



Testing Data and **Data-Centric** Applications

Testing data and data-centric applications is a vital step for organizations that are using their data to drive their business. This article explains what data-centric testing is, and provides an overview of a methodology that can be used to implement data-centric testing in your organization.

BY JOHN WELCH

Pdf Data Information Quality Data Centric Applications

**Dennis Kundisch, Daniel Veit, Tim
Weitzel, Christof Weinhardt**



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Data and Information Quality Carlo Batini, Monica Scannapieco, 2016-03-23 This book provides a systematic and comparative description of the vast number of research issues related to the quality of data and information. It does so by delivering a sound integrated and comprehensive overview of the state of the art and future development of data and information quality in databases and information systems. To this end it presents an extensive description of the techniques that constitute the core of data and information quality research including record linkage also called object identification, data integration, error localization and correction and examines the related techniques in a comprehensive and original methodological framework. Quality dimension definitions and adopted models are also analyzed in detail and differences between the proposed solutions are highlighted and discussed. Furthermore while systematically describing data and information quality as an autonomous research area, paradigms and influences deriving from other areas such as probability theory, statistical data analysis, data mining, knowledge representation and machine learning are also included. Last not least the book also highlights very practical solutions such as methodologies, benchmarks for the most effective techniques, case studies and examples. The book has been written primarily for researchers in the fields of databases and information management or in natural sciences who are interested in investigating properties of data and information that have an impact on the quality of experiments, processes and on real life. The material presented is also sufficiently self contained for masters or PhD level courses and it covers all the fundamentals and topics without the need for other textbooks. Data and information system administrators and practitioners who deal with systems exposed to data quality issues and as a result need a systematization of the field and practical methods in the area will also benefit from the combination of concrete practical approaches with sound theoretical formalisms.

Enterprise Applications and Services in the Finance Industry Dennis Kundisch, Daniel Veit, Tim Weitzel, Christof Weinhardt, 2009-06-19 This book constitutes the proceedings of the 4th International Workshop on Enterprise Applications and Services in the Finance Industry FinanceCom2008 held in Paris France on December 13 2008. The workshop spans multiple disciplines including technical, economic, sociological and behavioral sciences. The guiding theme of this workshop was concerned with innovations in the financial services industry driven by either new business models or changed regulations. The nine presented papers and the keynote speech were carefully reviewed and selected from numerous submissions. The topics covered are financial markets and customers service oriented architectures and regulation and compliance.

Information Modelling and Knowledge Bases XXXIII Marina Tropmann-Frick, Hannu Jaakkola, Bernhard Thalheim, Yasushi Kiyoki, Naofumi Yoshida, 2022-02-15 The technology of information modelling and knowledge bases addresses the complexities of modelling in digital transformation and digital innovation reaching beyond the traditional borders of information systems and academic research in computer science. This book presents 21 papers from the 31st International conference on Information Modeling and Knowledge Bases EJC 2021.

hosted by the Department Informatik of the University of Applied Sciences in Hamburg Germany and held as a virtual event from 7 to 9 September 2021 due to restrictions caused by the Corona virus The conference provides a research forum for academics and practitioners dealing with information and knowledge to exchange scientific results and experiences and EJC 2021 covered a wide range of themes extending knowledge discovery through conceptual modeling knowledge and information modeling and discovery linguistic modeling cross cultural communication and social computing environmental modeling and engineering and multimedia data modeling and systems As always the conference was open to new topics related to its main themes meaning the content emphasis of the EJC conferences is always able to adapt to the changes taking place in the research field and the 21 papers included here after rigorous review selection and upgrading are the result of presentations comments and discussions during the conference Providing an up to the minute overview of the technology of information modeling and knowledge bases the book will be of interest to all those working in the field

