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Lucene

IN ACTION

SECOND EDITION

Michael McCandless
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 MANNING



Lucene In Action

Emmanuel Bernard, John Griffin



Lucene In Action:

Lucene in Action Otis Gospodnetić, Erik Hatcher, Michael McCandless, 2010-07-08 When Lucene first hit the scene five years ago it was nothing short of amazing. By using this open source highly scalable super fast search engine developers could integrate search into applications quickly and efficiently. A lot has changed since then search has grown from a nice to have feature into an indispensable part of most enterprise applications. Lucene now powers search in diverse companies including Akamai, Netflix, LinkedIn, Technorati, HotJobs, Epiphany, FedEx, Mayo Clinic, MIT, New Scientist Magazine and many others. Some things remain the same though Lucene still delivers high performance search features in a disarmingly easy to use API. Due to its vibrant and diverse open source community of developers and users Lucene is relentlessly improving with evolutions to APIs, significant new features such as payloads and a huge increase as much as 8x in indexing speed with Lucene 2.3. And with clear writing, reusable examples and unmatched advice on best practices, Lucene in Action Second Edition is still the definitive guide to developing with Lucene. Purchase of the print book comes with an offer of a free PDF, ePub and Kindle eBook from Manning. Also available is all code from the book. [Lucene in Action](#) Michael McCandless, Otis Gospodnetić, Erik Hatcher, 2010

Mahout in Action Sean Owen, B. Ellen Friedman, Robin Anil, Ted Dunning, 2011-10-04 Summary Mahout in Action is a hands on introduction to machine learning with Apache Mahout. Following real world examples the book presents practical use cases and then illustrates how Mahout can be applied to solve them. Includes a free audio and video enhanced eBook. About the Technology A computer system that learns and adapts as it collects data can be really powerful. Mahout, Apache's open source machine learning project, captures the core algorithms of recommendation systems, classification and clustering in ready to use, scalable libraries. With Mahout you can immediately apply to your own projects the machine learning techniques that drive Amazon, Netflix and others. About this Book This book covers machine learning using Apache Mahout. Based on experience with real world applications it introduces practical use cases and illustrates how Mahout can be applied to solve them. It places particular focus on issues of scalability and how to apply these techniques against large data sets using the Apache Hadoop framework. This book is written for developers familiar with Java; no prior experience with Mahout is assumed. Owners of a Manning paperback purchased anywhere in the world can download a free eBook from [manning.com](#) at any time. They can do so multiple times and in any or all formats available: PDF, ePub or Kindle. To do so customers must register their printed copy on Manning's site by creating a user account and then following instructions printed on the paperback registration insert at the front of the book.

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Taking clustering to production Real world applications of clustering PART 3 CLASSIFICATION Introduction to classification Training a classifier Evaluating and tuning a classifier Deploying a classifier Case study Shop It To Me *Deep Learning for Search* Tommaso Teofili, 2019-06-02 Summary Deep Learning for Search teaches you how to improve the effectiveness of your search by implementing neural network based techniques By the time you're finished with the book you'll be ready to build amazing search engines that deliver the results your users need and that get better as time goes on Foreword by Chris Mattmann Purchase of the print book includes a free eBook in PDF Kindle and ePub formats from Manning Publications About the Technology Deep learning handles the toughest search challenges including imprecise search terms badly indexed data and retrieving images with minimal metadata And with modern tools like DL4J and TensorFlow you can apply powerful DL techniques without a deep background in data science or natural language processing NLP This book will show you how About the Book Deep Learning for Search teaches you to improve your search results with neural networks You'll review how DL relates to search basics like indexing and ranking Then you'll walk through in depth examples to upgrade your search with DL techniques using Apache Lucene and Deeplearning4j As the book progresses you'll explore advanced topics like searching through images translating user queries and designing search engines that improve as they learn What's inside Accurate and relevant rankings Searching across languages Content based image search Search with recommendations About the Reader For developers comfortable with Java or a similar language and search basics No experience with deep learning or NLP needed About the Author Tommaso Teofili is a software engineer with a passion for open source and machine learning As a member of the Apache Software Foundation he contributes to a number of open source projects ranging from topics like information retrieval such as Lucene and Solr to natural language processing and machine translation including OpenNLP Joshua and UIMA He currently works at Adobe developing search and indexing infrastructure components and researching the areas of natural language processing information retrieval and deep learning He has presented search and machine learning talks at conferences including Berlin Buzzwords International Conference on Computational Science ApacheCon EclipseCon and others You can find him on Twitter at tteofili Table of Contents PART 1 SEARCH MEETS DEEP LEARNING Neural search Generating synonyms PART 2 THROWING NEURAL NETS AT A SEARCH ENGINE From plain retrieval to text generation More sensitive query suggestions Ranking search results with word embeddings Document embeddings for rankings and recommendations PART 3 ONE STEP BEYOND Searching across languages Content based image search A peek at performance *Hibernate Search in Action* Emmanuel Bernard, John Griffin, 2008-12-20 Enterprise and web applications require full featured Google quality search capabilities but such features are notoriously difficult to implement and maintain Hibernate Search builds on the Lucene feature set and offers an easy to implement interface that integrates seamlessly with Hibernate the leading data persistence solution for Java applications Hibernate Search in Action introduces both the principles of enterprise search and the implementation details a Java

