkader Hameurlain,Josef Küng,Roland Wagner,2013-07-19 The LNCS journal Transactions on Large Scale Data and Knowledge Centered Systems focuses on data management knowledge discovery and knowledge processing which are core and hot topics in computer science Since the 1990s the Internet has become the main driving force behind application development in all domains An increase in the demand for resource sharing across different sites connected through networks has led to an evolution of data and knowledge management systems from centralized systems to decentralized systems enabling large scale distributed applications providing high scalability Current decentralized systems still focus on data and knowledge as their main resource Feasibility of these systems relies basically on P2P peer to peer techniques and the support of agent systems with scaling and decentralized control Synergy between grids P2P systems and agent technologies is the key to data and knowledge centered systems in large scale environments This the ninth issue of Transactions on Large Scale Data and Knowledge Centered Systems contains five revised selected regular papers focusing on the following topics top k query processing in P2P systems self stabilizing consensus average algorithms in distributed sensor networks recoverable encryption schemes xml data in a multi system environment and pairwise similarity for cluster ensemble problems

Transactional Memory. Foundations, Algorithms, Tools, and Applications Rachid Guerraoui,Paolo Romano,2014-12-29 The advent of multi core architectures and cloud computing has brought parallel programming into the mainstream of

software development Unfortunately writing scalable parallel programs using traditional lock based synchronization primitives is well known to be a hard time consuming and error prone task mastered by only a minority of specialized programmers Building on the familiar abstraction of atomic transactions Transactional Memory TM promises to free programmers from the complexity of conventional synchronization schemes simplifying the development and verification of concurrent programs enhancing code reliability and boosting productivity Over the last decade TM has been subject to intense research on a broad range of aspects including hardware and operating systems support language integration as well as algorithms and theoretical foundations On the industrial side the major players of the software and hardware markets have been up front in the research and development of prototypal products providing support for TM systems This has recently led to the introduction of hardware TM implementations on mainstream commercial microprocessors and to the integration of TM support for the world s leading open source compiler In such a vast inter disciplinary domain the Euro TM COST Action IC1001 has served as a catalyzer and a bridge for the various research communities looking at disparate yet subtly interconnected aspects of TM This book emerged from the idea having Euro TM experts compile recent results in the TM area in a single and consistent volume Contributions have been carefully selected and revised to provide a broad coverage of several fundamental issues associated with the design and implementation of TM systems including their theoretical underpinnings and algorithmic foundations programming language integration and verification tools hardware supports distributed TM systems self tuning mechanisms as well as lessons learnt from building complex TM based applications

Transactions on Large-Scale Data- and Knowledge-Centered Systems XIX Abdelkader

Hameurlain,Josef Küng,Roland Wagner,Devis Bianchini,Valeria De Antonellis,Roberto De Virgilio,2015-02-23 The LNCS journal Transactions on Large Scale Data and Knowledge Centered Systems focuses on data management knowledge discovery and knowledge processing which are core and hot topics in computer science Since the 1990s the Internet has become the main driving force behind application development in all domains An increase in the demand for resource sharing across different sites connected through networks has led to an evolution of data and knowledge management systems from centralized systems to decentralized systems enabling large scale distributed applications providing high scalability Current decentralized systems still focus on data and knowledge as their main resource Feasibility of these systems relies basically on P2P peer to peer techniques and the support of agent systems with scaling and decentralized control Synergy between grids P2P systems and agent technologies is the key to data and knowledge centered systems in large scale environments This the 19th issue of Transactions on Large Scale Data and Knowledge Centered Systems contains four high quality papers investigating the areas of linked data and big data from a data management perspective Two of the four papers focus on the application of clustering techniques in performing inference and search over linked data sources One paper leverages graph analysis techniques to enable application level integration of institutional data and a final paper

describes an approach for protecting users profile data from disclosure tampering and improper use User-Centric and Information-Centric Networking and Services M. Bala Krishna, 2019-04-29 User Centric Networks UCN and Information Centric Networks ICN are new communication paradigms to increase the efficiency of content delivery and also content availability In this new concept the network infrastructure actively contributes to content caching and distribution This book presents the basic concepts of UCN and ICN describes the main architecture proposals for these networks and discusses the main challenges to their development The book also looks at the current challenges for this concept including naming routing and caching on the network core elements several aspects of content security user privacy and practical issues in implementing UCN and ICN **Transactions on Large-Scale Data- and Knowledge-Centered Systems XXV**

