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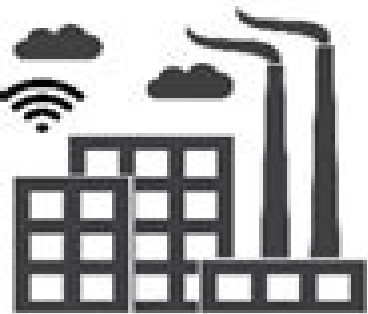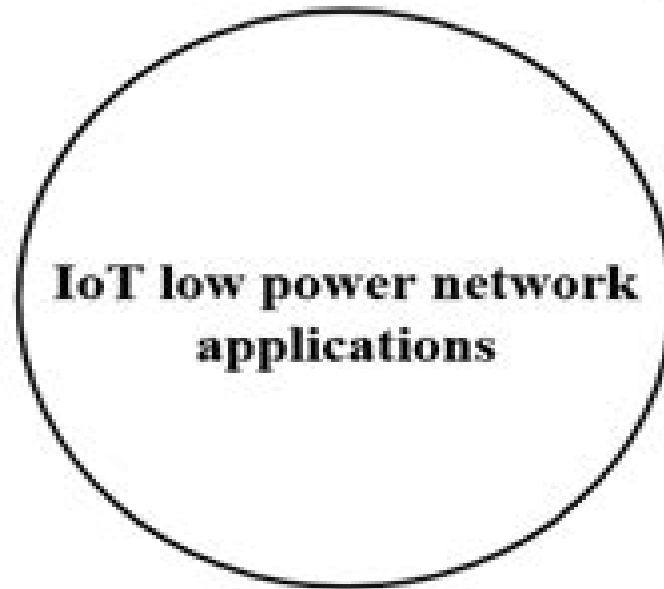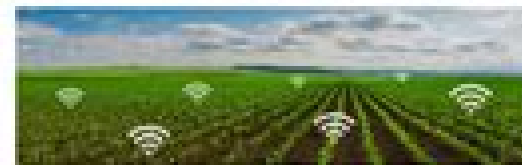
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Low Power Networks On Chip

Rabab Ezz-Eldin,Magdy A. El-Moursy,Amr M. Gody

Low Power Networks On Chip:

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Low-Power NoC for High-Performance SoC Design Hoi-Jun Yoo,Kangmin Lee,Jun Kyong Kim,2018-10-08 Chip Design and Implementation from a Practical Viewpoint Focusing on chip implementation Low Power NoC for High Performance SoC Design provides practical knowledge and real examples of how to use network on chip NoC in the design of system on chip SoC It discusses many architectural and theoretical studies on NoCs including design methodology topology exploration quality of service guarantee low power design and implementation trials The Steps to Implement NoC The book covers the full spectrum of the subject from theory to actual chip design using NoC Employing the Unified Modeling Language UML throughout it presents complicated concepts such as models of computation and communication computation partitioning in a manner accessible to laypeople The authors provide guidelines on how to simplify complex networking theory to design a working chip In addition they explore the novel NoC techniques and implementations of the Basic On Chip Network BONE project Examples of real time decisions circuit level design systems and chips give the material a real world context Low Power NoC and Its Application to SoC Design Emphasizing the application of NoC to SoC design this book shows how to build the complicated interconnections on SoC while keeping a low power consumption *Networks on Chips* Giovanni De Micheli,Luca Benini,2006-08-30 The design of today s semiconductor chips for various applications such as telecommunications poses various challenges due to the complexity of these systems These highly complex systems on chips demand new approaches to connect and manage the communication between on chip processing and storage components and networks on chips NoCs provide a powerful solution This book is the first to provide a unified overview of NoC technology It includes in depth analysis of all the on chip communication challenges from physical wiring implementation up to software architecture and a complete classification of their various Network on Chip approaches and solutions Leading edge research from world renowned experts in academia and industry with state of the art technology implementations trends An integrated presentation not currently available in any other book A thorough introduction to current design methodologies and chips designed with NoCs **Bio-Inspired Fault-Tolerant Algorithms for Network-on-Chip**

