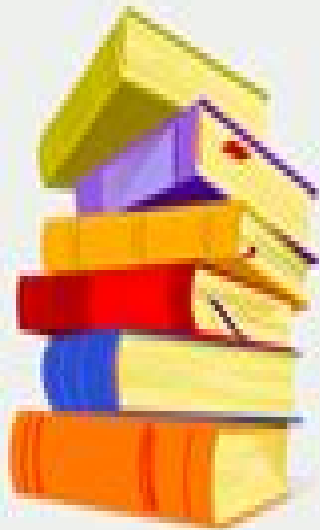


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Testing iOS Apps with HadoopUnit Scott Tilley, Krissada Dechokul, 2022-05-31 Smartphone users have come to expect high quality apps. This has increased the importance of software testing in mobile software development. Unfortunately testing apps, particularly the GUI, can be very time consuming. Exercising every user interface element and verifying transitions between different views of the app under test quickly becomes problematic. For example, execution of iOS GUI test suites using Apple's UI Automation framework can take an hour or more if the app's interface is complicated. The longer it takes to run a test, the less frequently the test can be run, which in turn reduces software quality. This book describes how to accelerate the testing process for iOS apps using HadoopUnit, a distributed test execution environment that leverages the parallelism inherent in the Hadoop platform. HadoopUnit was previously used to run unit and system tests in the cloud. It has been modified to perform GUI testing of iOS apps on a small scale cluster, a modest computing infrastructure available to almost every developer. Experimental results have shown that distributed test execution with HadoopUnit can significantly outperform the test execution on a single machine, even if the size of the cluster used for the execution is as small as two nodes. This means that the approach described in this book could be adopted without a huge investment in IT resources. HadoopUnit is a cost effective solution for reducing lengthy test execution times of system level GUI testing of iOS apps.

Information Technology - New Generations Shahram Latifi, 2017-07-15 This volume presents a collection of peer reviewed scientific articles from the 14th International Conference on Information Technology New Generations held at the University of Nevada at Las Vegas on April 10-12 at Tuscan Suites Hotel in Las Vegas. The Book of Chapters addresses critical areas of information technology including web technology, communications, computing architectures, software engineering, security, and data mining. *Management Information Systems Exam Prep*, Welcome to the forefront of knowledge with Cybellium, your trusted partner in mastering the cutting edge fields of IT: Artificial Intelligence, Cyber Security, Business, Economics, and Science. Designed for professionals, students, and enthusiasts alike, our comprehensive books empower you to stay ahead in a rapidly evolving digital world. Expert Insights: Our books provide deep, actionable insights that bridge the gap between theory and practical application. Up to Date Content: Stay current with the latest advancements, trends, and best practices in IT, AI, Cybersecurity, Business, Economics, and Science. Each guide is regularly updated to reflect the newest developments and challenges. Comprehensive Coverage: Whether you're a beginner or an advanced learner, Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise. Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey. www.cybellium.com **Cloud Tools 4 u** Rejo Mathew, 2018-03-26 **Cloud Tools For You** Rejo Mathew, Key Features: A comprehensive book which focuses mostly on open source software's available online. Serves as a handbook for academicians teaching Cloud. Compilation of cloud based tools or software used by students as well as industry.

