
Data Mashups In R

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Data Mashups In R

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JULISSA LEONIDAS

A Case Studies Approach to Computational Reasoning and Problem Solving

"O'Reilly Media, Inc." Effectively Access, Transform, Manipulate, Visualize, and Reason about Data and Computation Data Science in R: A Case Studies Approach to Computational Reasoning and Problem Solving illustrates the details involved in solving real computational problems encountered in data analysis. It reveals the dynamic and iterative process by which data analysts approach a problem and reason about different ways of implementing solutions.

The book's collection of projects, comprehensive sample solutions, and follow-up exercises encompass practical topics pertaining to data processing, including: Non-standard, complex data formats, such as robot logs and email messages Text processing and regular expressions Newer technologies, such as Web scraping, Web services, Keyhole Markup Language (KML), and Google Earth Statistical methods, such as classification trees, k-nearest neighbors, and naïve Bayes Visualization and exploratory data analysis Relational databases and Structured Query Language (SQL) Simulation Algorithm implementation Large data and efficiency Suitable for self-study or as supplementary reading in a

statistical computing course, the book enables instructors to incorporate interesting problems into their courses so that students gain valuable experience and data science skills. Students learn how to acquire and work with unstructured or semistructured data as well as how to narrow down and carefully frame the questions of interest about the data. Blending computational details with statistical and data analysis concepts, this book provides readers with an understanding of how professional data scientists think about daily computational tasks. It will improve readers' computational reasoning of real-world data analyses.
Service-Oriented Computing - ICSOC

Workshops 2012 Information Today Incorporated

Welcome to the tenth anniversary of the International Conference on Web Information Systems Engineering, WISE 2009. This year the WISE conference continued the tradition that has evolved from the inaugural conference held in 2000 in Hong Kong and since then has made its journey around the world: 2001 Kyoto (Japan), 2002 Singapore, 2003 Rome (Italy), 2004 Brisbane (Australia), 2005 New York (USA), 2006 Wuhan (China), 2007 Nancy (France), and 2008 Auckland (New Zealand). This year we were happy to hold the event in Poznan, a city of 600,000 inhabitants in western Poland. Poznan is the capital of the most affluent province of the country – Wielkopolska – which means “Greater Poland”. For more than 1,000 years, Poznan’s geographical location has predestined the city to be a significant scientific, cultural and economic center with more than just regional influence. The city is situated on the strategic cross-roads from Paris and Berlin in the west, to Warsaw and Moscow in the east, and from Scandinavia through the Baltic Sea in the

north to the Balkans in the south. Poznan is a great research and university center with a dynamic potential. In all, 140,000 students are enrolled in 26 state-run and private institutions of higher education here, among which the Poznan University of Economics with its 12,000 students is one of the biggest. The WISE 2009 Conference provided a forum for engineers and scientists to present their latest findings in Web-related technologies and solutions.

Transactions on Large-Scale Data- and Knowledge-Centered Systems XXXI Springer

This collection represents the full spectrum of data-related content we’ve published on O’Reilly Radar over the last year. Mike Loukides kicked things off in June 2010 with “What is data science?” and from there we’ve pursued the various threads and themes that naturally emerged. Now, roughly a year later, we can look back over all we’ve covered and identify a number of core data areas: Data issues -- The opportunities and ambiguities of the data space are evident in discussions around privacy, the implications of data-centric industries, and

the debate about the phrase “data science” itself. The application of data: products and processes – A “data product” can emerge from virtually any domain, including everything from data startups to established enterprises to media/journalism to education and research. Data science and data tools -- The tools and technologies that drive data science are of course essential to this space, but the varied techniques being applied are also key to understanding the big data arena. The business of data – Take a closer look at the actions connected to data -- the finding, organizing, and analyzing that provide organizations of all sizes with the information they need to compete. *Data Science in R* Springer Science & Business Media
How do you use R to import, manage, visualize, and analyze real-world data? With this short, hands-on tutorial, you learn how to collect online data, massage it into a reasonable form, and work with it using R facilities to interact with web servers, parse HTML and XML, and more. Rather than use canned sample data, you'll plot and analyze current home

foreclosure auctions in Philadelphia. This practical mashup exercise shows you how to access spatial data in several formats locally and over the Web to produce a map of home foreclosures. It's an excellent way to explore how the R environment works with R packages and performs statistical analysis. Parse messy data from public foreclosure auction postings Plot the data using R's PBSmapping package Import US Census data to add context to foreclosure data Use R's lattice and latticeExtra packages for data visualization Create multidimensional correlation graphs with the pairs() scatterplot matrix package *Semantic Search over the Web* Bloomsbury Publishing USA

