

Time: 3 hours

Max. Marks: 75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

(25 Marks)

- 1.a) Define figure of merit of CMOS transistor. [2]
- b) Draw the CMOS inverter circuit. [3]
- c) What is meant by synthesis? [2]
- d) Differentiate Functional simulation and timing simulation. [3]
- e) What is the importance of fan-in and fan-out? [2]
- f) Differentiate rise time and fall time. [3]
- g) Draw the 1-bit SRAM cell. [2]
- h) What are the various serial access memories? [3]
- i) Implement 2:1 MUX using PAL. [2]
- j) What is the difference between verification and validation? [3]

PART - B

(50 Marks)

2. Draw and explain the operation of BiCMOS inverter. [10]
- OR
3. Derive the drain to source current equation for NMOS enhancement mode transistor. [10]
- OR
4. Discuss the steps involved in VLSI design flow. [10]
- OR
5. Draw the stick diagram for the following Boolean expression using CMOS logic.
 $F = A(B + C)$. [10]
6. Briefly explain the commonly used technique to estimate the delay time of a MOS inverter. [10]
- OR
7. Implement 4:1 multiplexer using switch logic. [10]
8. Design a 4-bit magnitude comparator. [10]
- OR
9. Design a zero detector circuit. [10]
10. Discuss scan design Techniques. [10]
- OR
11. Compare various programmable devices. [10]

Anna University Vlsi University Question Paper

**R. Maheswar,M. Balasaraswathi,Ravi
Rastogi,A. Sampathkumar,G. R.
Kanagachidambaresan**

Anna University Vlsi University Question Paper:

AI Smart-Enabled Architecture and Infrastructure for Higher Education van Wyk, Micheal M., 2025-07-03 Artificial intelligence AI transforms the landscape of higher education creating smart enabled architecture and infrastructure that redefines how campuses operate and evolve By integrating AI technologies into the physical and digital frameworks of universities institutions can create more adaptive efficient and student centered environments From intelligent energy management systems and predictive maintenance in campus buildings to AI powered learning platforms and data driven administrative tools it enhances both operational performance and academic delivery As higher education faces growing demands for innovation sustainability and personalized experiences AI enabled architecture and infrastructure may shape future campuses AI Smart Enabled Architecture and Infrastructure for Higher Education explores the integration of intelligent technologies into higher education organizations It explores how AI and machine learning can provide tools to reduce digital divides and address issues of educational disparity through inclusion and equity This book covers topics such as education infrastructure sustainability and digital technology and is a useful resource for computer engineers business owners educators academicians researchers and scientists *AI-Driven Marketing Research and Data Analytics* Masengu, Reason, Chiwaridzo, Option Takunda, Dube, Mercy, Ruzive, Benson, 2024-04-22 The surge in technological advancements coupled with the exponential growth of data has left marketers grappling with the need for a paradigm shift The once established methods of consumer engagement are now overshadowed by the complexities of the digital age demanding a profound understanding of artificial intelligence AI and data analytics The gap between academic knowledge and practical applications in the field of marketing has widened leaving industry professionals educators and students seeking a comprehensive resource to navigate the intricacies of this transformative era AI Driven Marketing Research and Data Analytics is a groundbreaking book that serves as a beacon for marketers educators and industry leaders alike With a keen focus on the symbiotic relationship between AI data analytics and marketing research this book bridges the gap between theory and practice It not only explores the historical evolution of marketing but also provides an innovative examination of how AI and data analytics are reshaping the landscape Through real time case studies ethical considerations and in depth insights the book offers a holistic solution to the challenges faced by marketing professionals in the digital age

Harnessing AI and Digital Twin Technologies in Businesses Ponnusamy, Sivaram, Assaf, Mansour, Antari, Jilali, Singh, Satyanand, Kalyanaraman, Swaminathan, 2024-07-26 The intersection of artificial intelligence AI and digital twin technology presents a problem and an unparalleled opportunity for transformation Businesses grapple with the need for operational excellence innovation and a competitive edge all while navigating the intricate web of data analytics decision making and real time monitoring In response to these challenges Harnessing AI and Digital Twin Technologies in Businesses emerges as an example of insight and guidance offering a comprehensive exploration of the complementary connection

between AI and digital twin technology In a world where the convergence of these powerful tools transforms business intelligence enabling initiative taking decision making and dynamic simulations This book serves as a solution for decision makers technologists and researchers seeking to not only understand but harness the potential of AI powered digital twins to enhance productivity creativity and judgment in their operations

