Nvidia

Magnus Ekman

Let's Discover Nvidia: The Vision of Jensen Huang TrendSettingKnowledge, Let's Discover Nvidia: The Vision of Jensen Huang is a comprehensive exploration into the meteoric rise of Nvidia Corporation and the pioneering spirit of its founder, Jensen Huang. This book delves into the origins of Nvidia, tracing its journey from a small startup to a global powerhouse in graphics processing technology and artificial intelligence. Through meticulous research and analysis, the narrative uncovers the strategic decisions, technological breakthroughs, and visionary leadership that have shaped Nvidia's trajectory and its profound impact on the tech industry. Starting with the early days of Nvidia, the book provides an intimate look at the challenges and triumphs encountered in developing the first GPUs, setting the stage for a revolution in gaming and computer graphics. It examines the evolution of Nvidia's product line, from the iconic GeForce series to the groundbreaking RTX technology, highlighting the company's role in advancing real-time ray tracing and AI-powered graphics. The narrative then shifts to Jensen Huang's foresight in recognizing the potential of AI and machine learning, pivoting Nvidia's focus towards these emergent technologies. It explores the development of CUDA, Nvidia's compute architecture that unlocked the parallel processing capabilities of GPUs, catalyzing the growth of deep learning and neural networks. As the story unfolds, Let's Discover Nvidia ventures into the realms of autonomous vehicles, healthcare, cloud computing, and the metaverse, illustrating how Nvidia's innovations have transcended beyond gaming into diverse industries. The book provides insights into Nvidia's strategic acquisitions, partnerships, and the cultivation of a robust ecosystem that supports developers, researchers, and creators worldwide. Beyond technology, the book delves into the corporate ethos of Nvidia, shedding light on its culture of innovation, commitment to sustainability, and the leadership philosophies of Jensen Huang. It

provides a nuanced portrait of a leader who has navigated the company through rapid technological changes while maintaining a steadfast vision for the future. In its concluding chapters, Let's Discover Nvidia speculates on the future directions of Nvidia and the evolving landscape of the tech industry, pondering the next frontiers in AI, computing, and digital experiences that Nvidia aims to pioneer. Disclaimer: This book, Let's Discover Nvidia: The Vision of Jensen Huang, is a work of independent research and analysis. It is not an official publication of Nvidia Corporation or endorsed by Jensen Huang. Any views or opinions expressed in this book are those of the author(s) and do not necessarily reflect the views or opinions of Nvidia Corporation or Jensen Huang.

   Nvidia Gerard Blokdyk,2017-11-05 Is a fully trained team formed, supported, and committed to work on the Nvidia improvements? Who needs to know about Nvidia ? How will you know that the Nvidia project has been successful? What are the business goals Nvidia is aiming to achieve? Is the Nvidia process severely broken such that a re-design is necessary? This best-selling Nvidia self-assessment will make you the credible Nvidia domain veteran by revealing just what you need to know to be fluent and ready for any Nvidia challenge. How do I reduce the effort in the Nvidia work to be done to get problems solved? How can I ensure that plans of action include every Nvidia task and that every Nvidia outcome is in place? How will I save time investigating strategic and tactical options and ensuring Nvidia opportunity costs are low? How can I deliver tailored Nvidia advise instantly with structured going-forward plans? There's no better guide through these mind-expanding questions than acclaimed best-selling author Gerard Blokdyk. Blokdyk ensures all Nvidia essentials are covered, from every angle: the Nvidia self-assessment shows succinctly and clearly that what needs to be clarified to organize the business/project activities and processes so that Nvidia outcomes are achieved. Contains extensive criteria grounded in past and current successful projects and activities

by experienced Nvidia practitioners. Their mastery, combined with the uncommon elegance of the self-assessment, provides its superior value to you in knowing how to ensure the outcome of any efforts in Nvidia are maximized with professional results. Your purchase includes access to the $249 value Nvidia self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. Your exclusive instant access details can be found in your book.

