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Algorithms and Architectures for Parallel Processing Yang Xiang, Ivan Stojmenovic, Bernady O. Apduhan, Guojun Wang, Koji Nakano, Albert Y. Zomaya, 2012-09-04 The two volume set LNCS 7439 and 7440 comprises the proceedings of the 12th International Conference on Algorithms and Architectures for Parallel Processing ICA3PP 2012 as well as some workshop papers of the CDCN 2012 workshop which was held in conjunction with this conference. The 40 regular paper and 26 short papers included in these proceedings were carefully reviewed and selected from 156 submissions. The CDCN workshop attracted a total of 19 original submissions 8 of which are included in part II of these proceedings. The papers cover many dimensions of parallel algorithms and architectures encompassing fundamental theoretical approaches practical experimental results and commercial components and systems

Advances in Nature-Inspired Computing and Applications Shishir Kumar Shandilya, Smita Shandilya, Atulya K. Nagar, 2018-08-29 This book contains research contributions from leading global scholars in nature inspired computing. It includes comprehensive coverage of each respective topic while also highlighting recent and future trends. The contributions provide readers with a snapshot of the state of the art in the field of nature inspired computing and its application. This book has focus on the current researches while highlighting the empirical results along with theoretical concepts to provide a comprehensive reference for students researchers scholars professionals and practitioners in the field of Advanced Artificial Intelligence Nature Inspired Algorithms and Soft Computing

GPU

Parallel Program Development Using CUDA Tolga Soyata, 2018-01-19 GPU Parallel Program Development using CUDA teaches GPU programming by showing the differences among different families of GPUs. This approach prepares the reader for the next generation and future generations of GPUs. The book emphasizes concepts that will remain relevant for a long time rather than concepts that are platform specific. At the same time the book also provides platform dependent explanations that are as valuable as generalized GPU concepts. The book consists of three separate parts: it starts by explaining parallelism using CPU multi-threading in Part I. A few simple programs are used to demonstrate the concept of dividing a large task into multiple parallel sub-tasks and mapping them to CPU threads. Multiple ways of parallelizing the same task are analyzed and their pros and cons are studied in terms of both core and memory operation. Part II of the book introduces GPU massive parallelism. The same programs are parallelized on multiple Nvidia GPU platforms and the same performance analysis is repeated. Because the core and memory structures of CPUs and GPUs are different the results differ in interesting ways. The end goal is to make programmers aware of all the good ideas as well as the bad ideas so readers can apply the good ideas and avoid the bad ideas in their own programs. Part III of the book provides a pointer for readers who want to expand their horizons. It provides a brief introduction to popular CUDA libraries such as cuBLAS, cuFFT, NPP and Thrust, the OpenCL programming language, an overview of GPU programming using other programming languages and API libraries such as Python, OpenCV, OpenGL and Apple's Swift and Metal, and the deep learning library cuDNN

Spatial

Gems, Volume 1 John Krumm, Andreas Züfle, Cyrus Shahabi, 2022-08-08 This book presents fundamental new techniques for understanding and processing geospatial data. These spatial gems articulate and highlight insightful ideas that often remain unstated in graduate textbooks and which are not the focus of research papers. They teach us how to do something useful with spatial data in the form of algorithms, code or equations. Unlike a research paper, Spatial Gems Volume 1 does not focus on "Look what we have done" but rather shows "Look what YOU can do". With contributions from researchers at the forefront of the field, this volume occupies a unique position in the literature by serving graduate students, professional researchers, professors and computer developers in the field alike.

Computer Architecture John L. Hennessy, David A. Patterson, Krste Asanović, 2012 The computing world is in the middle of a revolution: mobile clients and cloud computing have emerged as the dominant paradigms driving programming and hardware innovation. This book focuses on the shift, exploring the ways in which software and technology in the cloud are accessed by cell phones, tablets, laptops and more.

Artificial Intelligence in Business Pavankumar Gurazada & Seema Gupta, Artificial Intelligence in Business is transforming the way organizations operate, driving innovation, increasing efficiency and enabling smarter data-driven decision making. Yet for many professionals and students, the gap between complex technical concepts and practical business applications can feel overwhelming. This book bridges that gap with clarity, relevance and purpose. Designed for MBA students, business leaders and aspiring AI practitioners, Artificial Intelligence in Business cuts through the hype to provide a grounded, accessible and actionable guide to real-world AI. From foundational principles like machine learning and deep learning to advanced applications in marketing, finance, supply chain and HR, each chapter offers practical insights supported by real-world use cases and code implementations. Whether you're aiming to enhance customer engagement, streamline operations or manage risk more effectively, this book equips you with the knowledge and tools to apply AI strategically in a business context.

Programming in Parallel with CUDA Richard Ansorge, 2022-06-02 CUDA is now the dominant language used for programming GPUs, one of the most exciting hardware developments of recent decades. With CUDA, you can use a desktop PC for work that would have previously required a large cluster of PCs or access to a HPC facility. As a result, CUDA is increasingly important in scientific and technical computing across the whole STEM community, from medical physics and financial modelling to big data applications and beyond. This unique book on CUDA draws on the author's passion for and long experience of developing and using computers to acquire and analyse scientific data. The result is an innovative text featuring a much richer set of examples than found in any other comparable book on GPU computing. Much attention has been paid to the C coding style, which is compact, elegant and efficient. A code base of examples and supporting material is available online, which readers can build on for their own projects.

Electronic Design, *Real-time Image Processing* ... , 2006 *Self-taught Learning* Rajat Raina, 2009 **Business 2.0** , 2004-07 *PC Gamer* , 2008 *Wall Street & Technology* , 2008 *Popular Science* , 1950 *Journal of Graphics Tools* , 2007 *The VAR Implementation Handbook* Greg N. Gregoriou, 2009-03-15 flap For

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