



# 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:**

#### **Agnes Higa:**

Why don't make it to be your habit? Right now, try to ready your time to do the important action, like looking for your favorite book and reading a e-book. Beside you can solve your condition; you can add your knowledge by the guide entitled GPU-based Parallel Implementation of Swarm Intelligence Algorithms. Try to make the book GPU-based Parallel Implementation of Swarm Intelligence Algorithms as your friend. It means that it can to be your friend when you really feel alone and beside associated with course make you smarter than ever before. Yeah, it is very fortunated for yourself. The book makes you much more confidence because you can know every thing by the book. So , let me make new experience along with knowledge with this book.

#### **Paul Tirrell:**

As people who live in the particular modest era should be up-date about what going on or facts even knowledge to make all of them keep up with the era which can be always change and move ahead. Some of you maybe will probably update themselves by reading through books. It is a good choice for you but the problems coming to you is you don't know which you should start with. This GPU-based Parallel Implementation of Swarm Intelligence Algorithms is our recommendation to cause you to keep up with the world. Why, as this book serves what you want and want in this era.

#### **Donald Jackson:**

Many people spending their period by playing outside having friends, fun activity using family or just watching TV the entire day. You can have new activity to spend your whole day by reading through a book. Ugh, do you think reading a book can really hard because you have to bring the book everywhere? It all right you can have the e-book, taking everywhere you want in your Mobile phone. Like GPU-based Parallel Implementation of Swarm Intelligence Algorithms which is finding the e-book version. So , why not try out this book? Let's notice.

#### **James McNally:**

What is your hobby? Have you heard this question when you got learners? We believe that that question was given by teacher for their students. Many kinds of hobby, Everyone has different hobby. And you also know that little person including reading or as reading through become their hobby. You need to know that reading is very important along with book as to be the matter. Book is important thing to include you knowledge, except your own personal teacher or lecturer. You will find good news or update concerning something by book. Numerous books that can you choose to use be your object. One of them is GPU-based Parallel Implementation of Swarm Intelligence Algorithms.

**Download and Read Online GPU-based Parallel Implementation of  
Swarm Intelligence Algorithms Ying Tan #CJKU6LI89BS**

## **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**