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   Autore   Pontieri, Ernesto

   Titolo   I Normanni nell'Italia Meridionale : Parte 1 : La conquista : Corso ufficiale di Storia medievale per l'anno accademico 1947-48 / Appunti presi dalle lezioni del prof. Ernesto Pontieri

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   Livello bibliografico   Monografia

2. **Record Nr.**   UNINA9911007172103321

   Autore   Nguyen Quan

   Titolo   Advanced Python Programming : accelerate your python programs using proven techniques and design patterns / / Quan Nguyen

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   ISBN   9781523151370
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   Edizione   [Second edition.]

   Descrizione fisica   1 online resource (xxiv, 576 pages) : illustrations

   Disciplina   005.72

   Soggetti   Python (Computer program language)
   Application software - Development

   Lingua di pubblicazione   Inglese

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

   Nota di bibliografia   Includes bibliographical references and index.

   Nota di contenuto   Table of Contents Benchmarking and Profiling Pure Python Optimizations Fast Array Operations with NumPy and Pandas C

Performance with Cython Exploring Compilers Automatic Differentiation and Accelerated Linear Algebra for Machine Learning Implementing Concurrency Parallel Processing Concurrent Web Requests Concurrent Image Processing Building Communication Channels with asyncio Deadlocks Starvation Race Conditions The Global Interpreter Lock The Factory Pattern The Builder Pattern Other Creational Patterns The Adapter Pattern The Decorator Pattern The Bridge Pattern The Facade Pattern Other Structural Patterns The Chain of Responsibility Pattern The Command Pattern The Observer Pattern.

| Sommario/riassunto | "Write fast, robust, and highly reusable applications using Python's internal optimization, state-of-the-art performance-benchmarking tools, and cutting-edge libraries Key Features Benchmark, profile, and accelerate Python programs using optimization tools Scale applications to multiple processors with concurrent programming Make applications robust and reusable using effective design patterns Book Description Python's powerful capabilities for implementing robust and efficient programs make it one of the most sought-after programming languages. In this book, you'll explore the tools that allow you to improve performance and take your Python programs to the next level. This book starts by examining the built-in as well as external libraries that streamline tasks in the development cycle, such as benchmarking, profiling, and optimizing. You'll then get to grips with using specialized tools such as dedicated libraries and compilers to increase your performance at number-crunching tasks, including training machine learning models. The book covers concurrency, a major solution to making programs more efficient and scalable, and various concurrent programming techniques such as multithreading, multiprocessing, and asynchronous programming. You'll also understand the common problems that cause undesirable behavior in concurrent programs. Finally, you'll work with a wide range of design patterns, including creational, structural, and behavioral patterns that enable you to tackle complex design and architecture challenges, making your programs more robust and maintainable. By the end of the book, you'll be exposed to a wide range of advanced functionalities in Python and be equipped with the practical knowledge needed to apply them to your use cases. What you will learn Write efficient numerical code with NumPy, pandas, and Xarray Use Cython and Numba to achieve native performance Find bottlenecks in your Python code using profilers Optimize your machine learning models with JAX Implement multithreaded, multiprocessing, and asynchronous programs Solve common problems in concurrent programming, such as deadlocks Tackle architecture challenges with design patterns Who this book is for This book is for intermediate to experienced Python programmers who are looking to scale up their applications in a systematic and robust manner. Programmers from a range of backgrounds will find this book useful, including software engineers, scientific programmers, and software architects."-- |