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inspiration for researchers seeking to improve their work and gather new ideas for future developments **Information and Communication Technology for Development for Africa** Fisseha Mekuria, Ethiopia Nigussie, Tesfa Tegegne, 2019-08-01 This book constitutes the proceedings of the Second International Conference on Information and Communication Technology for Development for Africa ICT4DA 2019 held in Bahir Dar Ethiopia in May 2019 The 29 revised full papers presented were carefully reviewed and selected from 69 submissions The papers address the impact of ICT in fostering economic development in Africa In detail they cover the following topics artificial intelligence and data science wireless and mobile computing and Natural Language Processing Emerging Technologies in Data Mining and Information Security Ajith Abraham, Paramartha Dutta, Jyotsna Kumar Mandal, Abhishek Bhattacharya, Soumi Dutta, 2018-09-01 The book features research papers presented at the International Conference on Emerging Technologies in Data Mining and Information Security IEMIS 2018 held at the University of Engineering Management Kolkata India on February 23 25 2018 It comprises high quality research by academics and industrial experts in the field of computing and communication including full length papers research in progress papers case studies related to all the areas of data mining machine learning IoT and information security **Software Reuse for Dynamic Systems in the Cloud and Beyond** Ina Schaefer, Ioannis Stamelos, 2014-12-22 This book constitutes the refereed proceedings of the 14th International Conference on Software Reuse for Dynamic Systems in the Cloud and Beyond ICSR 2015 held in Miami FL USA in January 2015 The 21 revised full papers presented together with 3 revised short papers were carefully reviewed and selected from 60 submissions The papers cover several software engineering areas where software reuse is important such as software product lines domain analysis open source components cloud quality **Handbook of Research on Digital Research Methods and Architectural Tools in Urban Planning and Design** Abusaada, Hisham, Vellguth, Carsten, Elshater, Abeer, 2019-06-28 The efficient usage investigation and promotion of new methods tools and technologies within the field of architecture particularly in urban planning and design is becoming more critical as innovation holds the key to cities becoming smarter and ultimately more sustainable In response to this need strategies that can potentially yield more realistic results are continually being sought The Handbook of Research on Digital Research Methods and Architectural Tools in Urban Planning and Design is a critical reference source that comprehensively covers the concepts and processes of more than 20 new methods in both planning and design in the field of architecture and aims to explain the ways for researchers to apply these methods in their works Pairing innovative approaches alongside traditional research methods the physical dimensions of traditional and new cities are addressed in addition to the non physical aspects and applied models that are currently under development in new settlements such as sustainable cities smart cities creative cities and intercultural cities Featuring a wide range of topics such as built environment urban morphology and city information modeling this book is essential for researchers academicians professionals technology developers architects engineers and policymakers *Intelligent Data*

Analysis for e-Learning Jorge Miguel, Santi Caballé, Fatos Xhafa, 2016-09-06 Intelligent Data Analysis for e Learning Enhancing Security and Trustworthiness in Online Learning Systems addresses information security within e Learning based on trustworthiness assessment and prediction Over the past decade many learning management systems have appeared in the education market Security in these systems is essential for protecting against unfair and dishonest conduct most notably cheating however e Learning services are often designed and implemented without considering security requirements This book provides functional approaches of trustworthiness analysis modeling assessment and prediction for stronger security and support in online learning highlighting the security deficiencies found in most online collaborative learning systems The book explores trustworthiness methodologies based on collective intelligence than can overcome these deficiencies It examines trustworthiness analysis that utilizes the large amounts of data learning activities generate In addition as processing this data is costly the book offers a parallel processing paradigm that can support learning activities in real time The book discusses data visualization methods for managing e Learning providing the tools needed to analyze the data collected Using a case based approach the book concludes with models and methodologies for evaluating and validating security in e Learning systems Indexing The books of this series are submitted to EI Compindex and SCOPUS Provides guidelines for anomaly detection security analysis and trustworthiness of data processing Incorporates state of the art multidisciplinary research on online collaborative learning social networks information security learning management systems and trustworthiness prediction Proposes a parallel processing approach that decreases the cost of expensive data processing Offers strategies for ensuring against unfair and dishonest assessments Demonstrates solutions using a real life e Learning context

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Information Systems Marinou Themistocleous, Paulo Rupino da Cunha, 2019-01-11 This book constitutes selected papers from the 15th European Mediterranean and Middle Eastern Conference EMCIS 2018 held in Limassol Cyprus in October 2018 EMCIS is dedicated to the definition and establishment of Information Systems as a discipline of high impact for the methodical community and IS professionals focusing on approaches that facilitate the identification of innovative research of significant relevance to the IS discipline The 34 full and 8 short papers presented in this volume were carefully reviewed and selected from a total of 108

submissions They were organized in topical sections named blockchain technology and applications big data and analytics cloud computing digital services and social media e government healthcare information systems IT governance and management and organizational issues in information systems

