

Network-on-Chip

**The
Next Generation
of System-on-Chip
Integration**

**Santanu Kundu
Santanu Chattopadhyay**



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Network On Chip The Next Generation Of System On Chip Integration

**Om Prakash Jena, Sudhansu Shekhar
Patra, Mrutyunjaya Panda, Zdzislaw
Polkowski, S. Balamurugan**

Network On Chip The Next Generation Of System On Chip Integration:

Network-on-Chip Santanu Kundu, Santanu Chattopadhyay, 2014-12-15 Addresses the Challenges Associated with System on Chip Integration Network on Chip The Next Generation of System on Chip Integration examines the current issues restricting chip on chip communication efficiency and explores Network on chip NoC a promising alternative that equips designers with the capability to produce a scalable reusable and high performance communication backbone by allowing for the integration of a large number of cores on a single system on chip SoC This book provides a basic overview of topics associated with NoC based design communication infrastructure design communication methodology evaluation framework and mapping of applications onto NoC It details the design and evaluation of different proposed NoC structures low power techniques signal integrity and reliability issues application mapping testing and future trends Utilizing examples of chips that have been implemented in industry and academia this text presents the full architectural design of components verified through implementation in industrial CAD tools It describes NoC research and developments incorporates theoretical proofs strengthening the analysis procedures and includes algorithms used in NoC design and synthesis In addition it considers other upcoming NoC issues such as low power NoC design signal integrity issues NoC testing reconfiguration synthesis and 3 D NoC design This text comprises 12 chapters and covers The evolution of NoC from SoC its research and developmental challenges NoC protocols elaborating flow control available network topologies routing mechanisms fault tolerance quality of service support and the design of network interfaces The router design strategies followed in NoCs The evaluation mechanism of NoC architectures The application mapping strategies followed in NoCs Low power design techniques specifically followed in NoCs The signal integrity and reliability issues of NoC The details of NoC testing strategies reported so far The problem of synthesizing application specific NoCs Reconfigurable NoC design issues Direction of future research and development in the field of NoC Network on Chip The Next Generation of System on Chip Integration covers the basic topics technology and future trends relevant to NoC based design and can be used by engineers students and researchers and other industry professionals interested in computer architecture embedded systems and parallel distributed systems

Network-on-Chip Santanu Kundu, Santanu Chattopadhyay, 2018-09-03 Addresses the Challenges Associated with System on Chip Integration Network on Chip The Next Generation of System on Chip Integration examines the current issues restricting chip on chip communication efficiency and explores Network on chip NoC a promising alternative that equips designers with the capability to produce a scalable reusable and high performance communication backbone by allowing for the integration of a large number of cores on a single system on chip SoC This book provides a basic overview of topics associated with NoC based design communication infrastructure design communication methodology evaluation framework and mapping of applications onto NoC It details the design and evaluation of different proposed NoC structures low power techniques signal integrity and reliability issues application mapping testing and future trends Utilizing examples of chips

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13th International Conference on Information Systems and Advanced Technologies "ICISAT 2023" Mohamed Ridda Laouar,Valentina Emilia Balas,Vincenzo Piuri,Dana Rad,Zineb Touati Hamad,Abbas Cheddad,2024-07-30 This book covers the Proceedings of the 13th International Conference on Information Systems and Advanced Technologies ICISAT 2023 One of the evocative and valuable dimensions of this conference is the way it brings together researchers scientists academics and engineers in the field from different countries and enables discussions and debate of relevant issues challenges opportunities and research findings The ICISAT 2023 conference provided a forum for research and developments in the field of information systems and advanced technologies and new trends in developing information systems organizational aspects of their development and intelligent aspects of the final product The aim of the ICISAT 2023 is to report progress and development of methodologies technologies planning and implementation tools and standards in information systems technologies and sciences ICISAT 2023 aims at addressing issues related to the intelligent information data science and decision support system from multidisciplinary perspectives and to discuss the research teaching and professional practice in the field The book of ICISAT 2023 includes selected papers from the 13th International Conference on Information Systems and Advanced Technologies ICISAT 2023 organized during December 29 30 2023 In this book researchers professional software and systems engineers from around the world addressed intelligent information data science and decision support system for the conference The ideas and practical solutions described in the book are the outcome of dedicated research by academics and practitioners aiming to advance theory and practice in this research domain The list of topics is in all the areas of modern intelligent information systems and technologies such as neural networks evolutionary computing adaptive