VLSI for Neural Networks and Artificial Intelligence
 Jose G. Delgado-Frias, W.R. Moore, 2013-06-29 Neural network and artificial intelligence algorithms and computing have increased not only in complexity but also in the number of applications This in turn has posed a tremendous need for a larger computational power that conventional scalar processors may not be able to deliver efficiently These processors are oriented towards numeric and data manipulations Due to the neurocomputing requirements such as non programming and learning and the artificial intelligence requirements such as symbolic manipulation and knowledge representation a different set of constraints and demands are imposed on the computer architectures organizations for these applications Research and development of new computer architectures and VLSI circuits for neural networks and artificial intelligence have been increased in order to meet the new performance requirements This book presents novel approaches and trends on VLSI implementations of machines for these applications Papers have been drawn from a number of research communities the subjects span analog and digital VLSI design computer design computer architectures neurocomputing and artificial intelligence techniques This book has been organized into four subject areas that cover the two major categories of this book the areas are analog circuits for neural networks digital implementations of neural networks neural networks on multiprocessor systems and applications and VLSI machines for artificial intelligence The topics that are covered in each area are briefly introduced below

Handbook of Research on Investigations in Artificial Life Research and Development
 Habib, Maki, 2018-06-08 Research on artificial life is critical to solving various dynamic obstacles individuals face on a daily basis From electric wheelchairs to navigation artificial life can play a role in improving both the simple and complex aspects of civilian life The Handbook of Research on Investigations in Artificial Life Research and Development is a vital scholarly reference source that examines emergent research in handling real world problems through the application of various computation technologies and techniques Examining topics such as computational intelligence multi agent systems and fuzzy logic this publication is a valuable resource for academicians scientists researchers and individuals interested in artificial intelligence developments

Second International Conference on Computer Networks and Communication Technologies S. Smys, Tomonobu Senjyu, Pavel Lafata, 2020-01-21 This book presents new communication and networking technologies an area that has gained significant research attention from both academia and industry in recent years It also discusses the development of more intelligent and efficient communication technologies which are an essential part of current day to day life and reports on recent innovations in technologies architectures and standards relating to these technologies The book includes research that spans a wide range of communication and networking technologies including wireless sensor

networks big data Internet of Things optical and telecommunication networks artificial intelligence cryptography next generation networks cloud computing and natural language processing Moreover it focuses on novel solutions in the context of communication and networking challenges such as optimization algorithms network interoperability scalable network clustering multicasting and fault tolerant techniques network authentication mechanisms and predictive analytics

Industry Applications of Thrust Manufacturing: Convergence with Real-Time Data and AI Satishkumar, D.,Sivaraja, M.,2024-03-04 In manufacturing entrenched challenges like costly maintenance operational inefficiencies and product defects loom large casting shadows over industry progress Despite the promise of Industry 4.0 and the proliferation of data driven technologies many enterprises need help to effectively harness the transformative power of artificial intelligence AI The gap between AI's potential and its practical application persists hindering manufacturing companies from achieving optimal efficiency competitiveness and sustainability *Industry Applications of Thrust Manufacturing: Convergence with Real Time Data and AI* is a groundbreaking book meticulously crafted to address the pressing needs of academic scholars and industry professionals Offering a nuanced exploration of AI's role in revolutionizing manufacturing this book serves as a beacon of clarity amidst the complexities of modern industrial landscapes Whether seeking to optimize operational workflows mitigate risks or unlock untapped opportunities this definitive guide offers invaluable insights and actionable strategies to propel manufacturing enterprises into a future of innovation efficiency and sustainable growth **Conference Papers**

