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**Kim Crawley**



## **Nvidia Gpu Discount Open Now:**

Euro-Par 2024: Parallel Processing Jesus Carretero, Sameer Shende, Javier Garcia-Blas, Ivona Brandic, Katzalin Olcoz, Martin Schreiber, 2024-08-25 The three volume set LNCS 14801 14802 and 14803 constitutes the proceedings of the 30th European Conference on Parallel and Distributed Processing Euro Par 2024 which took place in Madrid Spain during August 26 30 2024 The 88 full papers included in the proceedings were carefully reviewed and selected from 293 submissions They were organized in topical sections as follows Part I Programming compilers and performance scheduling resource management cloud edge computing and workflows Part II Architectures and accelerators data analytics AI and computational science Part III Theory and algorithms multidisciplinary domain specific and applied parallel and distributed computing

Hands-On GPU Programming with Python and CUDA Dr. Brian Tuomanen, 2018-11-27 Build real world applications with Python 2.7 CUDA 9 and CUDA 10 We suggest the use of Python 2.7 over Python 3.x since Python 2.7 has stable support across all the libraries we use in this book

**Key Features** Expand your background in GPU programming PyCUDA scikit cuda and Nsight Effectively use CUDA libraries such as cuBLAS cuFFT and cuSolver Apply GPU programming to modern data science applications

**Book Description** Hands On GPU Programming with Python and CUDA hits the ground running you'll start by learning how to apply Amdahl's Law use a code profiler to identify bottlenecks in your Python code and set up an appropriate GPU programming environment You'll then see how to query the GPU's features and copy arrays of data to and from the GPU's own memory As you make your way through the book you'll launch code directly onto the GPU and write full blown GPU kernels and device functions in CUDA C You'll get to grips with profiling GPU code effectively and fully test and debug your code using Nsight IDE Next you'll explore some of the more well known NVIDIA libraries such as cuFFT and cuBLAS With a solid background in place you will now apply your new found knowledge to develop your very own GPU based deep neural network from scratch You'll then explore advanced topics such as warp shuffling dynamic parallelism and PTX assembly In the final chapter you'll see some topics and applications related to GPU programming that you may wish to pursue including AI graphics and blockchain By the end of this book you will be able to apply GPU programming to problems related to data science and high performance computing

**What you will learn** Launch GPU code directly from Python Write effective and efficient GPU kernels and device functions Use libraries such as cuFFT cuBLAS and cuSolver Debug and profile your code with Nsight and Visual Profiler Apply GPU programming to data science problems Build a GPU based deep neural network from scratch Explore advanced GPU hardware features such as warp shuffling

**Who this book is for** Hands On GPU Programming with Python and CUDA is for developers and data scientists who want to learn the basics of effective GPU programming to improve performance using Python code You should have an understanding of first year college or university level engineering mathematics and physics and have some experience with Python as well as in any C based programming language such as C C++ Go or Java