systems pervasive system ubiquitous system E learning and teaching knowledge based paradigms learning paradigms intelligent data analysis intelligent decision making and support system intelligent network security web intelligence deep learning natural language processing image processing general machine learning and unsupervised learning *Integrated System-Level Modeling of Network-on-Chip enabled Multi-Processor Platforms* Tim Kogel, Rainer Leupers, Heinrich Meyr, 2006-08-25 We are presently observing a paradigm change in designing complex SoC as it occurs roughly every twelve years due to the exponentially increasing number of transistors on a chip This design discontinuity as all previous ones is characterized by a move to a higher level of abstraction This is required to cope with the rapidly increasing design costs While the present paradigm change shares the move to a higher level of abstraction with all previous ones there exists also a key difference For the first time shrinking geometries do not lead to a corresponding increase of performance In a recent talk Lisa Su of IBM pointed out that in 65nm technology only about 25% of performance increase can be attributed to scaling geometries while the lion share is due to innovative processor architecture 1 We believe that this fact will revolutionize the entire semiconductor industry What is the reason for the end of the traditional view of Moore's law It is instructive to look at the major drivers of the semiconductor industry wireless communications and multimedia Both areas are characterized by a rapidly increasing demand of computational power in order to process the sophisticated algorithms necessary to optimally utilize the precious resource bandwidth The computational power cannot be provided by traditional processor architectures and shared bus type of interconnects The simple reason for this fact is energy efficiency there exist orders of magnitude between the energy efficiency of an algorithm implemented as a fixed functionality computational element and of a software implementation on a processor

Communication, Signal Processing & Information Technology Faouzi Derbel, Nabil Derbel, Olfa Kanoun, 2018-07-23 The book elaborates selected extended and peer reviewed papers on Communication and Signal Processing As Vol 8 of the series on Advances on Signals Systems and Devices it presents main topics such as content based video retrieval wireless communication systems biometry and medical imaging adaptive and smart antennae

Innovations and Advances in Cognitive Systems S. D. Prabu Ragavendaran, Vasile Daniel Pavaloaia, M. S. Mekala, Selwyn Piramuthu, 2025-10-12 This book presents a diverse set of research contributions across critical domains like healthcare agriculture cybersecurity communication systems and quantum computing Ranging from transfer learning frameworks for rice classification and federated learning improvements to facial emotion recognition and quantum enabled tourism analytics the chapters offer an in depth journey into practical scalable and cutting edge applications of AI Readers also find state of the art studies on Kalman filters for weather forecasting power aware hardware architectures and the revolutionary potential of explainable AI in medical imaging This book presents deep insights into how cognitive systems are addressing real world problems and redefining the future of smart technology

Industrial Transformation Om Prakash Jena, Sudhansu Shekhar Patra, Mrutyunjaya Panda, Zdzislaw

