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purpose electronic computer was created.V arious changes like advanced in chip manufacturing, better lgorithms have mad e it possible to develop successfully a new set of architectures with

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Kai Hwang is presently a Presidential Chair Professor in Computer Science and Engineering at the Chinese University of Hong Kong (CUHK), Shenzhen, China. He also serves as a Chief Scientist at the Cloud Computing Center, Chinese Academy of Sciences. He has taught at the University of Southern California and at Purdue University for 46 years prior joining CUHK.

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 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.

The theme of HumanCom and EMC is focused on the various aspects of human-centric computing for advances in computer science and its applications, embedded and multimedia computing and provides an opportunity for academic and industry professionals to discuss the latest issues and progress in the area of human-centric computing. And the theme of EMC (Advanced in Embedded and Multimedia Computing) is focused on the various aspects of embedded system, smart grid, cloud and multimedia computing, and it provides an opportunity for academic, industry professionals to discuss the latest issues and progress in the area of embedded and multimedia computing. Therefore this book will be include the various theories and practical applications in human-centric computing and embedded and multimedia computing.

The first textbook to teach students how to build data analytic solutions on large data sets using cloud-based technologies.

Peterson's Graduate Programs in Engineering & Applied Sciences contains a wealth of information on colleges and universities that offer graduate degrees in the fields of Aerospace/Aeronautical Engineering; Agricultural Engineering & Bioengineering; Architectural Engineering, Biomedical Engineering & Biotechnology; Chemical Engineering; Civil & Environmental Engineering; Computer Science & Information Technology; Electrical & Computer Engineering; Energy & Power engineering; Engineering Design; Engineering Physics; Geological, Mineral/Mining, and Petroleum Engineering; Industrial Engineering; Management of Engineering & Technology; Materials Sciences & Engineering; Mechanical Engineering & Mechanics; Ocean Engineering; Paper & Textile Engineering; and Telecommunications. Up-to-date data, collected through Peterson's Annual Survey of Graduate and Professional Institutions, provides valuable information on degree offerings.

professional accreditation, jointly offered degrees, part-time and evening/weekend programs, postbaccalaureate distance degrees, faculty, students, degree requirements, entrance requirements, expenses, financial support, faculty research, and unit head and application contact information. As an added bonus, readers will find a helpful "See Close-Up" link to in-depth program descriptions written by some of these institutions. These Close-Ups offer detailed information about the specific program or department, faculty members and their research, and links to the program Web site. In addition, there are valuable articles on financial assistance and support at the graduate level and the graduate admissions process, with special advice for international and minority students. Another article discusses important facts about accreditation and provides a current list of accrediting agencies.

This book constitutes the refereed proceedings of the First International Conference on E-learning and Games, Edutainment 2006, held in Hangzhou, China in April 2006. The 121 revised full papers and 52 short papers presented together with the abstracts of 3 invited papers and those of the keynote speeches cover a wide range of topics, including e-learning platforms and tools, learning resource management, practice and experience sharing, e-learning standards, and more.

The implementation of wireless sensor networks has wide-ranging applications for monitoring various physical and environmental settings. However, certain limitations with these technologies must be addressed in order to effectively utilize them. The Handbook of Research on Advanced Wireless Sensor Network Applications, Protocols, and Architectures is a pivotal reference source for the latest research on recent innovations and developments in the field of wireless sensors. Examining the advantages and challenges presented by the application of these networks in various areas, this book is ideally designed for academics, researchers, students, and IT developers.

An authoritative source about methods, languages, methodologies and supporting tools for constructing information systems that also provides examples for references models. Its strength is the careful selection of each of the above mentioned components, based on technical merit. The second edition completely revises all articles and features new material on the latest developments in XML & UML. The structure follows the definition of the major components of Enterprise Integration as defined by GERAM (Generalised Enterprise Reference Architecture and Methodology). 1st edition sold about 600 copies since January 2003.

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