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Ka-Chun Wong, 2016-04-27 The advances in biotechnology such as the next generation sequencing technologies are occurring at breathtaking speed Advances and breakthroughs give competitive advantages to those who are prepared However the driving force behind the positive competition is not only limited to the technological advancement but also to the companion data analy

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Technology John A. Bartle-Clar, Gerry Bliss, Elizabeth M. Borycki, Karen L. Courtney, Alex Mu-Hsing Kuo, Andre Kushniruk, 2019-03-15 Information technology is revolutionizing healthcare and the uptake of health information technologies is rising but scientific research and industrial and governmental support will be needed if these technologies are to be implemented effectively to build capacity at regional national and global levels This book Improving Usability Safety and Patient Outcomes with Health Information Technology presents papers from the Information Technology and Communications in Health conference ITCH 2019 held in Victoria Canada from 14 to 17 February 2019 The conference takes a multi perspective view of what is needed to move technology forward to sustained and widespread use by transitioning research findings and approaches into practice Topics range from improvements in usability and training and the need for new and improved designs for information systems user interfaces and interoperable solutions to governmental policy mandates initiatives and the need for regulation The knowledge and insights gained from the ITCH 2019 conference will surely stimulate fruitful discussions and collaboration to bridge research and practice and improve usability safety and patient outcomes and the book will be of interest to all those associated with the development implementation and delivery of

health IT solutions **Rapid Automation: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources, 2019-03-01 Through expanded intelligence the use of robotics has fundamentally transformed the business industry Providing successful techniques in robotic design allows for increased autonomous mobility which leads to a greater productivity and production level Rapid Automation Concepts Methodologies Tools and Applications provides innovative insights into the state of the art technologies in the design and development of robotics and their real world applications in business processes Highlighting a range of topics such as workflow automation tools human computer interaction and swarm robotics this multi volume book is ideally designed for computer engineers business managers robotic developers business and IT professionals academicians and researchers **Google Cloud Platform for Data Engineering** Alasdair Gilchrist, Google Cloud Platform for Data Engineering is designed to take the beginner through a journey to become a competent and certified GCP data engineer The book therefore is split into three parts the first part covers fundamental concepts of data engineering and data analysis from a platform and technology neutral perspective Reading part 1 will bring a beginner up to speed with the generic concepts terms and technologies we use in data engineering The second part which is a high level but comprehensive introduction to all the concepts components tools and services available to us within the Google Cloud Platform Completing this section will provide the beginner to GCP and data engineering with a solid foundation on the architecture and capabilities of the GCP Part 3 however is where we delve into the moderate to advanced techniques that data engineers need to know and be able to carry out By this time the raw beginner you started the journey at the beginning of part 1 will be a knowledgeable albeit inexperienced data engineer However by the conclusion of part 3 they will have gained the advanced knowledge of data engineering techniques and practices on the GCP to pass not only the certification exam but also most interviews and practical tests with confidence In short part 3 will provide the prospective data engineer with detailed knowledge on setting up and configuring DataProc GCPs version of the Spark Hadoop ecosystem for big data They will also learn how to build and test streaming and batch data pipelines using pub sub dataFlow and BigQuery Furthermore they will learn how to integrate all the ML and AI Platform components and APIs They will be accomplished in connecting data analysis and visualisation tools such as Datalab DataStudio and AI notebooks amongst others They will also by now know how to build and train a TensorFlow DNN using APIs and Keras and optimise it to run large public data sets Also they will know how to provision and use Kubeflow and Kube Pipelines within Google Kubernetes engines to run container workloads as well as how to take advantage of serverless technologies such as Cloud Run and Cloud Functions to build transparent and seamless data processing platforms The best part of the book though is its compartmental design which means that anyone from a beginner to an intermediate can join the book at whatever point they feel comfortable

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