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Advanced Computer Architecture: Parallelism, Scalability ...

Advanced computer architecture : parallelism, scalability, programmability / Kai Hwang. Author Hwang, Kai Format Book; Language English; ... xxiv, 770 p. : ill. ; 25 cm. Details Subject(s) Computer architecture Series. McGraw-Hill computer science series. Computer organization and architecture. [More in this series] McGraw-Hill series in ...

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– Kai Hwang, Advanced Computer Architecture : Parallelism, Scalability, Programmability, McGraw-Hill, 1993 – Kai Hwang & F. A. Briggs, Computer Architecture and Parallel Processing, McGraw-Hill, 1989 – Research papers on Computer Design and Architecture from IEEE and ACM conferences, transactions and journals Administrative Issues

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Advanced Computer Architecture

Naresh Jotwani Kai Hwang Is the author of books such as Advanced Computer Architecture, 2E. The E-mail message field is required. Some features of WorldCat will not be available. This two-volume set offers a comprehensive coverage of the field of computer organization and architecture.

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ADVANCED COMPUTER ARCHITECTURE AND PARALLEL PROCESSING

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Computer Architecture, Parallel Processing, Cloud Computing and Network Security. Kai Hwang is presently a Presidential Chair Professor in Computer Science and Engineering at the Chinese University...

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Advanced computer architecture : parallelism, scalability, programmability. Responsibility Kai Hwang. Imprint New York : McGraw-Hill, c1993. Physical description 770 p. Series McGraw-Hill computer science series. Computer organization and architecture McGraw-Hill series in electrical and computer engineering. Computer engineering

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The salient features of the book are as follows:

- Hybrid Elements including topics like Memory organization, Binary representation of data, Computer arithmetic Software for parallel programming, tagged across some chapters through Quick Response (QR) Codes
- Learning objectives tagged across chapters:
- Emphasis on parallelism, scalability and programmability aspects of computer architecture. It presents the analysis of scalability
- Issues related to instruction level parallelism, processor clock speed, and power consumption defined according to the recent developments in processor design
- Inclusion of important topics like processor design, control unit, input and output, parallelis
- erial Bus, Real systems – IBM, Hitachi, Cray, Intel, UltraSparc, Blue Gene (from IBM), Cray XT series, XT5 and XMT, Fujitsu, DEC, MasPar, Tera, Stardent Topical inclusions include:
- Pipelining hazards, data hazards and control hazards
- PCI Bus and PCI Express
- Interconnection networks and cluster computers
- MPI, openMP, PVM, Pthreads
- Multicore processors
- Impact of technology
- Stream processing
- Programming language Chapel
- Updated coverage of recent processors and systems: Intel Pentium IV, Sun UltraSparc, Blue Gene (from IBM), Cray XT Series, XT5 and XMT Useful pedagogical features include the following:
- Plenty of background material on OLC
- Diagrams illustrating the basic concepts: 320
- A good number of case studies and: 6
- Solved problems: 114
- Exercise and review problems at the end of chapters: 251
- Tables: 40
- Solved Examples: 114
- Exercise Problems: 251

This comprehensive new text from author Kai Hwang covers four important aspects of parallel and distributed computing -- principles, technology, architecture, and programming -- and can be used for several upper-level courses.

This text presents the latest technologies for parallel processing and high performance computing. It deals with advanced computer architecture and parallel processing systems and techniques, providing an integrated study of computer hardware and software systems, and the material is suitable for use on courses found in computer science, computer engineering, or electrical engineering departments.

Distributed and Cloud Computing: From Parallel Processing to the Internet of Things offers complete coverage of modern distributed computing technology including clusters, the grid, service-oriented architecture, massively parallel processors, peer-to-peer networking, and cloud computing. It is the first modern, up-to-date distributed systems textbook; it explains how to create high-performance, scalable, reliable systems, exposing the design principles, architecture, and innovative applications of parallel, distributed, and cloud computing systems. Topics covered by this book include: facilitating management, debugging, migration, and disaster recovery through virtualization; clustered systems for research or ecommerce applications; designing systems as web services; and social networking systems using peer-to-peer computing. The principles of cloud computing are discussed using examples from open-source and commercial applications, along with case studies from the leading distributed computing vendors such as Amazon, Microsoft, and Google. Each chapter includes exercises and further reading, with lecture slides and more available online. This book will be ideal for students taking a distributed systems or distributed computing class, as well as for professional system designers and engineers looking for a reference to the latest distributed technologies including cloud, P2P and grid computing. Complete coverage of modern distributed computing technology including clusters, the grid, service-oriented architecture, massively parallel processors, peer-to-peer networking, and cloud computing Includes case studies from the leading distributed computing vendors: Amazon, Microsoft, Google, and more Explains how to use virtualization to facilitate management, debugging, migration, and disaster recovery Designed for undergraduate or graduate students taking a distributed systems course—each chapter includes exercises and further reading, with lecture slides and more available online

This book outlines a set of issues that are critical to all of parallel architecture--communication latency, communication bandwidth, and coordination of cooperative work (across modern designs). It describes the set of techniques available in hardware and in software to address each issues and explore how the various techniques interact.

The definitive guide to successfully integrating social, mobile, Big-Data analytics, cloud and IoT principles and technologies The main goal of this book is to spur the development of effective big-data computing operations on smart clouds that are fully supported by IoT sensing, machine learning and analytics systems. To that end, the authors draw upon their original research and proven track record in the field to describe a practical approach integrating big-data theories,

cloud design principles, Internet of Things (IoT) sensing, machine learning, data analytics and Hadoop and Spark programming. Part 1 focuses on data science, the roles of clouds and IoT devices and frameworks for big-data computing. Big data analytics and cognitive machine learning, as well as cloud architecture, IoT and cognitive systems are explored, and mobile cloud-IoT-interaction frameworks are illustrated with concrete system design examples. Part 2 is devoted to the principles of and algorithms for machine learning, data analytics and deep learning in big data applications. Part 3 concentrates on cloud programming software libraries from MapReduce to Hadoop, Spark and TensorFlow and describes business, educational, healthcare and social media applications for those tools. The first book describing a practical approach to integrating social, mobile, analytics, cloud and IoT (SMACT) principles and technologies Covers theory and computing techniques and technologies, making it suitable for use in both computer science and electrical engineering programs Offers an extremely well-informed vision of future intelligent and cognitive computing environments integrating SMACT technologies Fully illustrated throughout with examples, figures and approximately 150 problems to support and reinforce learning Features a companion website with an instructor manual and PowerPoint slides [www.wiley.com/go/hwangIoT](http://www.wiley.com/go/hwangIoT) Big-Data Analytics for Cloud, IoT and Cognitive Computing satisfies the demand among university faculty and students for cutting-edge information on emerging intelligent and cognitive computing systems and technologies. Professionals working in data science, cloud computing and IoT applications will also find this book to be an extremely useful working resource.

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