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## **Modeling And Optimization Of Parallel And Distributed Embedded Systems Wiley lee**

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## **Modeling And Optimization Of Parallel**

Provides an analysis of multi-core/many-core based embedded systems to explain the modeling and optimization of parallel embedded systems. Features an application metrics estimation model; Markov modeling for fault tolerance and analysis; and queueing theoretic modeling for performance evaluation.

## **Modeling and Optimization of**

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## **Parallel and Distributed ...**

The emphasis of the book is on the modeling and optimization of emerging parallel and distributed embedded systems in relation to the three key design metrics of performance, power and dependability. Key features: Includes an embedded wireless sensor networks case study to help illustrate the modeling and optimization of distributed embedded ...

## **Modeling and Optimization of Parallel and Distributed ...**

This book introduces the state-of-the-art in research in parallel and distributed embedded systems, which have been enabled by developments in silicon technology, micro-electro-mechanical systems (MEMS), wireless communications, computer networking, and digital electronics. These systems have diverse applications in domains including military and defense, medical, automotive, and unmanned ...

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## **Modeling and Optimization of Parallel and Distributed ...**

The optimization of a computation involving a collection of tensor contractions requires an accurate performance model for the core operation: a single tensor contraction, modeling both disk I/O costs and inter-processor communication costs. In this paper we address the problem of developing a performance model for parallel out-of-core ten-

## **Performance Modeling and Optimization of Parallel Out-of ...**

In this paper, we model and analyze the performance of the pipelined parallel LU-SGS algorithm, present a two-level pipeline (TL-Pipeline) approach using nested OpenMP to further exploit fine-grained parallelisms and mitigate the parallel performance bottlenecks.

## **Performance modeling and optimization of parallel LU-SGS ...**

Modeling and Optimization of Parallel

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## **Modeling and Optimization of Parallel and Distributed ...**

Third, we propose a new energy-performance optimization method, by choosing a pair of frequency and core count to get optimal energy or performance. Finally, we implement eight PARSEC parallel applications to evaluate our model and the optimization method.

## **Energy-Performance Modeling and Optimization of Parallel ...**

performance optimization method, by choosing a pair of frequency and core count to get optimal energy or performance. Finally, we implement eight PARSEC parallel applications to

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evaluate our model and the optimization method. The experiment result confirms that our model predicts NoCs energy and

## **Energy-Performance Modeling and Optimization of Parallel ...**

The comparison reveals the influence of link structures on the orientation accuracy. Finally, with the previously developed kinematic, kinetostatic and dynamic models, a multiobjective optimization problem is formulated to optimize the structural and geometric parameters of the spherical parallel manipulator.

## **Error Modeling and Design Optimization of Parallel ...**

A model and compilation strategy for out-of-core data-parallel programs. In Proc. 5th ACM Symp. Principles and Practice of Parallel Programming, 1995. Google Scholar Digital Library; R. Bordawekar, A. Choudhary, and J. Ramanujam. Automatic optimization of

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communication in out-of-core stencil codes.

## **Performance modeling and optimization of parallel out-of ...**

With the developed model, a multi-objective dimensional optimization method is developed to maximize both the workspace volume and the global stiffness performance of the parallel robot. Artificial intelligence approach based on genetic algorithms is implemented to obtain an optimal combination of structural parameters.

## **Stiffness modeling and optimization of a 3-DOF parallel ...**

and contextualize the auxiliary parallel-type SREs with clear design guidelines. This work focuses on parallel-type auxiliary SRE, based on the pioneering works of Nagaraj [42,43], which, as will be discussed later, allows for decoupled specifications and optimization with respect to the main OTA.

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## **Performance Analysis and Design Optimization of Parallel ...**

Chapter 7 High-Performance Energy-Efficient Multicore-Based Parallel Embedded Computing\* Embedded system design is traditionally power-centric, but there has been a recent shift toward high-performance embedded computing (HPEC) due to the ... - Selection from Modeling and Optimization of Parallel and Distributed Embedded Systems [Book]

## **Modeling and Optimization of Parallel and Distributed ...**

A screw theory based method that is efficient in modeling full Jacobian matrix for parallel mechanisms is used here. Express the angular velocity of the moving platform with respect to the global coordinate system using a vector  $w$ , and the linear velocity of a point in the moving platform that is instantaneously coincident with the origin of the reference coordinate system using a vector  $v_p$ .



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## **Kinematic modeling and optimization of a new ...**

Parallel Implementation and Optimization of Regional Ocean Modeling System (ROMS) Based on Sunway SW26010 Many-Core Processor  
Abstract: Nowadays, the ocean numerical models are gradually developing towards multi-physical process and high resolution, with the increment of measured ocean data and more in-depth research in ocean field.

## **Parallel Implementation and Optimization of Regional Ocean ...**

The emphasis of the book is on the modeling and optimization of emerging parallel and distributed embedded systems in relation to the three key design metrics of performance, power and dependability. Key features: Includes an embedded wireless sensor networks case study to help illustrate the modeling and optimization of distributed embedded ...

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## **Amazon.com: Modeling and Optimization of Parallel and ...**

As a result, a theoretical model of the parallel robot based on the virtual work principle and the deformation superposition principle is formulated for analyzing the stiffness performance. With the developed model, a multi-objective dimensional optimization method is developed to maximize both the workspace volume and the global stiffness performance of the parallel robot.

## **Stiffness modeling and optimization of a 3-DOF parallel ...**

The emphasis of the book is on the modeling and optimization of emerging parallel and distributed embedded systems in relation to the three key design metrics of performance, power and dependability. Key features: Includes an embedded wireless sensor networks case study to help illustrate the modeling and optimization of

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distributed embedded systems.

## **Modeling and Optimization of Parallel and Distributed ...**

Chapter 2 Multicore-Based EWSNs—An Example of Parallel and Distributed Embedded Systems\* Advancements in silicon technology, embedded systems, sensors, micro-electro-mechanical systems, and wireless communications have led to the emergence of ... - Selection from Modeling and Optimization of Parallel and Distributed Embedded Systems [Book]

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