Chong-Min Kyung
Sungjoo Yoo *Editors*

Energy-Aware System Design

Algorithms and Architectures

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Energy Aware System Design Algorithms And Architectures By Springer 2011 06

Amir Hossein Jahangir,Ali Movaghar,Hossein Asadi

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Energy-Aware System Design Chong-Min Kyung,Sungjoo Yoo,2011-06-17 Power consumption becomes the most important design goal in a wide range of electronic systems There are two driving forces towards this trend continuing device scaling and ever increasing demand of higher computing power First device scaling continues to satisfy Moore s law via a conventional way of scaling More Moore and a new way of exploiting the vertical integration More than Moore Second mobile and IT convergence requires more computing power on the silicon chip than ever Cell phones are now evolving towards mobile PC PCs and data centers are becoming commodities in house and a must in industry Both supply enabled by device scaling and demand triggered by the convergence trend realize more computation on chip via multi core integration of diverse functionalities on mobile SoCs etc and finally more power consumption incurring power related issues and constraints Energy Aware System Design Algorithms and Architectures provides state of the art ideas for low power design methods from circuit architecture to software level and offers design case studies in three fast growing areas of mobile storage biomedical and security Important topics and features Describes very recent advanced issues and methods for energy aware design at each design level from circuit and architecture to algorithm level and also covering important blocks including low power main memory subsystem and on chip network at architecture level Explains efficient power conversion and delivery which is becoming important as heterogeneous power sources are adopted for digital and non digital parts Investigates 3D die stacking emphasizing temperature awareness for better perspective on energy efficiency Presents three practical energy aware design case studies novel storage device e g solid state disk biomedical electronics e g cochlear and retina implants and wireless surveillance camera systems Researchers and engineers in the field of hardware and software design will find this book an excellent starting point to catch up with the state of the art ideas of low power design

Proceedings of the 15th International Conference on Ubiquitous Computing & Ambient Intelligence (UCAmI 2023) José Bravo,Gabriel Urzáiz,2023-11-25 This book serves as a comprehensive compilation of groundbreaking research endeavors within the realms of ambient intelligence and ubiquitous computing These initiatives are pivotal in enabling both researchers and practitioners to discern recent breakthroughs and emerging frontiers in these fields Encompassing a wide array of domains including Ambient Active and Assisted Living A3L the Internet of Things IoT Smart Environments Data Science and Human Ambient Interaction acts as a valuable resource for scholars professionals and graduate students alike The primary aim of this book is to empower individuals within the academic and professional community to harness this wealth of knowledge It equips them to tackle innovative challenges and engineer smart and ubiquitous solutions that will shape the landscape of the next decade By amalgamating insights from various facets of ambient intelligence and ubiquitous computing this book encourages cross disciplinary collaboration and fosters a holistic understanding of the field Thus it not only highlights the recent strides in these areas but also serves as a roadmap for future exploration and innovation paving

the way for a smarter and more interconnected world *Parallel Problem Solving from Nature – PPSN XIV* Julia Handl,Emma Hart,Peter R. Lewis,Manuel López-Ibáñez,Gabriela Ochoa,Ben Paechter,2016-08-30 This book constitutes the refereed proceedings of the 14th International Conference on Parallel Problem Solving from Nature PPSN 2016 held in Edinburgh UK in September 2016 The total of 93 revised full papers were carefully reviewed and selected from 224 submissions The meeting began with four workshops which offered an ideal opportunity to explore specific topics in intelligent transportation Workshop landscape aware heuristic search natural computing in scheduling and timetabling and advances in multi modal optimization PPSN XIV also included sixteen free tutorials to give us all the opportunity to learn about new aspects gray box optimization in theory theory of evolutionary computation graph based and cartesian genetic programming theory of parallel evolutionary algorithms promoting diversity in evolutionary optimization why and how evolutionary multi objective optimization intelligent systems for smart cities advances on multi modal optimization evolutionary computation in cryptography evolutionary robotics a practical guide to experiment with real hardware evolutionary algorithms and hyper heuristics a bridge between optimization over manifolds and evolutionary computation implementing evolutionary algorithms in the cloud the attainment function approach to performance evaluation in EMO runtime analysis of evolutionary algorithms basic introduction meta model assisted evolutionary optimization The papers are organized in topical sections on adaption self adaption and parameter tuning differential evolution and swarm intelligence dynamic uncertain and constrained environments genetic programming multi objective many objective and multi level optimization parallel algorithms and hardware issues real word applications and modeling theory diversity and landscape analysis **Energy-Aware Systems and Networking for Sustainable Initiatives** Kaabouch, Naima,Hu, Wen-Chen,2012-06-30 This book covers a great variety of topics such as materials environment electronics and computing offering a vital source of information detailing the latest architectures frameworks methodologies and research on energy aware systems and networking for sustainable initiatives **Nature-Inspired Computation and Swarm Intelligence** Xin-She Yang,2020-04-10 Nature inspired computation and swarm intelligence have become popular and effective tools for solving problems in optimization computational intelligence soft computing and data science Recently the literature in the field has expanded rapidly with new algorithms and applications emerging Nature Inspired Computation and Swarm Intelligence Algorithms Theory and Applications is a timely reference giving a comprehensive review of relevant state of the art developments in algorithms theory and applications of nature inspired algorithms and swarm intelligence It reviews and documents the new developments focusing on nature inspired algorithms and their theoretical analysis as well as providing a guide to their implementation The book includes case studies of diverse real world applications balancing explanation of the theory with practical implementation Nature Inspired Computation and Swarm Intelligence Algorithms Theory and Applications is suitable for researchers and graduate students in computer science engineering data science and