Ray Tracing Gems Eric Haines,Tomas Akenine-Möller,2019-02-25 This book is a must-have for anyone serious about rendering in real time. With the announcement of new ray tracing APIs and hardware to support them, developers can easily create real-time applications with ray tracing as a core component. As ray tracing on the GPU becomes faster, it will play a more central role in real-time rendering. Ray Tracing Gems provides key building blocks for developers of games, architectural applications, visualizations, and more. Experts in rendering share their knowledge by explaining everything from nitty-gritty techniques that will improve any ray tracer to mastery of the new capabilities of current and future hardware. What you'll learn: The latest ray tracing techniques for developing real-time applications in multiple domains Guidance, advice, and best practices for rendering applications with Microsoft DirectX Raytracing (DXR) How to implement high-performance graphics for interactive visualizations, games, simulations, and more Who this book is for:Developers who are looking to leverage the latest APIs and GPU technology for real-time rendering and ray tracing Students looking to learn about best practices in these areas Enthusiasts who want to understand and experiment with their new GPUs

NVIDIA Graphics Giant RTX 3090 Radio Hits Show,Mohamed Farag,2020-09-03 Translated articles, journalists weekly, shipping news book This new Ge Forces is based on the Ampere architecture,

already used by some Nvidia chips intended for the professional market (Orin for autonomous vehicles and A 100 for servers), but in very different configurations Electronics, NVIDIA, video games Twitter Facebook linked to email FLIP BOARD Nvidia unveils new Ge Force, including Titanic RTX 3090 Nvidia unveils new Ge Force, including Titanic RTX 3090 (c) Nvidia

<u>Deployment and Usage Guide for Running AI Workloads on Red Hat OpenShift and NVIDIA DGX Systems with IBM Spectrum Scale</u> Simon Lorenz,Gero Schmidt,Thomas Schoenemeyer,IBM Redbooks,2020-11-30 This IBM® Redpaper publication describes the architecture, installation procedure, and results for running a typical training application that works on an automotive data set in an orchestrated and secured environment that provides horizontal scalability of GPU resources across physical node boundaries for deep neural network (DNN) workloads. This paper is mostly relevant for systems engineers, system administrators, or system architects that are responsible for data center infrastructure management and typical day-to-day operations such as system monitoring, operational control, asset management, and security audits. This paper also describes IBM Spectrum® LSF® as a workload manager and IBM Spectrum Discover as a metadata search engine to find the right data for an inference job and automate the data science workflow. With the help of this solution, the data location, which may be on different storage systems, and time of availability for the AI job can be fully abstracted, which provides valuable information for data scientists.

The NVIDIA Revolution Justin E Rosales,2024-02-24 Book Description: Dive into the captivating world of NVIDIA with The NVIDIA Revolution: Unleashing the Power of Innovation. Embark on a thrilling journey through the heart of Silicon Valley's tech dominance and Wall Street's stock market triumph as we explore the remarkable rise of NVIDIA and its enduring impact on industries, economies, and investors worldwide. Benefit 1: Insider Insights: Gain exclusive access to insider insights and expert

analysis on NVIDIA's evolution, technological innovations, and strategic initiatives, offering you a unique perspective on the company's trajectory and growth potential. Benefit 2: Investment Opportunities: Discover valuable investment opportunities and strategic insights to navigate the dynamic landscape of tech investing with confidence and clarity, empowering you to capitalize on NVIDIA's continued success and unlock potential returns. Benefit 3: Technological Prowess: Explore NVIDIA's technological prowess and groundbreaking innovations in areas such as artificial intelligence, gaming, data centers, and autonomous vehicles, offering you a front-row seat to the future of technology and its transformative impact on society. Benefit 4: Market Analysis: Gain a comprehensive understanding of NVIDIA's financial performance, market positioning, and competitive landscape, enabling you to make informed decisions and stay ahead of market trends in the fast-paced world of tech investing. Benefit 5: Inspiration and Vision: Be inspired by NVIDIA's journey from humble beginnings to global prominence, and gain valuable insights into the visionary leadership, strategic foresight, and relentless pursuit of excellence that have fueled NVIDIA's success story. Whether you're an investor seeking lucrative opportunities in the stock market, a tech enthusiast fascinated by the latest innovations, or a business leader looking to glean insights from NVIDIA's strategic approach, The NVIDIA Revolution is your ultimate guide to unlocking the power of innovation, seizing investment opportunities, and navigating the ever-changing landscape of technology and finance. Get ready to embark on an exhilarating adventure into the heart of NVIDIA's revolution and discover the keys to success in the digital age!