Polkowski,S. Balamurugan,2022-05-09 This book focuses on industrial development design implementation and transformation using technologies such as Artificial Intelligence Machine Learning the Internet of Things IoT Big Data Analysis and Blockchain It incorporates complex processes functions and various other elements as one central component of digital systems Industrial Transformation Implementation and Essential Components and Processes of Digital Systems discusses the industry transformation aligned with the computerization of manufacturing and the required skills needed to build a new workforce This book covers the role that AI plays in the management of resource flow and decision making in the transformation of operations as well as supply chain management It presents sustainability and efficiency with IoT Machine Learning Data Analysis and Blockchain technologies as it focuses on industrial development design and implementation This book showcases the incorporation of complex processes and functions as one central component of digital systems and explores current trends that are working to accelerate industrial transformation Case studies are also included depicting the technologies that are influencing the transition into the fourth Industrial Revolution such as industrial infrastructure biodiversity and enhanced productivity This book is aimed at researchers scholars and students that require real time knowledge and applications where the transformation and implementation of digital systems in the manufacturing sector are needed *Applied Soft Computing and Communication Networks* Sabu M. Thampi,Elizabeth Sherly,Soura Dasgupta,Jaime Lloret Mauri,Jemal H. Abawajy,Evgeny Khorov,Jimson Mathew,2020-04-30 This book constitutes best selected research papers presented at the International Applied Soft Computing and Communication Networks ACN 2019 held in Trivandrum Kerala India during December 18 21 2019 The papers are organized in topical sections on real time and multimedia communications security and privacy network management and software defined networks Internet of Things IoT and cyber physical systems intelligent distributed systems mobile computing and vehicle communications surveillance networks and visual intelligence and emerging topics The book is a reference for researchers and scientists engaged in various fields of intelligent systems **Thermal-Aware Testing of Digital VLSI Circuits and Systems** Santanu

Chattopadhyay,2018-04-24 This book aims to highlight the research activities in the domain of thermal aware testing Thermal aware testing can be employed both at circuit level and at system level Describes range of algorithms for addressing thermal aware test issue presents comparison of temperature reduction with power aware techniques and include results on benchmark circuits and systems for different techniques This book will be suitable for researchers working on power and thermal aware design and the testing of digital VLSI chips **Design for Embedded Image Processing on FPGAs** Donald G. Bailey,2023-08-08 Design for Embedded Image Processing on FPGAs Bridge the gap between software and hardware with this foundational design reference Field programmable gate arrays FPGAs are integrated circuits designed so that configuration can take place Circuits of this kind play an integral role in processing images with FPGAs increasingly embedded in digital cameras and other devices that produce visual data outputs for subsequent realization and compression

These uses of FPGAs require specific design processes designed to mediate smoothly between hardware and processing algorithm Design for Embedded Image Processing on FPGAs provides a comprehensive overview of these processes and their applications in embedded image processing Beginning with an overview of image processing and its core principles this book discusses specific design and computation techniques with a smooth progression from the foundations of the field to its advanced principles Readers of the second edition of Design for Embedded Image Processing on FPGAs will also find Detailed discussion of image processing techniques including point operations histogram operations linear transformations and more New chapters covering Deep Learning algorithms and Image and Video Coding Example applications throughout to ground principles and demonstrate techniques Design for Embedded Image Processing on FPGAs is ideal for engineers and academics working in the field of Image Processing as well as graduate students studying Embedded Systems Engineering Image Processing Digital Design and related fields

A System-level Platform-based Multi-core System-on-chip Simulation Framework with Retargetable Processing Element Models Jinwen Xi,2007 *Transactions on Computational Science X* Marina L. Gavrilova,C. J. Kenneth Tan,Edward David Moreno,2010-12-07 The LNCS journal Transactions on Computational Science reflects recent developments in the field of Computational Science conceiving the field not as a mere ancillary science but rather as an innovative approach supporting many other scientific disciplines The journal focuses on original high quality research in the realm of computational science in parallel and distributed environments encompassing the facilitating theoretical foundations and the applications of large scale computations and massive data processing It addresses researchers and practitioners in areas ranging from aerospace to biochemistry from electronics to geosciences from mathematics to software architecture presenting verifiable computational methods findings and solutions and enabling industrial users to apply techniques of leading edge large scale high performance computational methods The 10th issue of the Transactions on Computational Science edited by Edward David Moreno is the first of two publications focusing on security in computing The 14 papers included in the volume address a wide range of applications and designs such as new architectures novel hardware implementations cryptographic algorithms and security protocols

