Borko Furht Armando Escalante Editors

# Handbook of Data Intensive Computing



# **Handbook Of Data Intensive Computing**

Lei Shi

#### **Handbook Of Data Intensive Computing:**

Handbook of Data Intensive Computing Borko Furht, Armando Escalante, 2011-12-10 Data Intensive Computing refers to capturing managing analyzing and understanding data at volumes and rates that push the frontiers of current technologies The challenge of data intensive computing is to provide the hardware architectures and related software systems and techniques which are capable of transforming ultra large data into valuable knowledge Handbook of Data Intensive Computing is written by leading international experts in the field Experts from academia research laboratories and private industry address both theory and application Data intensive computing demands a fundamentally different set of principles than mainstream computing Data intensive applications typically are well suited for large scale parallelism over the data and also require an extremely high degree of fault tolerance reliability and availability Real world examples are provided throughout the book Handbook of Data Intensive Computing is designed as a reference for practitioners and researchers including programmers computer and system infrastructure designers and developers This book can also be beneficial for business managers entrepreneurs and investors Handbook of Data Intensive Computing ,2011-12-01 Cloud Computing Borko Furht, Armando Escalante, 2010-09-11 Cloud computing has become a significant technology trend Experts believe cloud computing is currently reshaping information technology and the IT marketplace The advantages of using cloud computing include cost savings speed to market access to greater computing resources high availability and scalability Handbook of Cloud Computing includes contributions from world experts in the field of cloud computing from academia research laboratories and private industry This book presents the systems tools and services of the leading providers of cloud computing including Google Yahoo Amazon IBM and Microsoft The basic concepts of cloud computing and cloud computing applications are also introduced Current and future technologies applied in cloud computing are also discussed Case studies examples and exercises are provided throughout Handbook of Cloud Computing is intended for advanced level students and researchers in computer science and electrical engineering as a reference book This handbook is also beneficial to computer and system infrastructure designers developers business managers entrepreneurs and investors within the cloud computing related industry **Engineering Agile Big-Data Systems** Kevin Feeney, Jim Davies, James Welch, 2022-09-01 To be effective data intensive systems require extensive ongoing customisation to reflect changing user requirements organisational policies and the structure and interpretation of the data they hold Manual customisation is expensive time consuming and error prone In large complex systems the value of the data can be such that exhaustive testing is necessary before any new feature can be added to the existing design In most cases the precise details of requirements policies and data will change during the lifetime of the system forcing a choice between expensive modification and continued operation with an inefficient design Engineering Agile Big Data Systems outlines an approach to dealing with these problems in software and data engineering describing a methodology for aligning these processes

throughout product lifecycles It discusses tools which can be used to achieve these goals and in a number of case studies shows how the tools and methodology have been used to improve a variety of academic and business systems of Research on Cloud Computing and Big Data Applications in IoT Gupta, B. B., Agrawal, Dharma P., 2019-04-12 Today cloud computing big data and the internet of things IoT are becoming indubitable parts of modern information and communication systems They cover not only information and communication technology but also all types of systems in society including within the realms of business finance industry manufacturing and management Therefore it is critical to remain up to date on the latest advancements and applications as well as current issues and challenges The Handbook of Research on Cloud Computing and Big Data Applications in IoT is a pivotal reference source that provides relevant theoretical frameworks and the latest empirical research findings on principles challenges and applications of cloud computing big data and IoT While highlighting topics such as fog computing language interaction and scheduling algorithms this publication is ideally designed for software developers computer engineers scientists professionals academicians researchers and students **Advanced** Informatics for Computing Research Ashish Kumar Luhach, Dharm Singh Jat, Kamarul Bin Ghazali Hawari, Xiao-Zhi Gao, Pawan Lingras, 2019-09-16 This two volume set CCIS 1075 and CCIS 1076 constitutes the refereed proceedings of the Third International Conference on Advanced Informatics for Computing Research ICAICR 2019 held in Shimla India in June 2019 The 78 revised full papers presented were carefully reviewed and selected from 382 submissions The papers are organized in topical sections on computing methodologies hardware information systems networks software and its engineering Knowledge Management in the Development of Data-Intensive Systems Ivan Mistrik, Matthias Galster, Bruce R. Maxim, Bedir Tekinerdogan, 2021-06-15 Data intensive systems are software applications that process and generate Big Data Data intensive systems support the use of large amounts of data strategically and efficiently to provide intelligence For example examining industrial sensor data or business process data can enhance production guide proactive improvements of development processes or optimize supply chain systems Designing data intensive software systems is difficult because distribution of knowledge across stakeholders creates a symmetry of ignorance because a shared vision of the future requires the development of new knowledge that extends and synthesizes existing knowledge Knowledge Management in the Development of Data Intensive Systems addresses new challenges arising from knowledge management in the development of data intensive software systems These challenges concern requirements architectural design detailed design implementation and maintenance The book covers the current state and future directions of knowledge management in development of data intensive software systems. The book features both academic and industrial contributions which discuss the role software engineering can play for addressing challenges that confront developing maintaining and evolving systems data intensive software systems of cloud and mobile services and the scalability requirements they imply The book features software engineering approaches that can efficiently deal with data intensive systems as well as applications and

use cases benefiting from data intensive systems Providing a comprehensive reference on the notion of data intensive systems from a technical and non technical perspective the book focuses uniquely on software engineering and knowledge management in the design and maintenance of data intensive systems The book covers constructing deploying and maintaining high quality software products and software engineering in and for dynamic and flexible environments This book provides a holistic guide for those who need to understand the impact of variability on all aspects of the software life cycle It leverages practical experience and evidence to look ahead at the challenges faced by organizations in a fast moving world with increasingly fast changing customer requirements and expectations

