



GPU-based Parallel Implementation of Swarm Intelligence Algorithms

Ying Tan

Download now

[Click here](#) if your download doesn't start automatically

GPU-based Parallel Implementation of Swarm Intelligence Algorithms

Ying Tan

GPU-based Parallel Implementation of Swarm Intelligence Algorithms Ying Tan

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

 [Download GPU-based Parallel Implementation of Swarm Intelli ...pdf](#)

 [Read Online GPU-based Parallel Implementation of Swarm Intel ...pdf](#)

Download and Read Free Online GPU-based Parallel Implementation of Swarm Intelligence Algorithms Ying Tan

From reader reviews:

Jonah Masten:

Reading a book tends to be new life style on this era globalization. With reading through you can get a lot of information that could give you benefit in your life. With book everyone in this world can share their idea. Guides can also inspire a lot of people. Lots of author can inspire their particular reader with their story or even their experience. Not only the storyplot that share in the books. But also they write about the information about something that you need illustration. How to get the good score toefl, or how to teach your sons or daughters, there are many kinds of book that you can get now. The authors in this world always try to improve their expertise in writing, they also doing some exploration before they write to the book. One of them is this GPU-based Parallel Implementation of Swarm Intelligence Algorithms.

Dolores Stiger:

The reason? Because this GPU-based Parallel Implementation of Swarm Intelligence Algorithms is an unordinary book that the inside of the publication waiting for you to snap the item but latter it will shock you with the secret that inside. Reading this book adjacent to it was fantastic author who write the book in such remarkable way makes the content interior easier to understand, entertaining means but still convey the meaning entirely. So , it is good for you because of not hesitating having this any more or you going to regret it. This unique book will give you a lot of gains than the other book possess such as help improving your talent and your critical thinking approach. So , still want to hold up having that book? If I were being you I will go to the reserve store hurriedly.

Teresa Jones:

That reserve can make you to feel relax. This kind of book GPU-based Parallel Implementation of Swarm Intelligence Algorithms was colourful and of course has pictures on the website. As we know that book GPU-based Parallel Implementation of Swarm Intelligence Algorithms has many kinds or genre. Start from kids until teens. For example Naruto or Private investigator Conan you can read and think that you are the character on there. Therefore , not at all of book are usually make you bored, any it makes you feel happy, fun and rest. Try to choose the best book for yourself and try to like reading that will.

Jeremy Reed:

What is your hobby? Have you heard which question when you got college students? We believe that that issue was given by teacher on their students. Many kinds of hobby, Every individual has different hobby. And you also know that little person including reading or as examining become their hobby. You should know that reading is very important as well as book as to be the factor. Book is important thing to include you knowledge, except your teacher or lecturer. You get good news or update about something by book. Amount types of books that can you decide to try be your object. One of them are these claims GPU-based Parallel Implementation of Swarm Intelligence Algorithms.

**Download and Read Online GPU-based Parallel Implementation of
Swarm Intelligence Algorithms Ying Tan #IE5WFD7X6CN**

Read GPU-based Parallel Implementation of Swarm Intelligence Algorithms by Ying Tan for online ebook

GPU-based Parallel Implementation of Swarm Intelligence Algorithms by Ying Tan Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read GPU-based Parallel Implementation of Swarm Intelligence Algorithms by Ying Tan books to read online.

Online GPU-based Parallel Implementation of Swarm Intelligence Algorithms by Ying Tan ebook PDF download

GPU-based Parallel Implementation of Swarm Intelligence Algorithms by Ying Tan Doc

GPU-based Parallel Implementation of Swarm Intelligence Algorithms by Ying Tan Mobipocket

GPU-based Parallel Implementation of Swarm Intelligence Algorithms by Ying Tan EPub