1. Record Nr. UNINA9911006788503321

Autore	Rochester Eric
Titolo	Clojure data analysis cookbook / / Eric Rochester
Pubbl/distr/stampa	Birmingham, UK, : Packt Pub., c2013
ISBN	1-68015-416-8 1-299-44085-1 1-78216-265-8
Edizione	[1st edition]
Descrizione fisica	1 online resource (342 p.)
Disciplina	005.133
Soggetti	Database searching Clojure (Computer program language)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Cover; Copyright; Credits; About the Author; About the Reviewers; www.PacktPub.com; Table of Contents; Preface; Chapter 1: Importing Data for Analysis; Introduction; Creating a new project; Reading CSV data into Incanter datasets; Reading JSON data into Incanter datasets; Reading data from Excel with Incanter; Reading data from JDBC databases; Reading XML data into Incanter datasets; Scraping data from tables in web pages; Scraping textual data from web pages; Reading RDF data; Reading RDF data with SPARQL; Aggregating data from different formats; Chapter 2: Cleaning and Validating Data IntroductionCleaning data with regular expressions; Maintaining consistency with synonym maps; Identifying and removing duplicate data; Normalizing numbers; Rescaling values; Normalizing dates and times; Lazily processing very large data sets; Sampling from very large data sets; Fixing spelling errors; Parsing custom data formats; Validating data with Valip; Chapter 3: Managing Complexity with Concurrent Programming; Introduction; Managing program complexity with STM; Managing program complexity with agents; Getting better performance with commute; Combining agents and STM Maintaining consistency with ensureIntroducing safe side effects into the STM; Maintaining data consistency with validators; Tracking processing with watchers; Debugging concurrent programs with

watchers; Recovering from errors in agents; Managing input with sized queues; Chapter 4: Improving Performance with Parallel Programming; Introduction; Parallelizing processing with pmap; Parallelizing processing with Incanter; Partitioning Monte Carlo simulations for better pmap performance; Finding the optimal partition size with simulated annealing; Parallelizing with reducers
Generating online summary statistics with reducersHarnessing your GPU with OpenCL and Calx; Using type hints; Benchmarking with Criterium; Chapter 5: Distributed Data Processing with Cascalog; Introduction; Distributed processing with Cascalog and Hadoop; Querying data with Cascalog; Distributing data with Apache HDFS; Parsing CSV files with Cascalog; Complex queries with Cascalog; Aggregating data with Cascalog; Defining new Cascalog operators; Composing Cascalog queries; Handling errors in Cascalog workflows; Transforming data with Cascalog
Executing Cascalog queries in the Cloud with PalletChapter 6: Working with Incanter Datasets; Introduction; Loading Incanter's sample datasets; Loading Clojure data structures into datasets; Viewing datasets interactively with view; Converting datasets to matrices; Using infix formulas in Incanter; Selecting columns with ; Selecting rows with ; Filtering datasets with where; Grouping data with group-by; Saving datasets to CSV and JSON; Projecting from multiple datasets with join; Chapter 7: Preparing for and Performing Statistical Data Analysis with Incanter; Introduction
Generating summary statistics with rollup

Sommario/riassunto

Full of practical tips, the ""Clojure Data Analysis Cookbook"" will help you fully utilize your data through a series of step-by-step, real world recipes covering every aspect of data analysis.Prior experience with Clojure and data analysis techniques and workflows will be beneficial, but not essential.

2. Record Nr. UNINA9910136389603321

Autore	Anthony S. Leicht
Titolo	The Role of Physical Fitness on Cardiovascular Responses to Stress
Pubbl/distr/stampa	Frontiers Media SA, 2015
Descrizione fisica	1 online resource (95 p.)
Collana	Frontiers Research Topics
Soggetti	Physiology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Cardiovascular responses to physical and/ or mental stressors has been a topic of great interest for some time. For example, significant changes of cardiovascular control and reactivity have been highlighted as important mechanisms for the protective effect of exercise as a simple and effective, non medical therapy for many pathologies. However, despite the great number of studies performed to date (e.g. >54,000 entries in Pubmed for "cardiovascular stress"), important questions of the role stress has on cardiovascular function still remain. For instance, What factors account for the different cardiovascular responses between mental and physical stressors? How do these different components of the cardiovascular system interact during stress? Which cardiovascular responses to stress are the most important for identifying normal, depressed, and enhanced cardiovascular function? Can these stress-induced responses assist with patient diagnosis and prognosis? What impact does physical fitness have on the relationship between cardiovascular function and health? The current topic examined our current understanding of cardiovascular responses to stress and the significant role that physical fitness has on these responses for improved function and health. Manuscripts focusing on heart rate variability (HRV), heart rate recovery, and other novel cardiovascular assessments were especially encouraged.