developer will need to use HibernateSearch effectively This book blends the insights of the Hibernate Search lead developer with the practical techniques required to index and manipulate data assemble and execute search queries and create smart filters for better search results Along the way the reader masters performance boosting concepts like using Hibernate Search in a clustered environment and integrating with the features already in your applications This book assumes you're a competent Java developer with some experience using Hibernate and Lucene Purchase of the print book comes with an offer of a free PDF ePub and Kindle eBook from Manning Also available is all code from the book *Crosswalking* Bas Peters, 2007-01-01 This concise book is for library programmers who want to learn to use MARC4J to process bibliographic data MARC4J is an open source software library for working with MARC MARXML and related bibliographic standards in Java The library is designed to bridge the gap between MARC and XML Crosswalking provides useful information for both developers learning about MARC4J for the first time and developers returning for reference and more advanced material The chapters provide many reusable examples while appendixes provide a reference to the API and the command line utilities

Professional DNN7 Shaun Walker, Bruce Chapman, Cathal Connolly, Peter Donker, Israel Martinez, Charles Nurse, Chris Pattera, Clinton Bland, Ashish Prasad, Nathan Rover, Mitchel Sellers, Dennis Shiao, Will Strohl, Erik van Ballegoij, Scott Willhite, Ralph Williams, Jr., 2015-05-13 A variety of positive change has recently taken place in the DNN ecosystem code base and underlying technology Professional DNN7 Open Source NET CMS Platform provides thorough coverage of all aspects of DNN including the latest features API's and updates Looking to ramp up your knowledge of DNN7 If so this book is for you In this book you'll learn how to install configure administer develop modules and much more DNN has undergone a significant transformation over the past 4 years The rebrand from DotNetNuke to DNN was just the start The entire platform was migrated from VB to C the user interface was overhauled providing a much improved user experience dramatic improvements in functionality performance were made including support for social collaboration and mobile devices Recently API's that make modern client side development easy have been introduced as well The underlying technology platform has migrated from ASP.NET 2.0 to ASP.NET 4.0 and DNN has also integrated Microsoft's Web API as the service framework at the core of the DNN solution All of these enhancements provide developers with a lot of power in one solution In previous Professional DotNetNuke books DotNetNuke founder Shaun Walker authored a popular introductory chapter covering the evolution of the DNN open source project He will expand this initial chapter with information about venture capital funding commercialization and software business insights which will be of interest to DNN enthusiasts as well as technology entrepreneurs DNN site builders administrators and developers will learn how to determine if they have met the installation requirements and install DNN administer and host a DNN site and install and configure modules manage users and keep a DNN installation secure localize a DNN site for multiple languages build custom DNN modules in C using the model of separation of database business logic and presentation layers customize the DNN look with skinning make their site social