Contemporary Perspectives in Data Mining Kenneth D. Lawrence, Ronald K. Klimberg, 2025-06-20 The series Contemporary Perspectives in Data Mining is composed of blind refereed scholarly research methods and applications of data mining The series is targeted both at the academic community as well as the business practitioner **Advances in Databases and Information Systems** Barbara Catania, Mirjana Ivanovic, Bernhard Thalheim, 2010-09-16 This volume contains the best papers presented at the 14th East European Conference on Advances in Databases and Information Systems ADBIS 2010 held during September 20-24 2010 in Novi Sad Serbia ADBIS 2010 continued the ADBIS series held in St Petersburg 1997 Poznan 1998 Maribor 1999 Prague 2000 Vilnius 2001 Bratislava 2002 Dresden 2003 Budapest 2004 Tallinn 2005 Thessaloniki 2006 Varna 2007 Pori 2008 and Riga 2009 The main objective of the ADBIS series of conferences is to provide a forum for the dissemination of research accomplishments and to promote interaction and collaboration between the database and information systems research communities from Central and East European countries and the rest of the world The ADBIS conferences provide an international platform for the presentation of research on database theory development of advanced DBMS technologies and their advanced applications ADBIS 2010 spans a wide area of interests covering all major aspects related to theory and applications of database technology and information systems Two different submission lines were considered for ADBIS 2010 one within the classic track and another one within a special track organisation ADBIS comprised five tracks 1 Conceptual Modeling in Systems Engineering CMSE 2 Data Mining and Information Extraction DMIE 3 Business Processes in E-Commerce Systems e-commerce 4 Personal Identifiable Information Privacy Ethics and Security PIIPES 5 **Data Engineering for Data-Driven Marketing** Balamurugan Baluswamy, Veena Grover, M. K. Nallakuruppan, Vijay Anand Rajasekaran, Mariofanna Milanova, 2025-03-10 Offering a thorough exploration of the symbiotic relationship between data engineering and modern marketing strategies Data Engineering for Data Driven Marketing uses a strategic lens to delve into methodologies of collecting transforming and storing diverse data sources Data Quality Rupa

Mahanti,2019-03-18 This is not the kind of book that you ll read one time and be done with So scan it quickly the first time through to get an idea of its breadth Then dig in on one topic of special importance to your work Finally use it as a reference to guide your next steps learn details and broaden your perspective from the foreword by Thomas C Redman Ph D the Data Doc Good data is a source of myriad opportunities while bad data is a tremendous burden Companies that manage their data effectively are able to achieve a competitive advantage in the marketplace while bad data like cancer can weaken and kill an organization In this comprehensive book Rupa Mahanti provides guidance on the different aspects of data quality with the aim to be able to improve data quality Specifically the book addresses Causes of bad data quality bad data quality impacts and importance of data quality to justify the case for data quality Butterfly effect of data quality A detailed description of data quality dimensions and their measurement Data quality strategy approach Six Sigma DMAIC approach to data quality Data quality management techniques Data quality in relation to data initiatives like data migration MDM data governance etc Data quality myths challenges and critical success factors Students academicians professionals and researchers can all use the content in this book to further their knowledge and get guidance on their own specific projects It balances technical details for example SQL statements relational database components data quality dimensions measurements and higher level qualitative discussions cost of data quality data quality strategy data quality maturity the case made for data quality and so on with case studies illustrations and real world examples throughout

Digital Twins, Simulation, and the Metaverse

Michael Grieves,Edward Y. Hua,2024-10-25 Dive into the fascinating world of Digital Twins Simulation and the Metaverse where the virtual digital and physical worlds collide and reshape industries This book offers an insightful exploration of the revolutionary applications of these technologies promising to ignite your imagination and inspire innovation The topics described in this book represent a groundbreaking exploration of the synergistic relationship between digital twins simulation and the metaverse as well as their transformative impact across various sectors In addition to presenting theoretical discussions and experimental findings this book focuses on real life applications and illuminates the path for future research This makes it a must read for both industry and academia keen on understanding and harnessing the power of the emerging technologies Topics and features Discover from top thought leaders the predictions of how digital twins simulation and metaverses will evolve in direction requirements and capabilities Exploit the understanding of how digital twin metaverses will revolutionize the effectiveness and efficiency of 21st century work Explore cutting edge real life applications of digital twins simulation and the metaverse spanning a diverse array of industries and sectors Understand the different views and perspectives of digital twins and metaverses shared by academia industry and government authors from around the world Learn how to harness the power of simulation in the world of digital twins and metaverses This unique volume consists of works from internationally renowned experts representing a diverse array of industries and sectors It will be eminently suitable for researchers and practitioners working on modeling and simulation digital twins and the metaverse

Furthermore this volume will serve as a valuable reference for executives and decision makers who are looking to leverage these cutting edge technologies to expand their businesses develop industrial and national strategies and support future missions

