

## **GPU Computing Gems Emerald Edition** (**Applications of GPU Computing Series**)



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# GPU Computing Gems Emerald Edition (Applications of GPU Computing Series)

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"...the perfect companion to *Programming Massively Parallel Processors* by Hwu & Kirk." -Nicolas Pinto, Research Scientist at Harvard & MIT, NVIDIA Fellow 2009-2010

Graphics processing units (GPUs) can do much more than render graphics. Scientists and researchers increasingly look to GPUs to improve the efficiency and performance of computationally-intensive experiments across a range of disciplines.

GPU Computing Gems: Emerald Edition brings their techniques to you, showcasing GPU-based solutions including:

- Black hole simulations with CUDA
- GPU-accelerated computation and interactive display of molecular orbitals
- Temporal data mining for neuroscience
- GPU -based parallelization for fast circuit optimization
- Fast graph cuts for computer vision
- Real-time stereo on GPGPU using progressive multi-resolution adaptive windows
- GPU image demosaicing
- Tomographic image reconstruction from unordered lines with CUDA
- Medical image processing using GPU -accelerated ITK image filters
- *41 more chapters* of innovative GPU computing ideas, written to be accessible to researchers from any domain

*GPU Computing Gems: Emerald Edition* is the first volume in Morgan Kaufmann's **Applications of GPU Computing Series**, offering the latest insights and research in computer vision, electronic design automation, emerging data-intensive applications, life sciences, medical imaging, ray tracing and rendering, scientific simulation, signal and audio processing, statistical modeling, and video / image processing.

- 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
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