Parallel Processing and Applied Mathematics Roman Wyrzykowski, Jack

Dongarra,Ewa Deelman,Konrad Karczewski,2025-05-02 This book constitutes the refereed proceedings of the 15th International Conference on Parallel Processing and Applied Mathematics PPAM 2024 held in Ostrava Czech Republic during September 8 11 2024 The 75 full papers included in this book were carefully reviewed and selected from 134 submissions The papers are organized in the following topical sections Part I Numerical Algorithms and Parallel Scientific Computing Architectural Aspects of HPC Parallel Non numerical Algorithms GPU Computing Performance Analysis and Prediction in HPC Systems Environments and Frameworks for Parallel Cloud Edge Computing and Applications of Parallel and Distributed Computing Part II First PPAM Workshop on RISC V RISC V PPAM 2024 Special Session on Scheduling for Parallel Computing 10th Workshop on Language Based Parallel Programming WLPP 2024 7th Workshop on Models Algorithms and Methodologies for Hybrid Parallelism in New HPC Systems MAMHYP 2024 and Second Workshop on Quantum Computing and Communication Part III First Workshop on Advancements of Global Challenges Application Second Workshop on Applications of Machine Learning and Artificial Intelligence in High Performance Computing 5th Workshop on Applied High Performance Numerical Algorithms for PDEs Special Session on Parallel EVD SVD and its Application in Matrix Computations 6th Minisymposium on HPC Applications in Physical Sciences and 8th Workshop on Complex Collective Systems *Caffe2 Quick Start Guide* Ashwin Nanjappa,2019-05-31 Build and train scalable neural network models on various platforms by leveraging the power of Caffe2 Key FeaturesMigrate models trained with other deep learning frameworks on Caffe2Integrate Caffe2 with Android or iOS and implement deep learning models for mobile devicesLeverage the distributed capabilities of Caffe2 to build models that scale easilyBook Description Caffe2 is a popular deep learning library used for fast and scalable training and inference of deep learning models on various platforms This book introduces you to the Caffe2 framework and shows how you can leverage its power to build train and deploy efficient neural network models at scale It will cover the topics of installing Caffe2 composing networks using its operators training models and deploying models to different architectures It will also show how to import models from Caffe and from other frameworks using the ONNX interchange format It covers the topic of deep learning accelerators such as CPU and GPU and shows how to deploy Caffe2 models for inference on accelerators using inference engines Caffe2 is built for deployment to a diverse set of hardware using containers on the cloud and resource constrained hardware such as Raspberry Pi which will be demonstrated By the end of this book you will be able to not only compose and train popular neural network models with Caffe2 but also be able to deploy them on accelerators to the cloud and on resource constrained platforms such as mobile and embedded hardware What you will learnBuild and install Caffe2Compose neural networksTrain neural network on CPU or GPUImport a neural network from CaffeImport deep learning models from other frameworksDeploy models on CPU or GPU accelerators using inference enginesDeploy models at the edge and in the cloudWho this book is for Data scientists and machine learning engineers who wish to create fast and scalable deep learning models in Caffe2 will find this book to be very useful Some

understanding of the basic machine learning concepts and prior exposure to programming languages like C and Python will be useful

**Hands-On GPU Computing with Python** Avimanyu Bandyopadhyay, 2019-05-14 Explore GPU enabled programmable environment for machine learning scientific applications and gaming using PuCUDA PyOpenGL and Anaconda Accelerate Key Features Understand effective synchronization strategies for faster processing using GPUs Write parallel processing scripts with PyCuda and PyOpenCL Learn to use the CUDA libraries like CuDNN for deep learning on GPUs Book Description GPUs are proving to be excellent general purpose parallel computing solutions for high performance tasks such as deep learning and scientific computing This book will be your guide to getting started with GPU computing It will start with introducing GPU computing and explain the architecture and programming models for GPUs You will learn by example how to perform GPU programming with Python and you ll look at using integrations such as PyCUDA PyOpenCL CuPy and Numba with Anaconda for various tasks such as machine learning and data mining Going further you will get to grips with GPU work flows management and deployment using modern containerization solutions Toward the end of the book you will get familiar with the principles of distributed computing for training machine learning models and enhancing efficiency and performance By the end of this book you will be able to set up a GPU ecosystem for running complex applications and data models that demand great processing capabilities and be able to efficiently manage memory to compute your application effectively and quickly What you will learn Utilize Python libraries and frameworks for GPU acceleration Set up a GPU enabled programmable machine learning environment on your system with Anaconda Deploy your machine learning system on cloud containers with illustrated examples Explore PyCUDA and PyOpenCL and compare them with platforms such as CUDA OpenCL and ROCm Perform data mining tasks with machine learning models on GPUs Extend your knowledge of GPU computing in scientific applications Who this book is for Data Scientist Machine Learning enthusiasts and professionals who wants to get started with GPU computation and perform the complex tasks with low latency Intermediate knowledge of Python programming is assumed

