



Encyclopedia of Parallel Computing

Download now

Click here if your download doesn"t start automatically

Encyclopedia of Parallel Computing

Encyclopedia of Parallel Computing

Containing over 300 entries in an A-Z format, the *Encyclopedia of Parallel Computing* provides easy, intuitive access to relevant information for professionals and researchers seeking access to any aspect within the broad field of parallel computing. Topics for this comprehensive reference were selected, written, and peer-reviewed by an international pool of distinguished researchers in the field. The *Encyclopedia* is broad in scope, covering machine organization, programming languages, algorithms, and applications. Within each area, concepts, designs, and specific implementations are presented. The highly-structured essays in this work comprise synonyms, a definition and discussion of the topic, bibliographies, and links to related literature. Extensive cross-references to other entries within the Encyclopedia support efficient, user-friendly searchers for immediate access to useful information.

Key concepts presented in the *Encyclopedia of Parallel Computing* include; laws and metrics; specific numerical and non-numerical algorithms; asynchronous algorithms; libraries of subroutines; benchmark suites; applications; sequential consistency and cache coherency; machine classes such as clusters, shared-memory multiprocessors, special-purpose machines and dataflow machines; specific machines such as Cray supercomputers, IBM's cell processor and Intel's multicore machines; race detection and auto parallelization; parallel programming languages, synchronization primitives, collective operations, message passing libraries, checkpointing, and operating systems.

Topics covered: Speedup, Efficiency, Isoefficiency, Redundancy, Amdahls law, Computer Architecture Concepts, Parallel Machine Designs, Benmarks, Parallel Programming concepts & design, Algorithms, Parallel applications.

This authoritative reference will be published in two formats: print and online. The online edition features hyperlinks to cross-references and to additional significant research.

Related Subjects: supercomputing, high-performance computing, distributed computing



Read Online Encyclopedia of Parallel Computing ...pdf

Download and Read Free Online Encyclopedia of Parallel Computing

From reader reviews:

Nathan Ware:

Throughout other case, little folks like to read book Encyclopedia of Parallel Computing. You can choose the best book if you appreciate reading a book. As long as we know about how is important a book Encyclopedia of Parallel Computing. You can add expertise and of course you can around the world by a book. Absolutely right, since from book you can know everything! From your country till foreign or abroad you will be known. About simple thing until wonderful thing you may know that. In this era, you can open a book as well as searching by internet device. It is called e-book. You can use it when you feel fed up to go to the library. Let's read.

Dianne Tripp:

Does one one of the book lovers? If so, do you ever feeling doubt when you find yourself in the book store? Aim to pick one book that you just dont know the inside because don't ascertain book by its deal with may doesn't work the following is difficult job because you are afraid that the inside maybe not while fantastic as in the outside appearance likes. Maybe you answer might be Encyclopedia of Parallel Computing why because the wonderful cover that make you consider with regards to the content will not disappoint an individual. The inside or content is usually fantastic as the outside as well as cover. Your reading sixth sense will directly show you to pick up this book.

Stephen Rael:

The book untitled Encyclopedia of Parallel Computing contain a lot of information on it. The writer explains your girlfriend idea with easy method. The language is very easy to understand all the people, so do not necessarily worry, you can easy to read that. The book was authored by famous author. The author will take you in the new time of literary works. It is easy to read this book because you can please read on your smart phone, or gadget, so you can read the book inside anywhere and anytime. In a situation you wish to purchase the e-book, you can start their official web-site and also order it. Have a nice read.

Jennifer Nava:

What is your hobby? Have you heard that question when you got pupils? We believe that that query was given by teacher to the students. Many kinds of hobby, Every person has different hobby. And you know that little person including reading or as reading through become their hobby. You have to know that reading is very important as well as book as to be the point. Book is important thing to provide you knowledge, except your own teacher or lecturer. You will find good news or update regarding something by book. Amount types of books that can you decide to try be your object. One of them is this Encyclopedia of Parallel Computing.

Download and Read Online Encyclopedia of Parallel Computing #X3JYFRAT256

Read Encyclopedia of Parallel Computing for online ebook

Encyclopedia of Parallel Computing 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 Encyclopedia of Parallel Computing books to read online.

Online Encyclopedia of Parallel Computing ebook PDF download

Encyclopedia of Parallel Computing Doc

Encyclopedia of Parallel Computing Mobipocket

Encyclopedia of Parallel Computing EPub