  General-Purpose Graphics Processor Architectures Tor M. Aamodt,Wilson Wai Lun Fung,Timothy G. Rogers,2018-05-21 Originally developed to support video games, graphics processor units (GPUs) are now increasingly used for general-purpose (non-graphics) applications ranging from machine learning

to mining of cryptographic currencies. GPUs can achieve improved performance and efficiency versus central processing units (CPUs) by dedicating a larger fraction of hardware resources to computation. In addition, their general-purpose programmability makes contemporary GPUs appealing to software developers in comparison to domain-specific accelerators. This book provides an introduction to those interested in studying the architecture of GPUs that support general-purpose computing. It collects together information currently only found among a wide range of disparate sources. The authors led development of the GPGPU-Sim simulator widely used in academic research on GPU architectures. The first chapter of this book describes the basic hardware structure of GPUs and provides a brief overview of their history. Chapter 2 provides a summary of GPU programming models relevant to the rest of the book. Chapter 3 explores the architecture of GPU compute cores. Chapter 4 explores the architecture of the GPU memory system. After describing the architecture of existing systems, Chapters \ref{ch03} and \ref{ch04} provide an overview of related research. Chapter 5 summarizes cross-cutting research impacting both the compute core and memory system. This book should provide a valuable resource for those wishing to understand the architecture of graphics processor units (GPUs) used for acceleration of general-purpose applications and to those who want to obtain an introduction to the rapidly growing body of research exploring how to improve the architecture of these GPUs.

   Learning Deep Learning Magnus Ekman,2021-07-19 NVIDIA's Full-Color Guide to Deep Learning: All You Need to Get Started and Get Results To enable everyone to be part of this historic revolution requires the democratization of AI knowledge and resources. This book is timely and relevant towards accomplishing these lofty goals. -- From the foreword by Dr. Anima Anandkumar, Bren Professor, Caltech, and Director of ML Research, NVIDIA Ekman uses a learning technique that in our experience

has proven pivotal to success—asking the reader to think about using DL techniques in practice. His straightforward approach is refreshing, and he permits the reader to dream, just a bit, about where DL may yet take us. -- From the foreword by Dr. Craig Clawson, Director, NVIDIA Deep Learning Institute Deep learning (DL) is a key component of today's exciting advances in machine learning and artificial intelligence. Learning Deep Learning is a complete guide to DL. Illuminating both the core concepts and the hands-on programming techniques needed to succeed, this book is ideal for developers, data scientists, analysts, and others--including those with no prior machine learning or statistics experience. After introducing the essential building blocks of deep neural networks, such as artificial neurons and fully connected, convolutional, and recurrent layers, Magnus Ekman shows how to use them to build advanced architectures, including the Transformer. He describes how these concepts are used to build modern networks for computer vision and natural language processing (NLP), including Mask R-CNN, GPT, and BERT. And he explains how a natural language translator and a system generating natural language descriptions of images. Throughout, Ekman provides concise, well-annotated code examples using TensorFlow with Keras. Corresponding PyTorch examples are provided online, and the book thereby covers the two dominating Python libraries for DL used in industry and academia. He concludes with an introduction to neural architecture search (NAS), exploring important ethical issues and providing resources for further learning. Explore and master core concepts: perceptrons, gradient-based learning, sigmoid neurons, and back propagation See how DL frameworks make it easier to develop more complicated and useful neural networks Discover how convolutional neural networks (CNNs) revolutionize image classification and analysis Apply recurrent neural networks (RNNs) and long short-term memory (LSTM) to text and other variable-length sequences Master NLP with sequence-to-sequence networks and the Transformer architecture Build

applications for natural language translation and image captioning NVIDIA's invention of the GPU sparked the PC gaming market. The company's pioneering work in accelerated computing--a supercharged form of computing at the intersection of computer graphics, high-performance computing, and AI--is reshaping trillion-dollar industries, such as transportation, healthcare, and manufacturing, and fueling the growth of many others. Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details.

CUDA by Example Jason Sanders,Edward Kandrot,2011 The complete guide to developing high-performance applications with CUDA - written by CUDA development team members, and supported by NVIDIA * *Breakthrough techniques for using the power of graphics processors to create highperformance general purpose applications. *Packed with realistic, C-based examples -- from basic to advanced. *Covers one of today's most highly-anticipated new technologies for software development wherever performance is crucial: finance, design automation, science, simulation, graphics, and beyond. NVIDIA graphics processors have immense computational power. With NVIDIA's breakthrough CUDA software platform, that power can be put to work in virtually any type of software development that requires exceptionally high performance, from finance to physics. Now, for the first time, two of NVIDIA's senior CUDA developers thoroughly introduce the platform, and show developers exactly how to make the most of it. CUDA C by Example is the first book on CUDA development for professional programmers - and the only book created with NVIDIA's direct involvement. Concise and practical, it focuses on presenting proven techniques and concrete example code for building high-performance parallelized CUDA programs with C. Programmers familiar with C will need no other skills or experience to get started - making high-performance programming more accessible than it's ever been before.