with EVOQ *Elasticsearch* Florian Hopf, 2016-01-08 Elasticsearch ist ein auf Apache Lucene basierender Suchserver der JSON Dokumente speichern und durchsuchen kann. Durch den verteilten Aufbau ist die Ablage sehr großer Datenmengen möglich. Neben Volltextinhalten können auch strukturierte Daten verwaltet und mit Aggregationen leicht gruppiert und ausgelesen werden. Dokumente, Suchanfragen und administrative Aufgaben werden in JSON formuliert und per HTTP oder über die Java API ausgetauscht. Das Buch stellt anhand eines durchgehenden Beispiels die Nutzung von Elasticsearch vor. Nach einem einführenden Kapitel in dem eine klassische Suchanwendung von Grund auf aufgebaut wird, werden in den anschließenden Kapiteln jeweils unterschiedliche Aspekte genauer beleuchtet. Unter anderem werden die folgenden Themenbereiche angesprochen: Umgang mit Text-Relevanz in Suchergebnissen, Möglichkeiten der Indizierung, Verteilung der Daten, Datenmodellierung, Aggregationen, Aspekte des Produktivbetriebs, Logdaten in Elasticsearch. Der Großteil des Buches ist unabhängig von der Programmiersprache gehalten; es wird jedoch auch auf die Java- und JavaScript-APIs zum Zugriff auf Elasticsearch eingegangen. Der Leser hat nach der Lektüre das notwendige Rüstzeug, um eigene Anwendungen auf Basis von Elasticsearch umzusetzen.

Visual Information Retrieval Using Java and LIRE Mathias Lux, Oge Marques, 2022-05-31 Visual information retrieval (VIR) is an active and vibrant research area which attempts at providing means for organizing, indexing, annotating and retrieving visual information (images and videos) from large unstructured repositories. The goal of VIR is to retrieve matches ranked by their relevance to a given query which is often expressed as an example image and/or a series of keywords. During its early years (1995–2000) the research efforts were dominated by content-based approaches contributed primarily by the image and video processing community. During the past decade it was widely recognized that the challenges imposed by the lack of coincidence between an image's visual contents and its semantic interpretation (also known as semantic gap) required a clever use of textual metadata in addition to information extracted from the image's pixel contents to make image and video retrieval solutions efficient and effective. The need to bridge or at least narrow the semantic gap has been one of the driving forces behind current VIR research. Additionally, other related research problems and market opportunities have started to emerge, offering a broad range of exciting problems for computer scientists and engineers to work on. In this introductory book we focus on a subset of VIR problems where the media consists of images and the indexing and retrieval methods are based on the pixel contents of those images, an approach known as content-based image retrieval (CBIR). We present an implementation-oriented overview of CBIR concepts, techniques, algorithms and figures of merit. Most chapters are supported by examples written in Java using Lucene, an open-source Java-based indexing and search implementation, and LIRE (Lucene Image REtrieval), an open-source Java-based library for CBIR.

Table of Contents: Introduction, Information Retrieval, Selected Concepts and Techniques, Visual Features, Indexing Visual Features, LIRE: An Extensible Java CBIR Library, Concluding Remarks.

Big Data Management And Analytics Brij B Gupta, Mamta, 2023-12-05 With the proliferation of information, big data management and analysis have become an indispensable part of any system to handle

such amounts of data The amount of data generated by the multitude of interconnected devices increases exponentially making the storage and processing of these data a real challenge Big data management and analytics have gained momentum in almost every industry ranging from finance or healthcare Big data can reveal key insights if handled and analyzed properly it has great application potential to improve the working of any industry This book covers the spectrum aspects of big data from the preliminary level to specific case studies It will help readers gain knowledge of the big data landscape Highlights of the topics covered include description of the Big Data ecosystem real world instances of big data issues how the Vs of Big Data volume velocity variety veracity valence and value affect data collection monitoring storage analysis and reporting structural process to get value out of Big Data and recognize the differences between a standard database management system and a big data management system Readers will gain insights into choice of data models data extraction data integration to solve large data problems data modelling using machine learning techniques Spark s scalable machine learning techniques modeling a big data problem into a graph database and performing scalable analytical operations over the graph and different tools and techniques for processing big data and its applications including in healthcare and finance

Information Computing and Applications Chunfeng Liu, Leizhen Wang, Aimin Yang, 2012-09-07 This two volume set of CCIS 307 and CCIS 308 constitutes the refereed proceedings of the Third International Conference on Information Computing and Applications ICICA 2012 held in Chengde China in September 2012 The 330 revised full papers presented in both volumes were carefully reviewed and selected from 1089 submissions The papers are organized in topical sections on internet computing and applications multimedia networking and computing intelligent computing and applications computational statistics and applications knowledge management and applications communication technology and applications information management system control engineering and applications business intelligence and applications cloud and evolutionary computing computational genomics and proteomics engineering management and applications