Human Factors in Software and Systems

Engineering Tareq Z. Ahram, 2022-07-24 Human Factors in Software and Systems Engineering Proceedings of the 13th International Conference on Applied Human Factors and Ergonomics AHFE 2022 July 24 28 2022 New York USA

Emerging Research in Computing, Information, Communication and Applications N. R. Shetty, L. M. Patnaik, N. H. Prasad, N. Nalini, 2017-11-15 This book presents the proceedings of International Conference on Emerging Research in Computing Information Communication and Applications ERCICA 2016 ERCICA provides an interdisciplinary forum for researchers professional engineers and scientists educators and technologists to discuss debate and promote research and technology in the upcoming areas of computing information communication and their applications. The book discusses these emerging research areas providing a valuable resource for researchers and practicing engineers alike Massive Data Sets James Abello, Panos M. Pardalos, Mauricio G.C. Resende, 2002-03-31 The Handbook of Massive Data Sets is comprised of articles written by experts on selected topics that deal with some major aspect of massive data sets It contains chapters on information retrieval both in the internet and in the traditional sense web crawlers massive graphs string processing data compression clustering methods wavelets optimization external memory algorithms and data structures the US national cluster project high performance computing data warehouses data cubes semi structured data data squashing data quality billing in the large fraud detection and data processing in astrophysics air pollution biomolecular data earth observation and the environment The proliferation of massive data sets brings with it a series of special computational challenges This data avalanche arises in a wide range of scientific and commercial applications Handbook On Big Data And Machine Learning In The Physical Sciences (In 2 Volumes), 2020-03-10 This compendium provides a comprehensive collection of the emergent applications of big data machine learning and artificial intelligence technologies to present day physical sciences ranging from materials theory and imaging to predictive synthesis and automated research This area of research is among the most rapidly developing in the last several years in areas spanning materials science chemistry and condensed matter physics Written by world renowned researchers the compilation of two authoritative volumes provides a distinct summary of the modern advances in instrument driven data generation and analytics establishing the links between the big data and predictive theories and outlining the emerging field of data and physics driven predictive and autonomous

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Eckhart, Arndt Lüder, Edgar Weippl, 2019-11-09 This book examines the requirements risks and solutions to improve the security and quality of complex cyber physical systems C CPS such as production systems power plants and airplanes in order to ascertain whether it is possible to protect engineering organizations against cyber threats and to ensure engineering project quality The book consists of three parts that logically build upon each other Part I Product Engineering of Complex Cyber Physical Systems discusses the structure and behavior of engineering organizations producing complex cyber physical systems providing insights into processes and engineering activities and highlighting the requirements and border conditions for secure and high quality engineering Part II Engineering Quality Improvement addresses quality improvements with a focus on engineering data generation exchange aggregation and use within an engineering organization and the need for proper data modeling and engineering result validation Lastly Part III Engineering Security Improvement considers security aspects concerning C CPS engineering including engineering organizations security assessments and engineering data management security concepts and technologies that may be leveraged to mitigate the manipulation of engineering data as well as design and run time aspects of secure complex cyber physical systems. The book is intended for several target groups it enables computer scientists to identify research issues related to the development of new methods architectures and technologies for improving quality and security in multi disciplinary engineering pushing forward the current state of the art It also allows researchers involved in the engineering of C CPS to gain a better understanding of the challenges and requirements of multi disciplinary engineering that will guide them in their future research and development activities Lastly it offers practicing engineers and managers with engineering backgrounds insights into the benefits and limitations of applicable methods architectures and technologies for selected use cases Handbook of Research on Cloud Infrastructures for Big Data Analytics Raj, Pethuru, Deka, Ganesh Chandra, 2014-03-31 Clouds are being positioned as the next generation consolidated centralized yet federated IT infrastructure for hosting all kinds of IT platforms and for deploying maintaining and managing a wider variety of personal as well as professional applications and services Handbook of Research on Cloud Infrastructures for Big Data Analytics focuses exclusively on the topic of cloud sponsored big data analytics for creating flexible and futuristic organizations. This book helps researchers and practitioners as well as business entrepreneurs to make informed decisions and consider appropriate action to simplify and streamline the arduous journey Big Data Analytics Saumyadipta Pyne, B.L.S. Prakasa Rao, S.B. Rao, 2016-10-12 This book has towards smarter enterprises a collection of articles written by Big Data experts to describe some of the cutting edge methods and applications from their respective areas of interest and provides the reader with a detailed overview of the field of Big Data Analytics as it is practiced today The chapters cover technical aspects of key areas that generate and use Big Data such as management and finance medicine and healthcare genome cytome and microbiome graphs and networks Internet of Things Big Data standards bench marking of systems and others In addition to different applications key algorithmic approaches such as graph

partitioning clustering and finite mixture modelling of high dimensional data are also covered The varied collection of themes in this volume introduces the reader to the richness of the emerging field of Big Data Analytics 
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