management science who want a comprehensive review of algorithms theory and implementation within the fields of nature inspired computation and swarm intelligence **Handbook of Energy-Aware and Green Computing - Two Volume Set** Ishfaq Ahmad,Sanjay Ranka,2016-02-03 Implementing energy efficient CPUs and peripherals as well as reducing resource consumption have become emerging trends in computing As computers increase in speed and power their energy issues become more and more prevalent The need to develop and promote environmentally friendly computer technologies and systems has also come to the forefront Dark Silicon and Future On-chip Systems ,2018-07-26 Dark Silicon and the Future of On chip Systems Volume 110 the latest release in the Advances in Computers series published since 1960 presents detailed coverage of innovations in computer hardware software theory design and applications with this release focusing on an Introduction to dark silicon and future processors a Revisiting of processor allocation and application mapping in future CMPs in the dark silicon era Multi objectivism in the dark silicon age Dark silicon aware resource management for many core systems Dynamic power management for dark silicon multi core processors Topology specialization for networks on chip in the dark silicon era and Emerging SRAM based FPGA architectures Provides in depth surveys and tutorials on new computer technology Covers well known authors and researchers in the field Presents extensive bibliographies with most chapters Includes volumes that are devoted to single themes or subfields of computer science with this release focusing on Dark Silicon and Future On chip Systems **Algorithms and Architectures for Parallel Processing** Joanna Kolodziej,Benjamino Di Martino,Domenico Talia,Kaiqi Xiong,2013-12-09 This two volume set LNCS 8285 and 8286 constitutes the proceedings of the 13th International Conference on Algorithms and Architectures for Parallel Processing ICA3PP 2013 held in Vietri sul Mare Italy in December 2013 The first volume contains 10 distinguished and 31 regular papers selected from 90 submissions and covering topics such as big data multi core programming and software tools distributed scheduling and load balancing high performance scientific computing parallel algorithms parallel architectures scalable and distributed databases dependability in distributed and parallel systems wireless and mobile computing The second volume consists of four sections including 35 papers from one symposium and three workshops held in conjunction with ICA3PP 2013 main conference These are 13 papers from the 2013 International Symposium on Advances of Distributed and Parallel Computing ADPC 2013 5 papers of the International Workshop on Big Data Computing BDC 2013 10 papers of the International Workshop on Trusted Information in Big Data TIBiDa 2013 as well as 7 papers belonging to Workshop on Cloud assisted Smart Cyber Physical Systems C Smart CPS 2013 *Intelligent Systems Design and Applications* Ajith Abraham,Aswani Kumar Cherukuri,Patricia Melin,Niketa Gandhi,2019-04-11 This book highlights recent research on Intelligent Systems and Nature Inspired Computing It presents 212 selected papers from the 18th International Conference on Intelligent Systems Design and Applications ISDA 2018 and the 10th World Congress on Nature and Biologically Inspired Computing NaBIC which was held at VIT University India ISDA NaBIC 2018 was a premier conference in the field of