User Innovation and the Entrepreneurship Phenomenon in the Digital Economy Isaias, Pedro, Carvalho, Luísa Cagica, 2017-10-31 The digital economy is a main driver of change innovation and competitiveness for various companies and entrepreneurs Exploring developments in these initiatives can be used as vital tools for future business success User Innovation and the Entrepreneurship Phenomenon in the Digital Economy is an essential reference source for emerging scholarly research on innovative aspects of design development and implementation of digital economy initiatives highlighting the relationship and interaction between humans and technology in modern society Featuring coverage on a broad range of topics such as electronic commerce brand promotion and customer loyalty this book is ideally designed for academicians researchers students and managers seeking current research on the digital economy

Multilingual

Information Access Evaluation I - Text Retrieval Experiments Carol Peters, Giorgio Maria Di Nunzio, Mikko Kurimo, Thomas Mandl, Djamel Mostefa, Anselmo Penas, Giovanna Roda, 2010-09-13 This book constitutes the thoroughly

refereed proceedings of the 10th Workshop of the Cross Language Evaluation Forum CLEF 2010 held in Corfu Greece in September October 2009 The volume reports experiments on various types of textual document collections It is divided into six main sections presenting the results of the following tracks Multilingual Document Retrieval Ad Hoc Multiple Language Question Answering QA CLEF Multilingual Information Filtering INFILE CLEF Intellectual Property CLEF IP and Log File Analysis LogCLEF plus the activities of the MorphoChallenge Program

Progress in Artificial Intelligence Goreti Marreiros, Francisco S. Melo, Nuno Lau, Henrique Lopes Cardoso, Luís Paulo Reis, 2021-09-07 This book constitutes the refereed proceedings of the 20th EPIA Conference on Artificial Intelligence EPIA 2021 held virtually in September 2021 The 62 full papers and 6 short papers presented were carefully reviewed and selected from a total of 108 submissions The papers are organized in the following topical sections artificial intelligence and IoT in agriculture artificial intelligence and law artificial intelligence in medicine artificial intelligence in power and energy systems artificial intelligence in transportation systems artificial life and evolutionary algorithms ambient intelligence and affective environments general AI intelligent robotics knowledge discovery and business intelligence multi agent systems theory and applications and text mining and applications

Discovery of Geospatial Resources: Methodologies, Technologies, and Emergent Applications Díaz, Laura, Granell, Carlos, Huerta, Joaquín, 2012-04-30 This book provides relevant theoretical frameworks and the latest empirical research finding to improve understanding of geospatial discovery methodologies and technologies as well as techniques to design and deploy geospatial resources in Information Infrastructures Provided by publisher

Theory, Methodology, Tools and Applications for Modeling and Simulation of Complex Systems Lin Zhang, Xiao Song, Yunjie Wu, 2016-09-21 This four volume set CCIS 643 644 645 646 constitutes the refereed proceedings of the 16th Asia Simulation Conference and the First Autumn Simulation Multi Conference AsiaSim SCS AutumnSim 2016 held in Beijing China in October 2016 The 265 revised full papers presented were carefully reviewed and selected from 651 submissions The papers in this third volume of the set are organized in topical sections on Cloud technologies in simulation applications fractional calculus with applications and simulations modeling and simulation for energy environment and climate SBA virtual prototyping engineering technology simulation and Big Data

Guide to Cloud Computing Richard Hill, Laurie Hirsch, Peter Lake, Siavash Moshiri, 2012-11-28 This book describes the landscape of cloud computing from first principles leading the reader step by step through the process of building and configuring a cloud environment The book not only considers the technologies for designing and creating cloud computing platforms but also the business models and frameworks in real world implementation of cloud platforms Emphasis is placed on learning by doing and readers are encouraged to experiment with a range of different tools and approaches Topics and features includes review questions hands on exercises study activities and discussion topics throughout the text demonstrates the approaches used to build cloud computing infrastructures reviews the social economic and political aspects of the on going growth in cloud computing

use discusses legal and security concerns in cloud computing examines techniques for the appraisal of financial investment into cloud computing identifies areas for further research within this rapidly moving field