**Contemporary Strategy Analysis, with eBook Access Code** Robert M. Grant, 2024-11-19 THE UPDATED NEW EDITION OF THE CLASSIC STRATEGIC ANALYSIS TEXTBOOK ADDRESSES THE EMERGING CHALLENGES THAT BUSINESSES FACE IN AN INCREASINGLY COMPLEX AND DYNAMIC ENVIRONMENT A market leading title across the world in upper level undergraduate and MBA courses Contemporary Strategy Analysis combines a rigorous approach to business strategy analysis with highly relevant examples of current practice and a rich collection of case studies With a lively narrative style expert strategist and lecturer Robert M Grant introduces students to some of the latest thinking in the strategy field while addressing the strategic issues that business enterprises face today Designed to be accessible for students from different backgrounds with varying levels of experience the twelfth edition of Contemporary Strategy Analysis builds upon its tradition of clarity of exposition emphasis on practicality and concentration on the fundamentals of value creation and appropriation A wide range of contemporary topics are presented alongside fully

integrated business models real world examples of business model innovation and practical tools for formulating and implementing business strategies Contemporary Strategy Analysis Twelfth Edition remains the ideal textbook for core strategy courses in Business Studies Management and MBA programs as well as for executive courses on competitive strategy corporate strategy and management consulting skills It is also a valuable resource for managers business owners founders and other professionals who are responsible for the strategic direction of a modern enterprise AN INTERACTIVE MULTIMEDIA LEARNING EXPERIENCE This textbook includes access to an interactive multimedia e text Icons throughout the print book signal corresponding digital content in the e text Videos and Animations Contemporary Strategy Analysis integrates abundant video content developed to complement the text and engage readers more deeply Content Review Videos provide a detailed review of each learning objective in each chapter and help students learn key concepts and an understanding of strategic management Self Tests and Practice Questions The e text also includes self scoring concept check quizzes

Database Management using AI: A Comprehensive Guide A Purushotham Reddy, 2024-10-20 Database Management Using AI The Ultimate Guide for Data Professionals Database Management Using AI A Comprehensive Guide is an essential resource for anyone eager to explore how artificial intelligence AI is revolutionizing the field of database management This book caters to a wide audience from database administrators data scientists and tech enthusiasts to professionals looking to integrate AI into their data management practices It offers a professional yet easily understandable exploration of how AI is transforming modern data systems The guide starts by laying a solid foundation in database management fundamentals covering key concepts such as data models SQL and database design principles It then delves into how AI can optimize database performance enhance security and automate complex tasks like data retrieval query optimization and schema design With this book readers will gain deep insights into integrating AI with traditional database systems and how AI tools are shaping the future of data management Unlike other books that focus purely on theory this guide stands out by emphasizing real world applications Through practical case studies it demonstrates how AI driven database systems are being leveraged across industries such as e commerce healthcare finance and logistics These case studies show the real world impact of AI helping businesses increase efficiency reduce errors and make smarter data backed decisions The book illustrates how AI is enabling organizations to stay ahead in a competitive market by harnessing the power of intelligent database management Throughout the guide readers will learn about the evolution of database systems including the shift from relational databases to modern NoSQL databases and how AI is enhancing traditional database models to meet the demands of the digital age The book explores how AI integration in databases is transforming how data is processed and analyzed automating repetitive tasks and improving the scalability and performance of databases One of the key highlights of this book is the coverage of AI in database management Readers will learn how AI is being used to automate routine database tasks improve security by predicting and mitigating threats and streamline database management

operations through automation. Additionally, the book delves into how AI helps in predictive analytics and data mining, uncovering hidden patterns and enabling organizations to make accurate predictions based on large volumes of data. The book also covers predictive analytics and data mining, teaching readers how AI tools can be used to extract valuable insights from data, identify trends, and uncover business opportunities that were previously hard to detect. By understanding how AI can leverage data to drive business intelligence, readers will be able to implement AI-driven solutions that improve decision-making processes. Furthermore, this guide explores the future of database management with AI. It takes a close look at emerging trends, including autonomous databases and the growing role of cloud-based AI solutions in shaping the future of data management. These innovative technologies are creating intelligent self-managing databases that are poised to revolutionize how data is stored, processed, and analyzed.

**Database Management Using AI** provides readers with the knowledge and practical skills needed to navigate the fast-evolving landscape of AI-powered databases. Whether you're an industry professional or a student, this book is packed with actionable insights that will keep you ahead in the digital world. It's a must-have resource for anyone looking to understand the practical impact of AI on database systems and harness the power of machine learning, big data, and cloud computing to transform their approach to data management. With its combination of clear explanations, real-world case studies, and forward-looking insights, this book is the ultimate guide for anyone wanting to stay competitive in the digital age.