The Web has become the world's largest database, with search being the main tool that allows organizations and individuals to exploit its huge amount of information. Search on the Web has been traditionally based on textual and structural similarities, ignoring to a large degree the semantic dimension, i.e., understanding the meaning of the query and of the document content. Combining search and semantics gives birth to the idea of semantic search. Traditional search

engines have already advertised some semantic dimensions. Some of them, for instance, can enhance their generated result sets with documents that are semantically related to the query terms even though they may not include these terms. Nevertheless, the exploitation of the semantic search has not yet reached its full potential. In this book, Roberto De Virgilio, Francesco Guerra and Yannis Velegarakis present an extensive overview of the work done in Semantic Search and other related areas. They explore different technologies and solutions in depth, making their collection a valuable and stimulating reading for both academic and industrial researchers. The book is divided into three parts. The first introduces the readers to the basic notions of the Web of Data. It describes the different kinds of data that exist, their topology, and their storing and indexing techniques. The second part is dedicated to Web Search. It presents different types of search, like the exploratory or the path-oriented, alongside methods for their efficient and effective implementation. Other related topics included in this part are the use of uncertainty in query answering, the

exploitation of ontologies, and the use of semantics in mashup design and operation. The focus of the third part is on linked data, and more specifically, on applying ideas originating in recommender systems on linked data management, and on techniques for the efficiently querying answering on linked data.

ItAIS: The Italian Association for Information Systems Springer

Mashups are hugely popular right now, a very important topic within the general area of Web 2.0, involving technologies such as CSS, JavaScript, Ajax, APIs, libraries, and server-side languages (such as PHP and ASP.NET.) This book aims to be the definitive tome on Mashup development, to stand in the middle of all the other, more API specific books coming out on Google Maps, Flickr, etc. The book shows how to create real world Mashups using all the most popular APIs, such as Google Maps, Flickr, Amazon Web Services, and delicious, and includes examples in multiple different server-side languages, such as PHP, Java, and .NET. *Remixing Data and Web Services* Springer Science & Business Media

This two-volume set, LNAI 9651 and 9652,

constitutes the thoroughly refereed proceedings of the 20th Pacific-Asia Conference on Advances in Knowledge Discovery and Data Mining, PAKDD 2016, held in Auckland, New Zealand, in April 2016. The 91 full papers were carefully reviewed and selected from 307 submissions. They are organized in topical sections named: classification; machine learning; applications; novel methods and algorithms; opinion mining and sentiment analysis; clustering; feature extraction and pattern mining; graph and network data; spatiotemporal and image data; anomaly detection and clustering; novel models and algorithms; and text mining and recommender systems.

Concepts, Methodologies, Tools, and Applications CRC Press

We've all heard it: according to Hal Varian, statistics is the next sexy job. Five years ago, in *What is Web 2.0*, Tim O'Reilly said that "data is the next Intel Inside." But what does that statement mean? Why do we suddenly care about statistics and about data? This report examines the many sides of data science -- the technologies, the companies and the unique skill sets. The web is full of "data-

driven apps." Almost any e-commerce application is a data-driven application. There's a database behind a web front end, and middleware that talks to a number of other databases and data services (credit card processing companies, banks, and so on). But merely using data isn't really what we mean by "data science." A data application acquires its value from the data itself, and creates more data as a result. It's not just an application with data; it's a data product. Data science enables the creation of data products.

