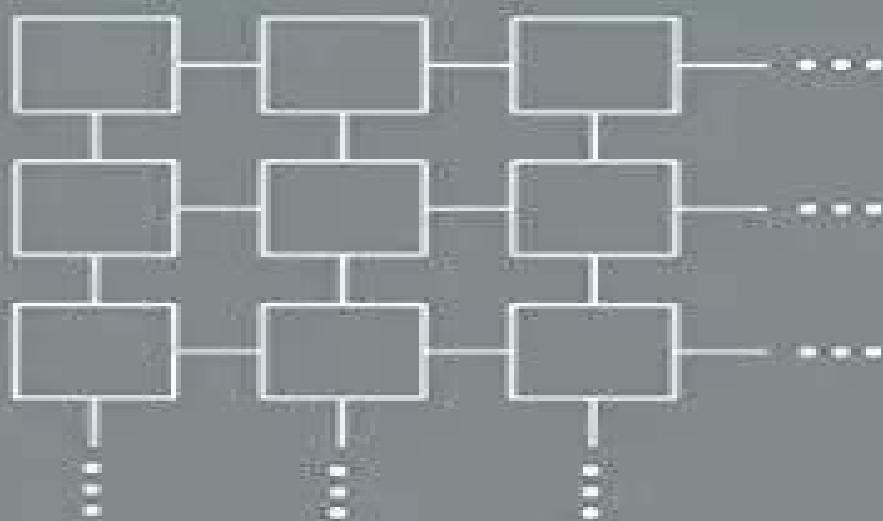


Jorge L. C. Sanz

Editor

# Opportunities and Constraints of Parallel Computing



Springer Verlag

# Opportunities And Constraints Of Parallel Computing

**Shasha Hu**

## **Opportunities And Constraints Of Parallel Computing:**

Opportunities and Constraints of Parallel Computing Jorge L.C. Sanz,2012-12-06 At the initiative of the IBM Almaden Research Center and the National Science Foundation a workshop on Opportunities and Constraints of Parallel Computing was held in San Jose California on December 5 6 1988 The Steering Committee of the workshop consisted of Prof R Karp University of California at Berkeley Prof L Snyder University of Washington at Seattle and Dr J L C Sanz IBM Almaden Research Center This workshop was intended to provide a vehicle for interaction for people in the technical community actively engaged in research on parallel computing One major focus of the workshop was massive parallelism covering theory and models of computing algorithm design and analysis routing architectures and interconnection networks languages and application requirements More conventional issues involving the design and use of parallel computers with a few dozen processors were not addressed at the meeting A driving force behind the realization of this workshop was the need for interaction between theoreticians and practitioners of parallel computation Therefore a group of selected participants from the theory community was invited to attend together with well known colleagues actively involved in parallelism from national laboratories government agencies and industry

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L. C. Sanz,1989-01-01      **Workshop on Opportunities and Constraints of Parallel Computing** A.

Aggarwal,International Business Machines Corporation,1988      *Parallel Processing for Scientific Computing* Michael A. Heroux,Padma Raghavan,Horst D. Simon,2006-01-01 Scientific computing has often been called the third approach to scientific discovery emerging as a peer to experimentation and theory Historically the synergy between experimentation and theory has been well understood experiments give insight into possible theories theories inspire experiments experiments reinforce or invalidate theories and so on As scientific computing has evolved to produce results that meet or exceed the quality of experimental and theoretical results it has become indispensable Parallel processing has been an enabling technology in scientific computing for more than 20 years This book is the first in depth discussion of parallel computing in 10 years it reflects the mix of topics that mathematicians computer scientists and computational scientists focus on to make parallel processing effective for scientific problems Presently the impact of parallel processing on scientific computing varies greatly across disciplines but it plays a vital role in most problem domains and is absolutely essential in many of them Parallel Processing for Scientific Computing is divided into four parts The first concerns performance modeling analysis and optimization the second focuses on parallel algorithms and software for an array of problems common to many modeling and simulation applications the third emphasizes tools and environments that can ease and enhance the process of application development and the fourth provides a sampling of applications that require parallel computing for scaling to solve larger and realistic models that can advance science and engineering This edited volume serves as an up to date reference for researchers and application developers on the state of the art in scientific computing It also serves as an excellent overview

and introduction especially for graduate and senior level undergraduate students interested in computational modeling and simulation and related computer science and applied mathematics aspects

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This book covers the key topic areas of parallel computer architectures operating systems and software environments algorithms and their implementations mathematical software and large scale scientific applications Contained are the papers from contributed talks and poster sessions presented at the conference held in Capri Italy in June 1990 The goals of the conference reflected in this proceedings were to assess the progress made in the 1980 s in parallel computation for scientific applications and to examine trends in large scale computation as we enter the 1990 s

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