

Sorghum Biochemistry

An Industrial Perspective

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GPU-based Parallel Implementation of Swarm Intelligence Algorithms



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GPU-centered Parallel Implementation of Swarm Intelligence Algorithms combines and covers two emerging areas attracting improved attention and applications: graphics processing units (GPUs) for general-purpose computing (GPGPU) and swarm intelligence. This publication gives a complete and whole picture for interested readers and new comers who'll find many execution algorithms in the publication suitable for immediate use in their projects. Presents a concise but sufficient introduction to general-purpose GPU processing that may help the layman become familiar with this emerging computing technique. Describes implementation information, such as for example parallel models and overall performance metrics, so visitors can easily utilize the ways to accelerate their algorithmic programs. Appeals to readers from the domain of high performance computing (HPC) who will find the relatively adolescent analysis domain of swarm cleverness very interesting. Includes many real-world applications, which may be of great help in deciding whether swarm cleverness algorithms or GPGPU is appropriate for the task at hand. Finally, several typical applications of GPU-based swarm cleverness algorithms are presented. This valuable reference book offers a unique perspective not possible by learning either GPGPU or swarm intelligence alone. This book not merely presents GPGPU in adequate detail, but also contains guidance on the correct implementation of swarm cleverness algorithms on the GPU platform. Additionally, some algorithms could also be used as a starting place for further research. GPU-based implementations of several typical swarm intelligence algorithms such as PSO, FWA, GA, DE, and ACO are provided and having explained the execution details including parallel models, implementation considerations and also efficiency metrics are discussed.



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