**Database Management Using AI** is more than just a book; it's an essential tool for anyone serious about mastering the future of data systems. Refer [www.latest2all.com](http://www.latest2all.com) for details. [Learn](#)

[OpenAI Whisper](#) Josué R. Batista, 2024-05-31 Master automatic speech recognition (ASR) with groundbreaking generative AI for unrivaled accuracy and versatility in audio processing.

**Key Features:** Uncover the intricate architecture and mechanics behind Whisper's robust speech recognition. Apply Whisper's technology in innovative projects from audio transcription to voice synthesis. Navigate the practical use of Whisper in real-world scenarios for achieving dynamic tech solutions. Purchase of the print or Kindle book includes a free PDF eBook.

**Book Description:** As the field of generative AI evolves, so does the demand for intelligent systems that can understand human speech. Navigating the complexities of automatic speech recognition (ASR) technology is a significant challenge for many professionals. This book offers a comprehensive solution that guides you through OpenAI's advanced ASR system. You'll begin your journey with Whisper's foundational concepts, gradually progressing to its sophisticated functionalities. Next, you'll explore the transformer model, understand its multilingual capabilities, and grasp training techniques using weak supervision. The book helps you customize Whisper for different contexts and optimize its performance for specific needs. You'll also focus on the vast potential of Whisper in real-world scenarios, including its transcription services, voice-based search, and the ability to enhance customer engagement. Advanced chapters delve into voice synthesis and diarization while addressing ethical considerations. By the end of this book, you'll have an understanding of ASR technology and have the skills to implement Whisper. Moreover, Python coding examples will equip

you to apply ASR technologies in your projects as well as prepare you to tackle challenges and seize opportunities in the rapidly evolving world of voice recognition and processing What you will learn Integrate Whisper into voice assistants and chatbots Use Whisper for efficient accurate transcription services Understand Whisper s transformer model structure and nuances Fine tune Whisper for specific language requirements globally Implement Whisper in real time translation scenarios Explore voice synthesis capabilities using Whisper s robust tech Execute voice diarization with Whisper and NVIDIA s NeMo Navigate ethical considerations in advanced voice technology Who this book is for Learn OpenAI Whisper is designed for a diverse audience including AI engineers tech professionals and students It s ideal for those with a basic understanding of machine learning and Python programming and an interest in voice technology from developers integrating ASR in applications to researchers exploring the cutting edge possibilities in artificial intelligence

**Cloud Computing for Machine Learning and Cognitive Applications** Kai Hwang, 2017-07-07 The first textbook to teach students how to build data analytic solutions on large data sets using cloud based technologies This is the first textbook to teach students how to build data analytic solutions on large data sets specifically in Internet of Things applications using cloud based technologies for data storage transmission and mashup and AI techniques to analyze this data This textbook is designed to train college students to master modern cloud computing systems in operating principles architecture design machine learning algorithms programming models and software tools for big data mining analytics and cognitive applications The book will be suitable for use in one semester computer science or electrical engineering courses on cloud computing machine learning cloud programming cognitive computing or big data science The book will also be very useful as a reference for professionals who want to work in cloud computing and data science Cloud and Cognitive Computing begins with two introductory chapters on fundamentals of cloud computing data science and adaptive computing that lay the foundation for the rest of the book Subsequent chapters cover topics including cloud architecture mashup services virtual machines Docker containers mobile clouds IoT and AI inter cloud mashups and cloud performance and benchmarks with a focus on Google s Brain Project DeepMind and X Lab programs IBM Kai Hwang M SyNapse Bluemix programs cognitive initiatives and neurocomputers The book then covers machine learning algorithms and cloud programming software tools and application development applying the tools in machine learning social media deep learning and cognitive applications All cloud systems are illustrated with big data and cognitive application examples