10th International Conference, ICWE 2010 Workshops, Vienna, Austria, July 5-6, 2010, Revised Selected Papers Springer Science & Business Media

Data Mashups in RA Case Study in Real-World Data Analysis"O'Reilly Media, Inc." Web 2.0: Concepts and Applications IGI Global

This book constitutes the refereed proceedings of the 28th IFIP TC 11 International Information Security and Privacy Conference, SEC 2013, held in Auckland, New Zealand, in July 2013. The 31 revised full papers presented were carefully reviewed and selected from 83

submissions. The papers are organized in topical sections on malware, authentication and authorization, network security/cryptography, software security, policy compliance and obligations, privacy protection, risk analysis and security metrics, social engineering, and security management/forensics.

What Is Data Science? *Data Mashups in RA Case Study in Real-World Data Analysis* This report improves the evidence base on the role of Data Driven Innovation for promoting growth and well-being, and provide policy guidance on how to maximise the benefits of DDI and mitigate the associated economic and societal risks.

Security and Privacy Protection in Information Processing Systems Springer

Mashups are mostly lightweight Web applications that offer new functionalities by combining, aggregating and transforming resources and services available on the Web. Popular examples include a map in their main offer, for instance for real estate, hotel recommendations, or navigation tools. Mashups may contain and mix client-side

and server-side activity. Obviously, understanding the incoming resources (services, statistical figures, text, videos, etc.) is a precondition for optimally combining them, so that there is always some undercover semantics being used. By using semantic annotations, neutral mashups permute into the branded type of semantic mashups. Further and deeper semantic processing such as reasoning is the next step. The chapters of this book reflect the diversity of real-life semantic mashups. Two overview chapters take the reader to the environments where mashups are at home and review the regulations (standards, guidelines etc.) mashups are based on and confronted with. Chapters focusing on DBpedia, search engines and the Web of Things inspect the main Web surroundings of mashups. While mashups upgrading search queries may be nearer to the everyday experience of readers, mashups using DBpedia input and sensor data from the real world lead to important new and therefore less known developments. Finally, the diversity of mashups is tracked through a few application areas: mathematical knowledge, speech, crisis

and disaster management, recommendations (for games), inner-city information, and tourism. Participants of the AI Mashup Challenge wrote all the chapters of this book. The authors were writing for their current and future colleagues - researchers and developers all over the Web who integrate mashup functionalities into their thinking and possibly into their applications. *Concepts, Methodologies, Tools, and Applications Apress*

The use of technology and teaching techniques derived from technology is currently a burgeoning topic in higher education. Teachers at all levels and types of institutions want to know how these new technologies will affect what happens in and outside of the classroom. Many teachers have already embraced some of these technologies but remain uncertain about their educational efficacy. Other teachers have waited because they are reluctant to try tools or techniques that remain unproven or, as is often the case, lack institutional support. This book is designed to help both groups, so that those with technological expertise can extend their knowledge, while

technological novices can "ramp up" at their own pace and for their own purposes. Best Practices for Technology-Enhanced Teaching and Learning brings together expert teacher-scholars who apply and assess technology's impact on traditional, hybrid or blended, or completely on-line courses, relying on technology as a teaching tool for classroom management and interaction (e.g., Blackboard, PowerPoint, student response or "clicker systems," multimedia tools), as well as student-based uses of technology largely independent of instructors (e.g., social networking on popular sites including Facebook and MySpace). Each chapter will address how technological improvements can be connected to assessment initiatives, as is now routinely advocated in psychology and social science education. The book features current scholarship and pedagogy involving innovative technology that impacts on student learning in psychology and related disciplines, focusing also on student reactions to these novel technologies, and proper assessments of how well they promote learning. This text will serve as the standard reference on emerging

technologies for undergraduate instructors.

Web Engineering "O'Reilly Media, Inc."

This book constitutes the thoroughly refereed proceedings of the 2012 ICSOC Workshops consisting of 6 scientific satellite events, organized in 3 main tracks including workshop track (ASC, DISA, PAASC, SCEB, SeMaPS and WESOA 2012), PhD symposium track, demonstration track; held in conjunction with the 10th International Conference on Service-Oriented Computing (ICSOC), in Shanghai, China, November 2012. The 53 revised papers presents a wide range of topics that fall into the general area of service computing such as business process management, distributed systems, computer networks, wireless and mobile computing, grid computing, networking, service science, management science, and software engineering.