Abdelkader Hameurlain, Josef Küng, Roland Wagner, 2016-02-19 This the 25th issue of Transactions on Large Scale Data and Knowledge Centered Systems contains five fully revised selected papers focusing on data and knowledge management systems Topics covered include a framework consisting of two heuristics with slightly different characteristics to compute the action rating of data stores a theoretical and experimental study of filter based equijoins in a MapReduce environment a constraint programming approach based on constraint reasoning to study the view selection and data placement problem given a limited amount of resources a formalization and an approximate algorithm to tackle the problem of source selection and query decomposition in federations of SPARQL endpoints and a matcher factory enabling the generation of a dedicated schema matcher for a given schema matching scenario Transactions on Large-Scale Data- and Knowledge-Centered Systems XXXIII Abdelkader Hameurlain, Josef Küng, Roland Wagner, Reza Akbarinia, Esther Pacitti, 2017-08-07 The LNCS journal Transactions on Large Scale Data and Knowledge Centered Systems focuses on data management knowledge discovery and knowledge processing which are core and hot topics in computer science Since the 1990s the Internet has become the main driving force behind application development in all domains An increase in the demand for resource sharing across different sites connected through networks has led to an evolution of data and knowledge management systems from centralized systems to decentralized systems enabling large scale distributed applications providing high scalability Current decentralized systems still focus on data and knowledge as their main resource Feasibility of these systems relies basically on P2P peer to peer techniques and the support of agent systems with scaling and decentralized control Synergy between grids P2P systems and agent technologies is the key to data and knowledge centered systems in large scale environments This the 33rd issue of Transactions on Large Scale Data and Knowledge Centered Systems contains five revised selected regular papers Topics covered include distributed massive data streams storage systems scientific workflow scheduling cost optimization of data flows and fusion strategies **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

Dynamic Sharing of Wireless Spectrum Haibo Zhou, Quan Yu, Xuemin (Sherman) Shen, Shaohua Wu, Qinyu Zhang, 2016-09-02 This book focuses on the current research on the dynamic spectrum sharing for efficient spectrum resource utilization which covers the overlay spectrum sharing underlay spectrum sharing and database assisted spectrum sharing related research issues Followed by a comprehensive review and in depth discussion of the current state of the art research literature and industry standardization this book first presents a novel overlay spectrum sharing framework for dynamic utilization of available cellular frequency bands formulates the dynamic spectrum sharing problem as a dynamic resource demand supply matching problem and accordingly develops a distributed fast spectrum sharing algorithm to solve the resource matching problem A self awareness power control approach for multi hop routing selection is proposed which can establish an effective and practical routing selection optimization in secondary access networks and minimize the interference to primary users Finally this book offers dynamic secondary access scheme for database assisted spectrum sharing networks which is targeted to support the prosperous wireless multimedia networking applications by leveraging the TV white spaces of geolocation databases while satisfying QoS guarantees of secondary users The overlay spectrum sharing underlay spectrum sharing and database assisted white spaces spectrum sharing research results that are presented in this book provide useful insights for the design of next generation wireless access networks This book motivates a new line of thinking for efficient spectrum resource utilization and performance enhancements of future wireless access applications

The Enigmatic Realm of **Large Scale Network Centric Distributed Systems 2013 10 28**: Unleashing the Language is Inner Magic

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