Nvidia System Tools Gerardus Blokdyk,2018-05-03 What business benefits will Nvidia System Tools goals deliver if achieved? How do you determine the key elements that affect Nvidia System Tools workforce satisfaction? how are these elements determined for different workforce groups and segments? Who will be responsible for documenting the Nvidia System Tools requirements in detail? How can you negotiate Nvidia System Tools successfully with a stubborn boss, an irate client, or a deceitful coworker? How can the value of Nvidia System Tools be defined? Defining, designing, creating, and implementing a process to solve a challenge or meet an objective is the most valuable role... In EVERY group, company, organization and department. Unless you are talking a one-time, single-use project, there should be a process. Whether that process is managed and implemented by humans, AI, or a combination of the two, it needs to be designed by someone with a complex enough perspective to ask the right questions. Someone capable of asking the right questions and step back and say, 'What are we really trying to accomplish here? And is there a different way to look at it?' This Self-Assessment empowers people to do just that - whether their title is entrepreneur, manager, consultant, (Vice-)President, CxO etc... - they are the people who rule the future. They are the person who asks the right questions to make Nvidia System Tools investments work better. This Nvidia System Tools All-Inclusive Self-Assessment enables You to be that person. All the tools you need to an in-depth Nvidia System Tools Self-Assessment. Featuring new and updated case-based questions, organized into seven core areas of process design, this Self-Assessment will help you identify areas in which Nvidia System Tools improvements can be made. In using the questions you will be better able to: - diagnose Nvidia System Tools projects, initiatives, organizations, businesses and processes using accepted diagnostic standards and practices - implement evidence-based best practice strategies aligned with overall goals - integrate recent advances in Nvidia System Tools and process design

strategies into practice according to best practice guidelines Using a Self-Assessment tool known as the Nvidia System Tools Scorecard, you will develop a clear picture of which Nvidia System Tools areas need attention. Your purchase includes access details to the Nvidia System Tools self-assessment dashboard download which gives you your dynamically prioritized projects-ready tool and shows your organization exactly what to do next. Your exclusive instant access details can be found in your book.

GPU Computing Gems Emerald Edition ,2011-01-13 GPU Computing Gems Emerald Edition offers practical techniques in parallel computing using graphics processing units (GPUs) to enhance scientific research. The first volume in Morgan Kaufmann's Applications of GPU Computing Series, this book offers the latest insights and research in computer vision, electronic design automation, and emerging data-intensive applications. It also covers life sciences, medical imaging, ray tracing and rendering, scientific simulation, signal and audio processing, statistical modeling, video and image processing. This book is intended to help those who are facing the challenge of programming systems to effectively use GPUs to achieve efficiency and performance goals. It offers developers a window into diverse application areas, and the opportunity to gain insights from others' algorithm work that they may apply to their own projects. Readers will learn from the leading researchers in parallel programming, who have gathered their solutions and experience in one volume under the guidance of expert area editors. Each chapter is written to be accessible to researchers from other domains, allowing knowledge to cross-pollinate across the GPU spectrum. Many examples leverage NVIDIA's CUDA parallel computing architecture, the most widely-adopted massively parallel programming solution. The insights and ideas as well as practical hands-on skills in the book can be immediately put to use. Computer programmers, software engineers, hardware engineers, and computer science

students will find this volume a helpful resource. For useful source codes discussed throughout the book, the editors invite readers to the following website: ... Covers the breadth of industry from scientific simulation and electronic design automation to audio / video processing, medical imaging, computer vision, and more Many examples leverage NVIDIA's CUDA parallel computing architecture, the most widely-adopted massively parallel programming solution Offers insights and ideas as well as practical hands-on skills you can immediately put to use

