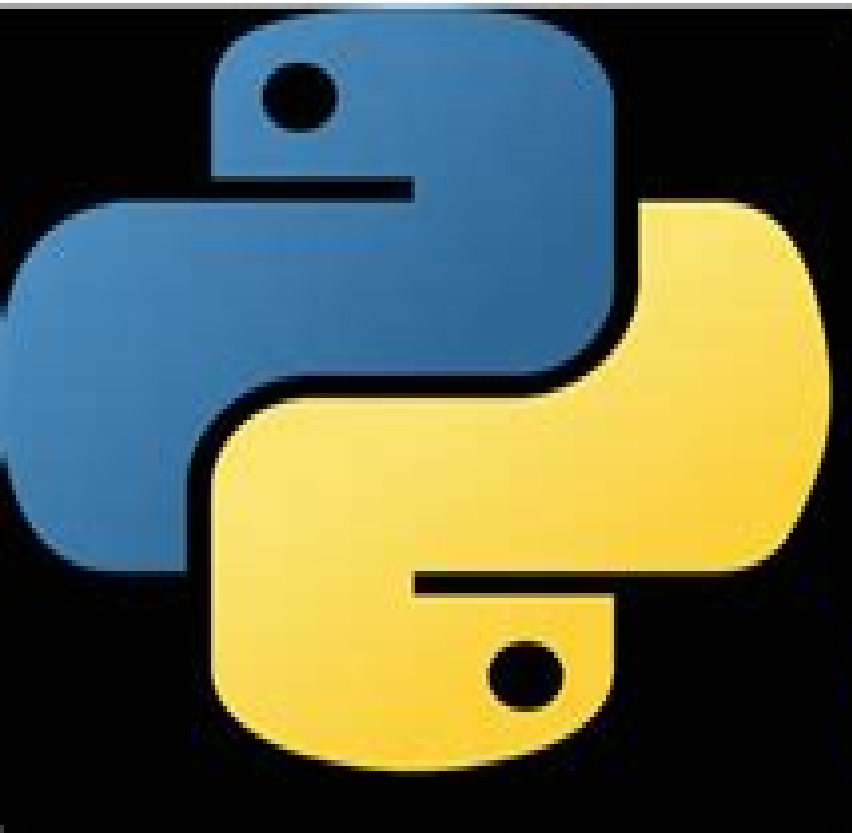


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Technical Library, Pittsburgh, Pa United States. Bureau of Mines. Technical Library, Pittsburgh,1968 *Parallel and High Performance Programming with Python* Fabio Nelli,2023-04-13 Unleash the capabilities of Python and its libraries for solving high performance computational problems KEY FEATURES Explores parallel programming concepts and techniques for high performance computing Covers parallel algorithms multiprocessing distributed computing and GPU programming Provides practical use of popular Python libraries tools like NumPy Pandas Dask and TensorFlow DESCRIPTION This book will teach you everything about the powerful techniques and applications of parallel computing from the basics of parallel programming to the cutting edge innovations shaping the future of computing The book starts with an introduction to parallel programming and the different types of parallelism including parallel programming with threads and processes The book then delves into asynchronous programming distributed Python and GPU programming with Python providing you with the tools you need to optimize your programs for distributed and high performance computing The book also covers a wide range of applications for parallel computing including data science artificial intelligence and other complex scientific simulations You will learn about the challenges and opportunities presented by parallel computing for these applications and how to overcome them By the end of the book you will have insights into the future of parallel computing the latest research and developments in the field and explore the exciting possibilities that lie ahead WHAT WILL YOU LEARN Build faster smarter and more efficient applications for data analysis machine learning and scientific computing Implement parallel algorithms in Python Best practices for designing implementing and scaling parallel programs in Python WHO IS THIS BOOK FOR This book is aimed at software developers who wish to take their careers to the next level by improving their skills and learning about concurrent and parallel programming It is also intended for Python developers who aspire to write fast and efficient programs and for students who wish to learn the fundamentals of parallel computing and its practical uses TABLE OF CONTENTS 1 Introduction to Parallel Programming 2 Building Multithreaded Programs 3 Working with Multiprocessing and mpi4py Library 4 Asynchronous Programming with AsyncIO 5 Realizing Parallelism with Distributed Systems 6 Maximizing Performance with GPU Programming using CUDA 7 Embracing the Parallel Computing Revolution 8 Scaling Your Data Science Applications with Dask 9 Exploring the Potential of AI with Parallel Computing 10 Hands on Applications of Parallel Computing *Catalogue of the Public Library of Indianapolis* Indianapolis Public Library,1873 **Catalogue of the Free Public Library, Sydney, 1876** New South Wales. Library,1885 **List of books in the Joint Library of the Parliament of the Cape of Good Hope** Cape of Good Hope (Colony). Parliament. Library,1898 Catalogue of the Silas

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This two volume set of LNCS 12489 and 12490 constitutes the thoroughly refereed conference proceedings of the 21th International Conference on Intelligent Data Engineering and Automated Learning IDEAL 2020 held in Guimaraes Portugal in November 2020 The 93 papers presented were carefully reviewed and selected from 134 submissions These papers provided a timely sample of the latest advances in data engineering and machine learning from methodologies frameworks and algorithms to applications The core themes of IDEAL 2020 include big data challenges machine learning data mining information retrieval and management bio neuro informatics bio inspired models agents and hybrid intelligent systems real world applications of intelligent techniques and AI The conference was held virtually due to the COVID 19 pandemic

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