Computational Intelligence and brought together researchers engineers and practitioners whose work involved intelligent systems and their applications in industry and the real world Including contributions by authors from over 40 countries the book offers a valuable reference guide for all researchers students and practitioners in the fields of Computer Science and Engineering *Hardware Design for 3D Video Coding* Vladimir Afonso,Murilo Perleberg,Bruno Zatt,Marcelo Porto,Luciano Agostini,Altamiro Susin,2025-02-19 This book focuses on the research and development challenges posed by 3D video systems based on multi view plus depth MVD technology This technology can produce a realistic immersive experience generating synthetic video views on the decoder side reducing the amount of information on the encoder side The discussion presented in this book explores the MVD characteristics to propose high throughput and energy efficient architectures systems focusing on 3D HEVC the state of the art standard for exploiting the MVD concept The book includes an extensive discussion of the 3D HEVC video encoding followed by an in depth evaluation of the 3D HEVC reference software behavior Then the book presents in detail a set of high throughput and energy efficient architectures targeting the three main prediction steps inside the 3D HEVC intra frame prediction inter frame prediction and inter view prediction *Mobile Applications Development with Android* Meikang Qiu,Wenyun Dai,Keke Gai,2016-10-14 Mobile Applications Development with Android Technologies and Algorithms presents advanced techniques for mobile app development and addresses recent developments in mobile technologies and wireless networks The book covers advanced algorithms embedded systems novel mobile app architecture and mobile cloud computing paradigms Divided into three sections the book explores three major dimensions in the current mobile app development domain The first section describes mobile app design and development skills including a quick start on using Java to run an Android application on a real phone It also introduces 2D graphics and UI design as well as multimedia in Android mobile apps The second part of the book delves into advanced mobile app optimization including an overview of mobile embedded systems and architecture Data storage in Android mobile optimization by dynamic programming and mobile optimization by loop scheduling are also covered The last section of the book looks at emerging technologies including mobile cloud computing advanced techniques using Big Data and mobile Big Data storage About the Authors Meikang Qiu is an Associate Professor of Computer Science at Pace University and an adjunct professor at Columbia University He is an IEEE ACM Senior Member as well as Chair of the IEEE STC Special Technical Community on Smart Computing He is an Associate Editor of a dozen of journals including IEEE Transactions on Computers and IEEE Transactions on Cloud Computing He has published 320 peer reviewed journal conference papers and won 10 Best Paper Awards Wenyun Dai is pursuing his PhD at Pace University His research interests include high performance computing mobile data privacy resource management optimization cloud computing and mobile networking His paper about mobile app privacy has been published in IEEE Transactions on Computers Keke Gai is pursuing his PhD at Pace University He has published over 60 peer reviewed journal or conference papers and has received three IEEE Best Paper

Awards His research interests include cloud computing cyber security combinatorial optimization business process modeling enterprise architecture and Internet computing Design Space Exploration and Resource Management of Multi/Many-Core Systems Amit Kumar Singh,Amlan Ganguly,2021-05-10 The increasing demand of processing a higher number of applications and related data on computing platforms has resulted in reliance on multi many core chips as they facilitate parallel processing However there is a desire for these platforms to be energy efficient and reliable and they need to perform secure computations for the interest of the whole community This book provides perspectives on the aforementioned aspects from leading researchers in terms of state of the art contributions and upcoming trends Encyclopedia of Information Science and Technology, Third Edition Khosrow-Pour, D.B.A., Mehdi,2014-07-31 This 10 volume compilation of authoritative research based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities prospective solutions and future directions in the field of information science and technology Provided by publisher **Computer Networks and Distributed Systems** Amir Hossein Jahangir,Ali Movaghar,Hossein Asadi,2014-10-07 This book constitutes the refereed proceedings of the International Symposium on Computer Networks and Distributed Systems CNDS 2013 held in Tehran Iran in December 2013 The 14 full papers presented were carefully reviewed and selected from numerous submissions They are organized in topical sections such as cognitive and multimedia networks wireless sensor networks security clouds and grids **Energy-aware Scheduling on Multiprocessor Platforms** Dawei Li,Jie Wu,2012-10-19 Multiprocessor platforms play important roles in modern computing systems and appear in various applications ranging from energy limited hand held devices to large data centers As the performance requirements increase energy consumption in these systems also increases significantly Dynamic Voltage and Frequency Scaling DVFS which allows processors to dynamically adjust the supply voltage and the clock frequency to operate on different power energy levels is considered an effective way to achieve the goal of energy saving This book surveys existing works that have been on energy aware task scheduling on DVFS multiprocessor platforms Energy aware scheduling problems are intrinsically optimization problems the formulations of which greatly depend on the platform and task models under consideration Thus Energy aware Scheduling on Multiprocessor Platforms covers current research on this topic and classifies existing works according to two key standards namely homogeneity heterogeneity of multiprocessor platforms and the task types considered Under this classification other sub issues are also included such as slack reclamation fixed dynamic priority scheduling partition based global scheduling and application specific power consumption etc