   Nvidia Shield TV Pro User Guide Kingston Jons,2020-01-14 MarketingIf you're new to Nividia products, especially the Nividia Tv Pro series, there are many things you should know about.This is an easy reference guide to using your app Nividia TV pro-- to the max!After unboxing your shiny new Nividia TV pro, there's a whole lot to learn about the device. And this handy book will help you get the maximum bang for your Nividia TV pro.The tips and tricks in this guide will help you maximize the ownership of your device.. You will learn about the best settings you need to change on your brand new Nividia TV pro to make it better.In this Guide, you will see all our published tips, tricks, and tutorials over time since the product was announced.This is a must-have book to get for any Nividia TV pro who wants to take their device to the next level and get more out of their tablet! In this guide you will learn how to: SETT UP NVIDIA SHIELD TV PROCONNECT YOUR CONTROLLERUSE SHIELD CONTROLLERTURN OFF SHIELD CONTROLLER1ENABLE YOUR SHIELD TO TURN ON AND OFF YOUR TVSWITCH THE ACCOUNT ON YOUR SHIELDHow to Use A Micro SD CardHOW TO USE USB STORAGE DEVICESTRANSFER CONTENT TO SHIELDCONFIGURE GAMESTREAM PCAnd so Much more

   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

Designing Scientific Applications on GPUs Raphael Couturier,2013-11-21 Many of today's complex scientific applications now require a vast amount of computational power. General purpose graphics processing units (GPGPUs) enable researchers in a variety of fields to benefit from the computational power of all the cores available inside graphics cards. Understand the Benefits of Using GPUs for Many Scientific Applications Designing Scientific Applications on GPUs shows you how to use GPUs for applications in diverse scientific fields, from physics and mathematics to computer science. The book explains the methods necessary for designing or porting your scientific application on GPUs. It will improve your knowledge about image processing, numerical applications, methodology to design efficient applications, optimization methods, and much more. Everything You Need to Design/Port Your Scientific Application on GPUs The first part of the book introduces the GPUs and Nvidia's CUDA programming model, currently the most widespread environment for designing GPU applications. The second part focuses on significant image processing applications on GPUs. The third part presents general methodologies for software development on GPUs and the fourth part describes the use of GPUs for addressing several optimization problems. The fifth part covers many numerical applications,

including obstacle problems, fluid simulation, and atomic physics models. The last part illustrates agent-based simulations, pseudorandom number generation, and the solution of large sparse linear systems for integer factorization. Some of the codes presented in the book are available online.

GPU Gems 2 Matt Pharr,Randima Fernando,2005 More useful techniques, tips, and tricks for harnessing the power of the new generation of powerful GPUs.

The CUDA Handbook Nicholas Wilt,2013-06-11 The CUDA Handbook begins where CUDA by Example (Addison-Wesley, 2011) leaves off, discussing CUDA hardware and software in greater detail and covering both CUDA 5.0 and Kepler. Every CUDA developer, from the casual to the most sophisticated, will find something here of interest and immediate usefulness. Newer CUDA developers will see how the hardware processes commands and how the driver checks progress; more experienced CUDA developers will appreciate the expert coverage of topics such as the driver API and context migration, as well as the guidance on how best to structure CPU/GPU data interchange and synchronization. The accompanying open source code–more than 25,000 lines of it, freely available at www.cudahandbook.com–is specifically intended to be reused and repurposed by developers. Designed to be both a comprehensive reference and a practical cookbook, the text is divided into the following three parts: Part I, Overview, gives high-level descriptions of the hardware and software that make CUDA possible. Part II, Details, provides thorough descriptions of every aspect of CUDA, including Memory Streams and events Models of execution, including the dynamic parallelism feature, new with CUDA 5.0 and SM 3.5 The streaming multiprocessors, including descriptions of all features through SM 3.5 Programming multiple GPUs Texturing The source code accompanying Part II is presented as reusable microbenchmarks and microdemos, designed to expose specific hardware characteristics or highlight specific use cases. Part III, Select Applications, details specific families of

CUDA applications and key parallel algorithms, including Streaming workloads Reduction Parallel prefix sum (Scan) N-body Image Processing These algorithms cover the full range of potential CUDA applications.