Big Data Intelligence for Smart Applications Youssef Baddi,Youssef Gahi,Yassine Maleh,Mamoun Alazab,Loai Tawalbeh,2022-01-18 Today the use of machine intelligence expert systems and analytical technologies combined with Big Data is the natural evolution of both disciplines As a result there is a pressing need for new and innovative algorithms to help us find effective and practical solutions for smart applications such as smart cities IoT healthcare and cybersecurity This book presents the latest advances in big data intelligence for smart applications It explores several problems and their solutions regarding computational intelligence and big data for smart applications It also discusses new models practical solutions and technological advances related to developing and transforming cities through machine intelligence and big data models and techniques This book is helpful for students and researchers as well as practitioners

Data-Driven Process Discovery and Analysis Philippe Cudré-Mauroux,Paolo Ceravolo,Dragan Gašević,2013-09-12 This book constitutes the thoroughly refereed proceedings of the Second International Symposium on Data Driven Process Discovery and Analysis held in Campione d Italia Italy in June 2012 The six revised full papers were carefully selected from 17 submissions To improve the quality of the contributions the symposium fostered the discussion during the presentation giving authors the opportunity to improve their work extending the presented results The selected papers cover topics spanning from theoretical issues related to process representation discovery and analysis to practical and operational experiences in process discovery and analysis

Data-Centric AI Solutions and Emerging Technologies in the Healthcare Ecosystem Alex Khang,Geeta Rana,R. K. Tailor,Vugar Abdullayev,2023-10-12 The book offers insight into the healthcare system by exploring emerging technologies and AI based applications and implementation strategies It includes current developments for future directions as well as covering the concept of the healthcare system along with its ecosystem Data Centric AI Solutions and Emerging Technologies in the Healthcare Ecosystem focuses on the mechanisms of proposing and incorporating solutions along with architectural concepts design principles smart solutions decision making process and intelligent predictions It offers state of the art approaches for overall innovations developments and implementation of the smart healthcare ecosystem and highlights medical signal and image processing algorithms healthcare based computer vision systems and discusses explainable AI XAI techniques for healthcare This book will be useful to researchers involved in AI IoT Data and emerging technologies in the medical industry It is also suitable as supporting material for undergraduate and graduate level courses in related engineering disciplines

Handbook of Research on Big Data Storage and Visualization Techniques Segall, Richard S.,Cook, Jeffrey S.,2018-01-05 The digital age has presented an exponential growth in the amount of data available to individuals looking to draw conclusions based on given or collected information across industries Challenges associated with the analysis security sharing storage and visualization of large and complex data sets continue to plague data

scientists and analysts alike as traditional data processing applications struggle to adequately manage big data The Handbook of Research on Big Data Storage and Visualization Techniques is a critical scholarly resource that explores big data analytics and technologies and their role in developing a broad understanding of issues pertaining to the use of big data in multidisciplinary fields Featuring coverage on a broad range of topics such as architecture patterns programming systems and computational energy this publication is geared towards professionals researchers and students seeking current research and application topics on the subject

Data - Value - Creation Fiona van Maanen, Ken van Ierlant, 2023-12-14 This book offers a vision and approach to formulate an answer to the many challenges from a holistic perspective and with data as the source for value development Both on a geopolitical and macro level but also on a corporate microlevel the digital transformation 4.0 as described in this book offers a clear manageable vision and approach to give our society and economy a new boost using data as the new source for value creation

Data Science for Healthcare Sergio Consoli, Diego Reforgiato Recupero, Milan Petković, 2019-02-23 This book seeks to promote the exploitation of data science in healthcare systems The focus is on advancing the automated analytical methods used to extract new knowledge from data for healthcare applications To do so the book draws on several interrelated disciplines including machine learning big data analytics statistics pattern recognition computer vision and Semantic Web technologies and focuses on their direct application to healthcare Building on three tutorial like chapters on data science in healthcare the following eleven chapters highlight success stories on the application of data science in healthcare where data science and artificial intelligence technologies have proven to be very promising This book is primarily intended for data scientists involved in the healthcare or medical sector By reading this book they will gain essential insights into the modern data science technologies needed to advance innovation for both healthcare businesses and patients A basic grasp of data science is recommended in order to fully benefit from this book

Advanced Information Systems Engineering Barbara Pernici, 2010-06-26 This book constitutes the proceedings of the 22nd International Conference on Advanced Information Systems Engineering CAiSE 2010 held in Hammamet Tunisia in June 2010 The 39 papers presented were carefully reviewed and selected from 299 submissions The topics covered are business process modeling information systems quality service modelling security management matching and mining case studies and experiences conceptual modelling adaptation requirements and process analysis In addition this volume contains two keynote papers and the abstract of a panel discussion