**Hands-On Machine Learning with Scikit-Learn, Keras, and TensorFlow** Aurélien Géron, 2019-09-05 Through a series of recent breakthroughs deep learning has boosted the entire field of machine learning Now even programmers who know close to nothing about this technology can use simple efficient tools to implement programs capable of learning from data This practical book shows you how By using concrete examples minimal theory and two production ready Python frameworks Scikit Learn and TensorFlow author Aurélien Géron helps you gain an intuitive understanding of the concepts and tools for building intelligent systems You ll learn a range of techniques starting with

simple linear regression and progressing to deep neural networks With exercises in each chapter to help you apply what you ve learned all you need is programming experience to get started Explore the machine learning landscape particularly neural nets Use Scikit Learn to track an example machine learning project end to end Explore several training models including support vector machines decision trees random forests and ensemble methods Use the TensorFlow library to build and train neural nets Dive into neural net architectures including convolutional nets recurrent nets and deep reinforcement learning Learn techniques for training and scaling deep neural nets

**New Frontiers in High Performance Computing and Big Data** Geoffrey Fox,Vladimir Getov,Lucio Grandinetti,Thomas Sterling,2017-11-15 For the last four decades parallel computing platforms have increasingly formed the basis for the development of high performance systems primarily aimed at the solution of intensive computing problems and the application of parallel computing systems has also become a major factor in furthering scientific research But such systems also offer the possibility of solving the problems encountered in the processing of large scale scientific data sets as well as in the analysis of Big Data in the fields of medicine social media marketing economics etc This book presents papers from the International Research Workshop on Advanced High Performance Computing Systems held in Cetraro Italy in July 2016 The workshop covered a wide range of topics and new developments related to the solution of intensive and large scale computing problems and the contributions included in this volume cover aspects of the evolution of parallel platforms and highlight some of the problems encountered with the development of ever more powerful computing systems The importance of future large scale data science applications is also discussed The book will be of particular interest to all those involved in the development or application of parallel computing systems

*Hacker Culture A to Z* Kim Crawley,2023-11-06 Hacker culture can be esoteric but this entertaining reference is here to help Written by longtime cybersecurity researcher and writer Kim Crawley this fun reference introduces you to key people and companies fundamental ideas and milestone films games and magazines in the annals of hacking From airgapping to phreaking to zombie malware grasping the terminology is crucial to understanding hacker culture and history If you re just getting started on your hacker journey you ll find plenty here to guide your learning and help you understand the references and cultural allusions you come across More experienced hackers will find historical depth wry humor and surprising facts about familiar cultural touchstones Understand the relationship between hacker culture and cybersecurity Get to know the ideas behind the hacker ethos like knowledge should be free Explore topics and publications central to hacker culture including 2600 Magazine Appreciate the history of cybersecurity Learn about key figures in the history of hacker culture Understand the difference between hackers and cybercriminals

**Computational Science and Its Applications - ICCSA 2018** Osvaldo Gervasi,Beniamino Murgante,Sanjay Misra,Elena Stankova,Carmelo M. Torre,Ana Maria A.C. Rocha,David Taniar,Bernady O. Apduhan,Eufemia Tarantino,Yeonseung Ryu,2018-07-03 The five volume set LNCS 10960 until 10964 constitutes the refereed proceedings of the 18th International Conference on Computational Science and