Knowledge Discovery, Knowledge Engineering and Knowledge Management Ana Fred, Jan L.G. Dietz, David Aveiro, Kecheng Liu, Joaquim Filipe, 2017-01-21 This book constitutes the thoroughly refereed proceedings of the 7th International Joint Conference on Knowledge Discovery Knowledge Engineering and Knowledge Management IC3K 2015 held in Lisbon Portugal in November 2015 The 25 full papers presented together with 2 invited papers were carefully reviewed and selected from 280 submissions The papers are organized in topical sections on knowledge discovery and information retrieval knowledge engineering and ontology development and knowledge management and information sharing

Managing and Processing Big Data in Cloud Computing Kannan, Rajkumar, 2016-01-07 Big data has presented a number of opportunities across industries With these opportunities come a number of challenges associated with handling analyzing and storing large data sets One solution to this challenge is cloud computing which supports a massive storage and computation facility in order to accommodate big data processing Managing and Processing Big Data in Cloud Computing explores the challenges of supporting big data processing and cloud based platforms as a proposed solution Emphasizing a number of crucial topics such as data analytics wireless networks mobile clouds and machine learning this publication meets the research needs of data analysts IT professionals researchers graduate students and educators in the areas of data science computer programming and IT development

Proceedings of the 2012 International Conference on Communication, Electronics and Automation Engineering George Yang, 2012-08-14 This book is a collection of selected papers from the 2011 International Conference on Communications Electronics and Automation Engineering hold in Xi an China August 23 25 2012 It presents some of the latest research findings in a broad range of interdisciplinary fields related to communications electronics and automation engineering Specific emphasis is placed on the following topics automation control data mining and statistics simulation and mathematical modeling human factors and cognitive engineering web technology optimization and algorithm and network communications The prime objective of the book is to familiarize the readers with cutting edge developments in the research of electronics and automation engineering with a variety of applications Hopefully the book can help researchers to identify research trends in many areas to learn the new methods and tools and to spark innovative ideas

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web in cryptology the discipline concerned with the study of cryptographic algorithms a cipher is an algorithm for encrypting and decrypting data symmetric key encryption also called secret key encryption depends on the use of ciphers which operate symmetrically with symmetric encryption algorithms the same encryption key is applied to data

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web apr 11 2023 the table contains 26 alphabets written in different rows each alphabet is cyclically shifted to the left

according to the previous alphabet equivalent to the 26 possible caesar ciphers the cipher uses a different alphabet from one of the rows at various points in the encryption process

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web transposition ciphers substitution ciphers playfair ciphers vigenère ciphers vernam vigenère ciphers product ciphers key cryptosystems single key cryptography two key cryptography public key cryptography secret sharing rsa

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web modern encryption methods can be divided by two criteria by type of key used and by type of input data by type of key used ciphers are divided into symmetric key algorithms private key cryptography where one same key is used for encryption and decryption and

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web shift ciphers work by using the modulo operator to encrypt and decrypt messages the shift cipher has a key k which is an integer from 0 to 25 we will only share this key with people that we want to see our message

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web each letter is substituted by another letter in the alphabet if it contains word boundaries spaces and punctuation it is called an aristocrat the more difficult variant without word boundaries is called a patristocrat monoalphabetic substitution cipher tool

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web in contrast to modern cryptographic algorithms most classical ciphers can be practically computed and solved by hand however they are also usually very simple to break with modern technology the term includes the simple systems used since greek and roman times the elaborate renaissance ciphers world war ii cryptography such as

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system dfd levels 0 and 1 next to that is level 2 it is considered as the highest dfd abstraction because it completes the details needed for student grading system student grading management system dfd level 2

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web when studying a business process or system that involves the transfer of data it is common to use a data flow diagram dfd to visualize how that data is processed while initially used exclusively in regards to the flow of data through a computer system dfds are now employed as a business modelling tool describing business events and

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web aug 20 2022 the school management system data flow diagram is made up of dfd levels 0 1 and 2 it also makes use of entities processes and data to define the entire system dfd for school management system details the table provides an overview and details about the dfd school management system data flow diagram

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web the context level data flow diagram dfd is describe the whole system it shows the all user module who operate the system the student attendance management system data flow diagram shows there are three users to run the system admin staff and student student attendance management system context level data flow diagram

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