Photonic Interconnects for Computing Systems Gabriela Nicolescu,Mahdi Nikdast,Sébastien Le Beux,2022-09-01 In recent years there has been a considerable amount of effort both in industry and academia focusing on the design implementation performance analysis evaluation and prediction of silicon photonic interconnects for inter and intra chip communication paving the way for the design and dimensioning of the next and future generation of high performance computing systems Photonic Interconnects for Computing Systems provides a comprehensive overview of the current state of the art technology and research achievements in employing silicon photonics for interconnection networks and high performance computing summarizing main opportunities and some challenges The majority of the chapters were collected from presentations made at the International Workshop on Optical Photonic Interconnects for Computing Systems OPTICS held over the past two years The

workshop invites internationally recognized speakers on the range of topics relevant to silicon photonics and computing systems. Technical topics discussed in the book include Design and Implementation of Chip Scale Photonic Interconnects, Developing Design Automation Solutions for Chip Scale Photonic Interconnects, Design Space Exploration in Chip Scale Photonic Interconnects, Thermal Analysis and Modeling in Photonic Interconnects, Design for Reliability Fabrication, Non-Uniformity in Photonic Interconnects. Photonic Interconnects for Computing Systems presents a compilation of outstanding contributions from leading research groups in the field. It presents a comprehensive overview of the design advantages, challenges, and requirements of photonic interconnects for computing systems. The selected contributions present important discussions and approaches related to the design and development of novel photonic interconnect architectures as well as various design solutions to improve the performance of such systems while considering different challenges. The book is ideal for personnel in computer photonic industries as well as academic staff and master graduate students in computer science and engineering, electronic engineering, electrical engineering, and photonics.

Advances in Computers Ali Hurson, 2023-03-01. The 130th volume is an eclectic volume inspired by recent issues of interest in research and development in computer science and computer engineering. The volume is a collection of five chapters: Autonomous Vehicle Cybersecurity, Multicore architecture, Cloud based multimedia system, Designing 2D and 3D Network-on-Chip Architectures Konstantinos Tatas, Kostas Siozios, Dimitrios Soudris, Axel Jantsch, 2013-10-08. This book covers key concepts in the design of 2D and 3D Network on Chip interconnect. It highlights design challenges and discusses fundamentals of NoC technology including architectures, algorithms, and tools. Coverage focuses on topology exploration for both 2D and 3D NoCs, routing algorithms, NoC router design, NoC based system integration, verification and testing, and NoC reliability. Case studies are used to illuminate new design methodologies.

From Specification to Embedded Systems Application Achim Rettberg, Mauro C. Zanella, Franz J. Rammig, 2005-08-10. IFIP TC10 Working Conference International Embedded Systems Symposium IESS August 15-17 2005 Manaus Brazil.

Artificial Intelligence and Evolutionary Computations in Engineering Systems Subhransu Sekhar Dash, M. Arun Bhaskar, Bijaya Ketan Panigrahi, Swagatham Das, 2016-02-05. The book is a collection of high quality peer reviewed research papers presented in the first International Conference on Artificial Intelligence and Evolutionary Computations in Engineering Systems ICAIECES 2015 held at Velammal Engineering College VEC Chennai India during 22-23 April 2015. The book discusses wide variety of industrial engineering and scientific applications of the emerging techniques. Researchers from academic and industry present their original work and exchange ideas, information, techniques, and applications in the field of Communication Computing and Power Technologies.

Photonics Components Monthly Newsletter June 2010, Open Radio Access Network (O-RAN) Systems Architecture and Design Wim Rouwet, 2022-02-26. Open Radio Access Network O-RAN Systems Architecture and Design gives a jump start to engineers developing O-RAN hardware and software systems providing a top

down approach to O RAN systems design It gives an introduction into why wireless systems look the way they do today before introducing relevant O RAN and 3GPP standards The remainder of the book discusses hardware and software aspects of O RAN system design including dimensioning and performance targets Presents O RAN and 3GPP standards Provides a top down approach to O RAN systems design Includes practical examples of relevant elements of detailed hardware and software design to provide tools for development Gives a few practical examples of where O RAN designs play in the market and how they map to hardware and software architectures

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