Its Applications ICCSA 2018 held in Melbourne Australia in July 2018 Apart from the general tracks ICCSA 2018 also includes 34 international workshops in various areas of computational sciences ranging from computational science technologies to specific areas of computational sciences such as computer graphics and virtual reality GPU-based Parallel Implementation of Swarm Intelligence Algorithms Ying Tan,2016-04-15 GPU based Parallel Implementation of Swarm Intelligence Algorithms combines and covers two emerging areas attracting increased attention and applications graphics processing units GPUs for general purpose computing GPGPU and swarm intelligence This book not only presents GPGPU in adequate detail but also includes guidance on the appropriate implementation of swarm intelligence algorithms on the GPU platform GPU based implementations of several typical swarm intelligence algorithms such as PSO FWA GA DE and ACO are presented and having described the implementation details including parallel models implementation considerations as well as performance metrics are discussed Finally several typical applications of GPU based swarm intelligence algorithms are presented This valuable reference book provides a unique perspective not possible by studying either GPGPU or swarm intelligence alone This book gives a complete and whole picture for interested readers and new comers who will find many implementation algorithms in the book suitable for immediate use in their projects Additionally some algorithms can also be used as a starting point for further research Presents a concise but sufficient introduction to general purpose GPU computing which can help the layman become familiar with this emerging computing technique Describes implementation details such as parallel models and performance metrics so readers can easily utilize the techniques to accelerate their algorithmic programs Appeals to readers from the domain of high performance computing HPC who will find the relatively young research domain of swarm intelligence very interesting Includes many real world applications which can be of great help in deciding whether or not swarm intelligence algorithms or GPGPU is appropriate for the task at hand The Oracle of Artificial Intelligence Sreenivas Peddiraju,2025-03-30 The Story Three ambitious AI researchers supported by two of their friends try to address the uncontrolled growth of AI technology and its misuse by corporations and governments They search for a solution to provide a new direction for AI for the good of humanity What support do they receive and do they finally achieve their goal Many characters in the story are inspired by real people sometimes up to 100% The author fully owns the hypothesis and the hallucinations as termed by AI professionals of the story gladly About the Author the Book AI is now a daily trending topic with tons of content discussing problems but hardly any offering solutions More than you your children the next generation must navigate these uncertain times Moreover they will learn everything about Artificial Intelligence from YouTube and social media But who will guide them to the oldest intelligence the subtle natural intelligence of humans and the history of natural languages their necessity relevance to their future and even their connection to modern AI As a father of two I have chosen to write a human story over a sci fi narrative to explore the possibilities of solving AI related concerns With hope for positive times ahead this hypothesis must become reality as soon as possible and that will happen

only if we all wish to make it so This book aims to help readers young and open in heart recognize the science behind ancient wisdom The Mundaka Upanishad says Svasti vah par ya tamasa parast t May your efforts to cross the ocean of darkness of ignorance and reach the shores of light and peace be fulfilled So the genre aligns with The Path of Enlightenment and its chosen title The Oracle of Artificial Intelligence It is intended for general readers aged 15 and up requiring only curiosity prior tech knowledge is only a bonus Some sections deliberately adopt a textbook like style for the general audience while a few thoughts on possible technical solutions are included for those tracking AI research closely However general readers can safely skip these sections and still grasp the essence of the story Additional references are available upon request I d love to hear your feedback Stay blessed and I wish you a happy reading journey into your golden future Sreenivas

### **The History of the GPU - New Developments**

Jon Peddie,2023-01-01 This third book in the three part series on the History of the GPU covers the second to sixth eras of the GPU which can be found in anything that has a display or screen The GPU is now part of supercomputers PCs Smartphones and tablets wearables game consoles and handhelds TVs and every type of vehicle including boats and planes In the early 2000s the number of GPU suppliers consolidated to three whereas now the number has expanded to almost 20 In 2022 the GPU market was worth over 250 billion with over 2.2 billion GPUs being sold just in PCs and more than 10 billion in smartphones Understanding the power and history of these devices is not only a fascinating tale but one that will aid your understanding of some of the developments in consumer electronics computers new automobiles and your fitness watch

C++ High Performance Bjorn Andrist,Viktor Sehr,Ben Garney,2020-12-30 A comprehensive guide to help aspiring and professional C developers elevate the performance of their apps by allowing them to run faster and consume fewer resources Purchase of the print or Kindle book includes a free eBook in PDF format Key Features Updated to C 20 with completely revised code and more content on error handling benchmarking memory allocators and concurrent programming Explore the latest C 20 features including concepts ranges and coroutines Utilize C constructs and techniques to carry out effective data structure optimization and memory management Book Description C High Performance Second Edition guides you through optimizing the performance of your C apps This allows them to run faster and consume fewer resources on the device they re running on without compromising the readability of your codebase The book begins by introducing the C language and some of its modern concepts in brief Once you are familiar with the fundamentals you will be ready to measure identify and eradicate bottlenecks in your C codebase By following this process you will gradually improve your style of writing code The book then explores data structure optimization memory management and how it can be used efficiently concerning CPU caches After laying the foundation the book trains you to leverage algorithms ranges and containers from the standard library to achieve faster execution write readable code and use customized iterators It provides hands on examples of C metaprogramming coroutines reflection to reduce boilerplate code proxy objects to perform optimizations under the hood concurrent programming and lock free data structures The book

