Elegant SciPy (Paperback)

By Juan Nunez-Iglesias, Stefan van der Walt, Harriet Dashnow

O Reilly Media, Inc, USA, United States, 2017. Paperback. Condition: New. Language: English . Brand New Book. Welcome to Scientific Python and its community. If you re a scientist who programs with Python, this practical guide not only teaches you the fundamental parts of SciPy and libraries related to it, but also gives you a taste for beautiful, easy-to-read code that you can use in practice. You ll learn how to write elegant code that s clear, concise, and efficient at executing the task at hand. Throughout the book, you ll work with examples from the wider scientific Python ecosystem, using code that illustrates principles outlined in the book. Using actual scientific data, you ll work on real-world problems with SciPy, NumPy, Pandas, scikit-image, and other Python libraries. Explore the NumPy array, the data structure that underlies numerical scientific computation Use quantile normalization to ensure that measurements fit a specific distribution Represent separate regions in an image with a Region Adjacency Graph Convert temporal or spatial data into frequency domain data with the Fast Fourier Transform Solve sparse matrix problems, including image segmentations, with SciPy s sparse module Perform linear algebra by using SciPy packages Explore image alignment (registration) with...

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