Web Information Systems Engineering -

WISE 2009 Oxford University Press

This book constitutes the refereed proceedings of the 15th International Conference on Web Engineering, ICWE 2015, held in Rotterdam, The Netherlands, in June 2015. The 26 full research papers,

11 short papers, 7 industry papers, 11 demonstrations, 6 posters and 4 contributions to the PhD symposium presented were carefully reviewed and selected from 100 submissions. Moreover 2 tutorials are presented. The papers focus on eight tracks, namely Web application modeling and engineering; mobile Web applications; social Web applications; semantic Web applications; quality and accessibility aspects of Web applications; Web applications composition and mashups; Web user interfaces; security and privacy in Web applications.

First International Workshop, MBSDI 2008, Berlin, Germany, April 1-3, 2008, Proceedings Cengage Learning

"This unique book is geared to help any library keep its website dynamically and collaboratively up-to-date, increase user participation, and provide exemplary web-based service through the power of mashups."--Back cover.

Exploring Pleasure, Paradox and Pain in Computing Springer

This book features the outcomes of the 16th International Conference on Distributed Computing and Artificial Intelligence 2019 (DCAI 2019), which is a

forum to present applications of innovative techniques for studying and solving complex problems in artificial intelligence and computing. The exchange of ideas between scientists and technicians from both the academic and industrial sectors is essential to facilitate the development of systems that can meet the ever-increasing demands of today's society. This book brings together lessons learned, current work and promising future trends associated with distributed computing, artificial intelligence and their application to provide efficient solutions to real-world problems. The book includes 29 high-quality and diverse contributions in established and emerging areas of research presented at the symposium organized by the Osaka Institute of Technology, Hiroshima University, University of Granada and University of Salamanca, which was held in Ávila, Spain, from 26th–28th June 2019

Web-Based Services: Concepts, Methodologies, Tools, and Applications IGI Global

Open government initiatives have become a defining goal for public administrators around the world. As technology and social

media tools become more integrated into society, they provide important frameworks for online government and community collaboration. However, progress is still necessary to create a method of evaluation for online governing systems for effective political management worldwide. *Open Government: Concepts, Methodologies, Tools, and Applications* is a vital reference source that explores the use of open government initiatives and systems in the executive, legislative, and judiciary sectors. It also examines the use of technology in creating a more affordable, participatory, and transparent public-sector management models for greater citizen and community involvement in public affairs. Highlighting a range of topics such as data transparency, collaborative governance, and bureaucratic secrecy, this multi-volume book is ideally designed for government

officials, leaders, practitioners, policymakers, researchers, and academicians seeking current research on open government initiatives. *Handbook of Research on E-Business Standards and Protocols: Documents, Data and Advanced Web Technologies* Springer This book constitutes the thoroughly refereed post-proceedings of the satellite events of the 10th International Conference on the Semantic Web, ESWC 2013, held in Montpellier, France, in May 2013. The volume contains 44 papers describing the posters and demonstrations, 10 best workshop papers selected from various submissions and four papers of the AI Mashup Challenge. The papers cover various aspects on the Semantic Web.

Open Government: Concepts, Methodologies, Tools, and Applications IGI Global

The book examines a wide range of issues

that characterize the current IT based innovation trends in organisations. It contains a collection of research papers focusing on themes of growing interest in the field of Information System, Organization Studies, and Management. The book offers a multi-disciplinary view on Information Systems aiming to disseminate academic knowledge. It might be particularly relevant to IT practitioners such as information systems managers, business managers and IT consultants. The volume is divided into XIV sections, each one focusing on a specific theme. A preface written by Joey George, president of the Association for Information Systems opens the text. The content of each section is based on a selection of the best papers (original double blind peer reviewed contributions) presented at the annual conference of the Italian chapter of AIS, which has been held in Naples, Italy, on October 2010.