concludes with an overview of parallel algorithms By the end of this book you will have the ability to use every tool as needed to boost the efficiency of your C projects What you will learn Write specialized data structures for performance critical code Use modern metaprogramming techniques to reduce runtime calculations Achieve efficient memory management using custom memory allocators Reduce boilerplate code using reflection techniques Reap the benefits of lock free concurrent programming Gain insights into subtle optimizations used by standard library algorithms Compose algorithms using ranges library Develop the ability to apply metaprogramming aspects such as constexpr constraints and concepts Implement lazy generators and asynchronous tasks using C 20 coroutines Who this book is for If you re a C developer looking to improve the efficiency of your code or just keen to upgrade your skills to the next level this book is for you **CUDA Programming** Shane Cook,2012-12-28 If you need to learn CUDA but don t have experience with parallel computing CUDA Programming A Developer s Introduction offers a detailed guide to CUDA with a grounding in parallel fundamentals It starts by introducing CUDA and bringing you up to speed on GPU parallelism and hardware then delving into CUDA installation Chapters on core concepts including threads blocks grids and memory focus on both parallel and CUDA specific issues Later the book demonstrates CUDA in practice for optimizing applications adjusting to new hardware and solving common problems Comprehensive introduction to parallel programming with CUDA for readers new to both Detailed instructions help readers optimize the CUDA software development kit Practical techniques illustrate working with memory threads algorithms resources and more Covers CUDA on multiple hardware platforms Mac Linux and Windows with several NVIDIA chipsets Each chapter includes exercises to test reader knowledge [Python Polars: The Definitive Guide](#) Jeroen Janssens,Thijs Nieuwdorp,2025-02-20 Unlock the power of Polars a Python package for transforming analyzing and visualizing data In this hands on guide Jeroen Janssens and Thijs Nieuwdorp walk you through every feature of Polars showing you how to use it for real world tasks like data wrangling exploratory data analysis building pipelines and more Whether you re a seasoned data professional or new to data science you ll quickly master Polars expressive API and its underlying concepts You don t need to have experience with pandas but if you do this book will help you make a seamless transition The many practical examples and real world datasets are available on GitHub so you can easily follow along Process data from CSV Parquet spreadsheets databases and the cloud Get a solid understanding of Expressions the building blocks of every query Handle complex data types including text time and nested structures Use both eager and lazy APIs and know when to use each Visualize your data with Altair hvPlot plotnine and Great Tables Extend Polars with your own Python functions and Rust plugins Leverage GPU acceleration to boost performance even further [Media Management and Artificial Intelligence](#) Alex Connock,2022-11-18 This cutting edge textbook examines contemporary media business models in the context of Artificial Intelligence AI and digital transformation AI has dramatically impacted media production and distribution from recommendation engines to synthetic humans from video to text tools to natural language models AI is really the change agent of the media industry

answered a natural language generation model when AI was asked about the subject of this book It will open incredible opportunities This book seeks to explore them The media is examined through four sections Principles maps business models and the key tools of AI Platforms covers distribution channels in Games Streamers Social Networks Broadcast and Digital Publishing Producers covers the engines of content making including Scripted Entertainment Factual Content Marketing Creators and Music Finally Pioneers covers emerging sectors of Podcasting Esports the Metaverse and other AI driven developments Then in each chapter a standard value creation model is applied mapping a single sector through development production distribution and monetisation Diverse case studies are analysed from India Nigeria South Korea South Africa France the Netherlands the US the UK Denmark and China around creative entrepreneurship revenue models profit drivers rights and emerging AI tools Questions are provided for each case whilst chapter summaries cement learning Applied and technology focused this text offers core reading for advanced undergraduate and postgraduates studying Media Management or the relationship between Entertainment Media and Technology Online resources include chapter by chapter PowerPoint slides and an Instructor s Manual with further exercises and case studies

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