Accelerating MATLAB with GPU Computing Jung W. Suh,Youngmin Kim,2013-11-18 Beyond simulation and algorithm development, many developers increasingly use MATLAB even for product deployment in computationally heavy fields. This often demands that MATLAB codes run faster by leveraging the distributed parallelism of Graphics Processing Units (GPUs). While MATLAB successfully provides high-level functions as a simulation tool for rapid prototyping, the underlying details and knowledge needed for utilizing GPUs make MATLAB users hesitate to step into it. Accelerating MATLAB with GPUs offers a primer on bridging this gap. Starting with the basics, setting up MATLAB for CUDA (in Windows, Linux and Mac OS X) and profiling, it then guides users through advanced topics such as CUDA libraries. The authors share their experience developing algorithms using MATLAB, C++ and GPUs for huge datasets, modifying MATLAB codes to better utilize the computational power of GPUs, and integrating them into commercial software products. Throughout the book, they demonstrate many example codes that can be used as templates of C-MEX and CUDA codes for readers' projects. Download example codes from the publisher's website: http://booksite.elsevier.com/9780124080805/ Shows how to accelerate MATLAB codes through the GPU for parallel processing, with minimal hardware knowledge Explains the related background on hardware, architecture and programming for ease of use Provides simple worked examples of MATLAB and CUDA C codes as well as templates that can be reused in real-world projects

Programming Massively Parallel Processors David B. Kirk,Wen-mei W. Hwu,2016-11-24 Programming Massively Parallel Processors: A Hands-on Approach, Third Edition shows both student

and professional alike the basic concepts of parallel programming and GPU architecture, exploring, in detail, various techniques for constructing parallel programs. Case studies demonstrate the development process, detailing computational thinking and ending with effective and efficient parallel programs. Topics of performance, floating-point format, parallel patterns, and dynamic parallelism are covered in-depth. For this new edition, the authors have updated their coverage of CUDA, including coverage of newer libraries, such as CuDNN, moved content that has become less important to appendices, added two new chapters on parallel patterns, and updated case studies to reflect current industry practices. Teaches computational thinking and problem-solving techniques that facilitate high-performance parallel computing Utilizes CUDA version 7.5, NVIDIA's software development tool created specifically for massively parallel environments Contains new and updated case studies Includes coverage of newer libraries, such as CuDNN for Deep Learning

Hands-On GPU-Accelerated Computer Vision with OpenCV and CUDA Bhaumik Vaidya,2018-09-26 Discover how CUDA allows OpenCV to handle complex and rapidly growing image data processing in computer and machine vision by accessing the power of GPU Key FeaturesExplore examples to leverage the GPU processing power with OpenCV and CUDAEnhance the performance of algorithms on embedded hardware platformsDiscover C++ and Python libraries for GPU accelerationBook Description Computer vision has been revolutionizing a wide range of industries, and OpenCV is the most widely chosen tool for computer vision with its ability to work in multiple programming languages. Nowadays, in computer vision, there is a need to process large images in real time, which is difficult to handle for OpenCV on its own. This is where CUDA comes into the picture, allowing OpenCV to leverage powerful NVDIA GPUs. This book provides a detailed overview of integrating OpenCV with CUDA for practical applications. To start with, you'll understand GPU

programming with CUDA, an essential aspect for computer vision developers who have never worked with GPUs. You'll then move on to exploring OpenCV acceleration with GPUs and CUDA by walking through some practical examples. Once you have got to grips with the core concepts, you'll familiarize yourself with deploying OpenCV applications on NVIDIA Jetson TX1, which is popular for computer vision and deep learning applications. The last chapters of the book explain PyCUDA, a Python library that leverages the power of CUDA and GPUs for accelerations and can be used by computer vision developers who use OpenCV with Python. By the end of this book, you'll have enhanced computer vision applications with the help of this book's hands-on approach. What you will learnUnderstand how to access GPU device properties and capabilities from CUDA programsLearn how to accelerate searching and sorting algorithmsDetect shapes such as lines and circles in imagesExplore object tracking and detection with algorithmsProcess videos using different video analysis techniques in Jetson TX1Access GPU device properties from the PyCUDA programUnderstand how kernel execution worksWho this book is for This book is a go-to guide for you if you are a developer working with OpenCV and want to learn how to process more complex image data by exploiting GPU processing. A thorough understanding of computer vision concepts and programming languages such as C++ or Python is expected.

IoT Projects with NVIDIA Jetson Nano Agus Kurniawan,2021 Explore the capabilities of the NVIDIA Jetson Nano, an IoT device designed to perform computations like a computer desktop. This book will show you how to build your first project and optimize your devices, programs, and daily activities with the AI computation abilities of the Jetson Nano. This board consists of CPU Quad-core ARM A57 @ 1.43 GHz and GPU 128-core Maxwell. With this hardware specification, the board can run multiple neural networks in parallel for complex AI applications. With the integrated sensor and actuators, this board

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