Dependable Software Engineering. Theories, Tools, and Applications Xinyu Feng,Markus Müller-Olm,Zijiang Yang,2018-08-25 This book constitutes the proceedings of the Third International Symposium on Dependable Software Engineering Theories Tools and Applications SETTA 2018 held in Beijing China in September 2018 The 9 full papers presented together with 3 short papers were carefully reviewed and selected from 22 submissions The purpose of SETTA is

to provide an international forum for researchers and practitioners to share cutting edge advancements and strengthen collaborations in the field of formal methods and its interoperability with software engineering for building reliable safe secure and smart systems Wireless Medical Systems and Algorithms Pietro Salvo,Miguel Hernandez-Silveira,2017-11-22 Wireless Medical Systems and Algorithms Design and Applications provides a state of the art overview of the key steps in the development of wireless medical systems from biochips to brain computer interfaces and beyond The book also examines some of the most advanced algorithms and data processing in the field Addressing the latest challenges and solutions related to the medical needs electronic design advanced materials chemistry wireless body sensor networks and technologies suitable for wireless medical devices the text Investigates the technological and manufacturing issues associated with the development of wireless medical devices Introduces the techniques and strategies that can optimize the performances of algorithms for medical applications and provide robust results in terms of data reliability Includes a variety of practical examples and case studies relevant to engineers medical doctors chemists and biologists Wireless Medical Systems and Algorithms Design and Applications not only highlights new technologies for the continuous surveillance of patient health conditions but also shows how disciplines such as chemistry biology engineering and medicine are merging to produce a new class of smart devices capable of managing and monitoring a wide range of cognitive and physical disabilities **Nature Inspired Computing for Wireless Sensor Networks** Debashis De,Amartya Mukherjee,Santosh Kumar Das,Nilanjan Dey,2020-02-01 This book presents nature inspired computing applications for the wireless sensor network WSN Although the use of WSN is increasing rapidly it has a number of limitations in the context of battery issue distraction low communication speed and security This means there is a need for innovative intelligent algorithms to address these issues The book is divided into three sections and also includes an introductory chapter providing an overview of WSN and its various applications and algorithms as well as the associated challenges Section 1 describes bio inspired optimization algorithms such as genetic algorithms GA artificial neural networks ANN and artificial immune systems AIS in the contexts of fault analysis and diagnosis and traffic management Section 2 highlights swarm optimization techniques such as African buffalo optimization ABO particle swarm optimization PSO and modified swarm intelligence technique for solving the problems of routing network parameters optimization and energy estimation Lastly Section 3 explores multi objective optimization techniques using GA PSO ANN teaching learning based optimization TLBO and combinations of the algorithms presented As such the book provides efficient and optimal solutions for WSN problems based on nature inspired algorithms

Handbook of Research on Advanced Wireless Sensor Network Applications, Protocols, and Architectures Ray, Niranjan K.,Turuk, Ashok Kumar,2016-08-01 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 **Efficient Processing of Deep Neural Networks** Vivienne Sze,Yu-Hsin Chen,Tien-Ju Yang,Joel S. Emer,2022-05-31 This book provides a structured treatment of the key principles and techniques for enabling efficient processing of deep neural networks DNNs DNNs are currently widely used for many artificial intelligence AI applications including computer vision speech recognition and robotics While DNNs deliver state of the art accuracy on many AI tasks it comes at the cost of high computational complexity Therefore techniques that enable efficient processing of deep neural networks to improve key metrics such as energy efficiency throughput and latency without sacrificing accuracy or increasing hardware costs are critical to enabling the wide deployment of DNNs in AI systems The book includes background on DNN processing a description and taxonomy of hardware architectural approaches for designing DNN accelerators key metrics for evaluating and comparing different designs features of DNN processing that are amenable to hardware algorithm co design to improve energy efficiency and throughput and opportunities for applying new technologies Readers will find a structured introduction to the field as well as formalization and organization of key concepts from contemporary work that provide insights that may spark new ideas

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