

1. Record Nr.	UNINA9910463835903321
Autore	Idris Ivan
Titolo	NumPy cookbook : over 90 fascinating recipes to learn and perform mathematical, scientific, and engineering Python computations with NumPy // Ivan Idris
Pubbl/distr/stampa	Birmingham, [England] : , : Packt Publishing, , 2015 ©2015
Edizione	[Second edition.]
Descrizione fisica	1 online resource (258 p.)
Collana	Community Experience Distilled
Disciplina	519.4
Soggetti	Numerical analysis - Data processing Object-oriented programming (Computer science) Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Quick answers to common problems"--Cover. Includes index.
Nota di contenuto	Cover; Copyright; Credits; About the Author; About the Reviewers; www.PacktPub.com; Table of Contents; Preface; Chapter 1: Winding Along with IPython; Introduction; Installing IPython; Using IPython as a shell; Reading manual pages; Installing matplotlib; Running an IPython notebook; Exporting an IPython notebook; Importing a web notebook; Configuring a notebook server; Exploring the SymPy profile; Chapter 2: Advanced Indexing and Array Concepts; Introduction; Installing SciPy; Installing PIL; Resizing images; Creating views and copies; Flipping Lena; Fancy indexing Indexing with a list of locations Indexing with Booleans; Stride tricks for Sudoku; Broadcasting arrays; Chapter 3: Getting to Grips with Commonly Used Functions; Introduction; Summing Fibonacci numbers; Finding prime factors; Finding palindromic numbers; The steady state vector; Discovering a power law; Trading periodically on dips; Simulating trading at random; Sieving integers with the Sieve of Eratosthenes; Chapter 4: Connecting NumPy with the Rest of the World; Introduction; Using the buffer protocol; Using the array interface; Exchanging data with MATLAB and Octave; Installing RPy2

Interfacing with R; Installing JPY; Sending a NumPy array to JPY; Installing Google App Engine; Deploying the NumPy code on the Google Cloud; Running the NumPy code in a PythonAnywhere web console; Chapter 5: Audio and Image Processing; Introduction; Loading images into memory maps; Combining images; Blurring images; Repeating audio fragments; Generating sounds; Designing an audio filter; Edge detection with the Sobel filter; Chapter 6: Special Arrays and Universal Functions; Introduction; Creating a universal function; Finding Pythagorean triples; Performing string operations with chararray; Creating a masked array; Ignoring negative and extreme values; Creating a scores table with a recarray function; Chapter 7: Profiling and Debugging; Introduction; Profiling with timeit; Profiling with IPython; Installing line_profiler; Profiling code with line_profiler; Profiling code with the cProfile extension; Debugging with IPython; Debugging with PuDB; Chapter 8: Quality Assurance; Introduction; Installing Pyflakes; Performing static analysis with Pyflakes; Analyzing code with Pylint; Performing static analysis with Pychecker; Testing code with docstrings; Writing unit tests; Testing code with mocks; Testing the BDD way; Chapter 9: Speeding Up Code with Cython; Introduction; Installing Cython; Building a Hello World program; Using Cython with NumPy; Calling C functions; Profiling the Cython code; Approximating factorials with Cython; Chapter 10: Fun with Scikits; Introduction; Installing scikit-learn; Loading an example dataset; Clustering Dow Jones stocks with scikits-learn; Installing statsmodels; Performing a normality test with statsmodels; Installing scikit-image; Detecting corners; Detecting edges; Installing pandas

Sommario/riassunto

If you are a Python developer with some experience of working on scientific, mathematical, and statistical applications and want to gain an expert understanding of NumPy programming in relation to science, math, and finance using practical recipes, then this book is for you.

2. Record Nr.	UNINA9910872687603321
Titolo	19th International Conference on Automated Software Engineering
Pubbl/distr/stampa	[Place of publication not identified], : IEEE Computer Society Press, 2004
Descrizione fisica	1 online resource (xxviii, 435 pages) : illustrations
Disciplina	005.1
Soggetti	Computer-aided software engineering Software engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Sommario/riassunto	Annotation ASE focuses on the automation aspects of formal methods, software process, human-computer interaction, requirements engineering, reverse engineering, testing, verification and validation, while still including an active AI and knowledge-based research focus.