Artificial Intelligence for Business Optimization Bhuvan Unhelkar, Tad Gonsalves, 2021-08-09 This book explains how AI and Machine Learning can be applied to help businesses solve problems support critical thinking and ultimately create customer value and increase profit By considering business strategies business process modeling quality assurance cybersecurity governance and big data and focusing on functions processes and people's behaviors it helps businesses take a truly holistic approach to business optimization It contains practical examples that make it easy to understand the concepts and apply them It is written for practitioners consultants

senior executives decision makers dealing with real life business problems on a daily basis who are keen to develop systematic strategies for the application of AI ML BD technologies to business automation and optimization as well as researchers who want to explore the industrial applications of AI and higher level students

Handbook of Big Geospatial Data Martin Werner,Yao-Yi Chiang,2021-05-07 This handbook covers a wide range of topics related to the collection processing analysis and use of geospatial data in their various forms This handbook provides an overview of how spatial computing technologies for big data can be organized and implemented to solve real world problems Diverse subdomains ranging from indoor mapping and navigation over trajectory computing to earth observation from space are also present in this handbook It combines fundamental contributions focusing on spatio textual analysis uncertain databases and spatial statistics with application examples such as road network detection or colocation detection using GPUs In summary this handbook gives an essential introduction and overview of the rich field of spatial information science and big geospatial data It introduces three different perspectives which together define the field of big geospatial data a societal governmental and governance perspective It discusses questions of how the acquisition distribution and exploitation of big geospatial data must be organized both on the scale of companies and countries A second perspective is a theory oriented set of contributions on arbitrary spatial data with contributions introducing into the exciting field of spatial statistics or into uncertain databases A third perspective is taking a very practical perspective to big geospatial data ranging from chapters that describe how big geospatial data infrastructures can be implemented and how specific applications can be implemented on top of big geospatial data This would include for example research in historic map data road network extraction damage estimation from remote sensing imagery or the analysis of spatio textual collections and social media This multi disciplinary approach makes the book unique This handbook can be used as a reference for undergraduate students graduate students and researchers focused on big geospatial data Professionals can use this book as well as practitioners facing big collections of geospatial data

Economic Survey 2018-19 Ministry of Finance Government of India,2019-09-12 The Economic Survey is the budget document of the Government of India which is presented in parliament every year It presents the state of affairs of the Indian economy Economic Survey 2018 19 consists of two volumes which analyse the performance of the Indian economy for the financial year 2018 19

Electronic Government Hans Jochen Scholl,Olivier Glassey,Marijn Janssen,Bram Klievink,Ida Lindgren,Peter Parycek,Efthimios Tambouris,Maria A. Wimmer,Tomasz Janowski,Delfina Sá Soares,2016-08-13 This book constitutes the refereed proceedings of the 15th IFIP WG 8 5 International Conference on Electronic Government EGOV 2016 held in Guimaraes Portugal in September 2016 in conjunction with the 8th International Conference on eParticipation ePart 2016 The 24 revised full papers presented were carefully reviewed and selected from 87 submissions The papers are clustered under the following topical sections foundations benchmarking and evaluation information integration and governance services evaluation and public values EGOV success and failure governance social

media engagement processes policy making trust transparency and accountability open government and big open data smart government governance cities

Connecting the System to Enhance the Practitioner and Consumer Experience in Healthcare Elizabeth Cummings, Angela Ryan, Louise K. Schaper, 2018-08-15 Health informatics plays a central role in the digital transformation of the healthcare sector The integration and connection of health services practitioners and consumers is critical to the realisation of the improvements promised by digital health and the secondary use of health data has led to ground breaking research discoveries Increased reliance upon all types of digital media has also established health informatics as a viable specialisation in healthcare This book presents the proceedings of the 26th national Health Informatics Conference HIC 2018 Australia s premier health informatics event held in Sydney Australia in July August 2018 The conference provides an environment for clinicians researchers health IT professionals industry and consumers to integrate educate and share the knowledge which drives innovative thinking and this year s theme Today s best practice innovation today and preparing for tomorrow focuses on the important issues of connecting the system being smart with data and enhancing the practitioner and consumer experience in healthcare interactions The papers presented here reflect this theme highlighting cutting edge research evidence technology updates and innovations from the digital transformation of the healthcare sector Covering a wide spectrum of work and encompassing major theoretical concepts examples of key applications of new technologies and important new developments in the field of health informatics the book will be of interest to all those working in the healthcare sector

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