Muhammad Athar Javed Sethi,2020-03-17 Network on Chip NoC addresses the communication requirement of different nodes on System on Chip The bio inspired algorithms improve the bandwidth utilization maximize the throughput and reduce the end to end latency and inter flit arrival time This book exclusively presents in depth information regarding bio inspired algorithms solving real world problems focussing on fault tolerant algorithms inspired by the biological brain and implemented on NoC It further documents the bio inspired algorithms in general and more specifically in the design of NoC It gives an exhaustive review and analysis of the NoC architectures developed during the last decade according to various parameters Key Features Covers bio inspired solutions pertaining to Network on Chip NoC design solving real world examples Includes bio inspired NoC fault tolerant algorithms with detail coding examples Lists fault tolerant algorithms with detailed examples Reviews basic concepts of NoC Discusses NoC architectures developed to date Computational Intelligence in Digital and Network Designs and Applications Mourad Fakhfakh,Esteban Tlelo-Cuautle,Patrick Siarry,2015-07-14 This book explains the application of recent advances in computational intelligence algorithms design methodologies and synthesis techniques to the design of integrated circuits and systems It highlights new biasing and sizing approaches and optimization techniques and their application to the design of high performance digital VLSI radio frequency and mixed signal circuits and systems This second of two related volumes addresses digital and network designs and applications with 12 chapters grouped into parts on digital circuit design network optimization and applications It will be of interest to practitioners and researchers in computer science and electronics engineering engaged with the design of electronic circuits **Advances in Communication, Devices and Networking** Bikash Sharma,Dinh-Thuan Do,Samarendra Nath Sur,Chuan-Ming Liu,2024-10-18 This book covers recent trends in the field of devices wireless communication and networking It gathers selected papers presented at the 7th International Conference on Communication Devices and Networking ICCDN 2024 which was organized by the Department of Electronics and Communication Engineering Sikkim Manipal Institute of Technology Sikkim India on 19 20 January 2024 Gathering cutting edge research papers prepared by researchers engineers and industry professionals helps young and experienced scientists and developers alike to explore new perspectives and offers them inspirations on how to address real world problems in the areas of electronics communication devices and networking *Advances in Computers* Suyel Namasudra,2022-02-04 Advances in Computers Volume 124 presents updates on innovations in computer hardware software theory design and applications with this updated volume including new chapters on Traffic Load Aware Virtual Channel Power gating in Network on Chips An Efficient DVS Scheme for On chip Networks A Power Performance Balanced Network on Chip for Mixed CPU GPU Systems Routerless Networks on Chip Routing Algorithm Design for Power and Temperature Aware NoCs Approximate Communication for Energy Efficient Network on Chip Power Efficient NoC Design by Partial Topology Reconfiguration The Design of a Deflection based Energy efficient On chip Network and Power Gating in Networks on Chip Contains novel subject

matter that is relevant to computer science Includes the expertise of contributing authors Presents an easy to comprehend writing style **Optoelectronics Engineering and Information Technologies in Industry** D.A. Li,W.H. Zhou,2013-09-18 Selected peer reviewed papers from the 2013 2nd International Conference on Opto Electronics Engineering and Materials Research OEMR 2013 October 19 20 2013 Zhengzhou Henan China **Machine-to-machine (M2M) Communications** Carles Anton-Haro,Mischa Dohler,2014-12-23 Part one of Machine to Machine M2M Communications covers machine to machine systems architecture and components Part two assesses performance management techniques for M2M communications Part three looks at M2M applications services and standardization Machine to machine communications refers to autonomous communication between devices or machines This book serves as a key resource in M2M which is set to grow significantly and is expected to generate a huge amount of additional data traffic and new revenue streams underpinning key areas of the economy such as the smart grid networked homes healthcare and transportation Examines the opportunities in M2M for businesses Analyses the optimisation and development of M2M communications Chapters cover aspects of access scheduling mobility and security protocols within M2M communications *High Performance and Energy Efficient Multi-core Systems for DSP Applications* Zhiyi Yu,2007 **CODES+ISSS ...** ,2006 **Low Power Network-on-chip Architecture Based on Low Switching Method** 喻志益,2007 *Annales des télécommunications* ,2004-07 *High-Performance and Low-Power Network on Chip Switch* Rabab Ezz-Eldin,Magdy A. El-Moursy,Amr M. Gody,2012 Low leakage power switch is proposed to allow saving in power dissipation of the Network on Chip NoC Two power reduction techniques are exploited to design the proposed switch The proposed NoC switch employs power supply gating to reduce the power dissipation Adaptive virtual channel AVC is proposed as a novel technique to reduce power dissipation of the NoC switch AVC technique is proposed as an efficient technique to reduce the active area using hierarchical multiplexing tree Moreover power gating reduces the average leakage power consumption of proposed switch The proposed techniques reduce the leakage and dynamic power dissipation of the switch Journal of VLSI Signal Processing Systems for Signal, Image, and Video Technology ,1997 3D Networks-on-Chip Architecture Optimization for Low Power Design Opoku Agyeman Michael,2015-07-13 Three dimensional Networks on Chip 3D NoCs have attracted a growing interest to solve on chip communication demands of future multi core embedded systems However 3D NoCs have not been completely accepted into the mainstream due to issues such as the high cost and complexity of manufacturing 3D vertical wires larger memory area and power consumption of 3D NoC components than that of conventional 2D NoC This thesis aims at optimizing 3D NoCs by modeling and evaluating alternate NoC topologies routing algorithms and mapping techniques to achieve optimized area power and performance parameters latency and throughput Particularly novel 3D NoC router architectures and their possible combinations have been investigated with the aim of achieving lower area and power consumption of on chip communication components with a minimal performance trade off This book investigates different

heterogeneous 3D NoC architectures which combine 2D and 3D routers to improve area and energy efficiency of 3D NoCs with minimal performance degradation **Proceedings of the Technical Conference** ,1990 **Electrical & Electronics Abstracts** ,1997 Signal ,1993

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