Index,1985 Monthly Papers presented at recent meeting held all over the world by scientific technical engineering and medical groups Sources are meeting programs and abstract publications as well as questionnaires Arranged under 17 subject sections 7 of direct interest to the life scientist Full programs of meetings listed under sections Entry gives citation number paper title name mailing address and any ordering number assigned Quarterly and annual indexes to subjects authors and programs not available in monthly issues *Novel AI Applications for Advancing Earth Sciences* Yadav, Sudesh,Yadav, Satya Prakash,Raj, Pethuru,Tiwari, Prabhakar,Albuquerque, Victor Hugo C. de,2023-12-29 The Earth Sciences industry faces a new challenge the need for accurate efficient and reliable methods to monitor and predict geological phenomena and environmental changes As climate change earthquakes and other natural disasters become more frequent and severe the necessity for advanced tools and techniques is paramount Traditional methods often fall short in providing the precision and speed required to address these critical issues Geologists and earth scientists who are grappling with the urgent problem of utilizing artificial intelligence AI to revolutionize their field will find the solution within the pages of *Novel AI Applications for Advancing Earth Sciences* This book offers the research community concepts expanding upon the fusion of AI technology with earth sciences By leveraging advanced AI tools such as convolutional neural networks support vector machines artificial neural networks and the potential of remote sensing satellites this book transforms the identification of geological features geological mapping soil classification and gas detection Scientists can now predict earthquakes and assess the probability of

climate change with unprecedented accuracy Additionally the book explains how the optimization of algorithms for specific tasks substantially reduces the time complexity of earth observations leading to an unprecedented leap in accuracy and efficiency

International Conference on Computer Applications 2012 :: Volume 04 Kokula Krishna Hari K, **18th International Conference on VLSI Design** International Conference on VLSI Design,2005 **Handbook of Research on Network-Enabled IoT Applications for Smart City Services** Reddy, K. Hemant Kumar,Roy, Diptendu Sinha,Mishra, Tapas Kumar,Hussain, Mir Wajahat,2023-09-26 The rapid growth of IoT and its applications in smart cities pose significant challenges for academic scholars The increasing number of interconnected devices and the massive amounts of data they generate strain traditional networks leading to inefficiencies and security vulnerabilities Additionally the centralized control plane in Software Defined Networks SDN presents a single point of failure hindering network performance while IoT devices themselves are susceptible to attacks compromising user data and privacy To address these pressing issues Network Enabled IoT Applications for Smart City Services offers a compelling solution Edited by Dr K Hemant Kumar Reddy Dr Diptendu SinhaRoy and Tapas Mishra this book advocates leveraging SDN to handle high frequency data streams effectively It also proposes the integration of blockchain technology to enhance security and reliability in IoT applications offering a roadmap for scholars to improve network efficiency security and reliability in IoT and smart city domains With their extensive expertise the authors provide academic scholars with a comprehensive and innovative resource that inspires further research and development in this evolving field enabling them to make significant contributions to the advancement of IoT and smart city technologies

Analysis and Application , Exploring the Convergence of Big Data and the Internet of Things Prasad, A.V. Krishna,2017-08-11 The growth of Internet use and technologies has increased exponentially within the business sector When utilized properly these applications can enhance business functions and make them easier to perform Exploring the Convergence of Big Data and the Internet of Things is a pivotal reference source featuring the latest empirical research on the business use of computing devices to send and receive data in conjunction with analytic applications to reduce maintenance costs avoid equipment failures and improve business operations Including research on a broad range of topics such as supply chain aquaculture and speech recognition systems this book is ideally designed for researchers academicians and practitioners seeking current research on various technology uses in business

Data Assimilation and Control: Theory and Applications in Life Sciences Axel Hutt,Wilhelm Stannat,Roland Potthast,2019-08-16 The understanding of complex systems is a key element to predict and control the system s dynamics To gain deeper insights into the underlying actions of complex systems today more and more data of diverse types are analyzed that mirror the systems dynamics whereas system models are still hard to derive Data assimilation merges both data and model to an optimal description of complex systems dynamics The present eBook brings together both recent theoretical work in data assimilation and control and demonstrates applications in diverse research fields

Sustainable Digital Technologies for Smart Cities L Ashok

Kumar,R. Manivel,Eyal Ben Dor,2023-07-31 This book focuses on recent and emerging techniques for the enhancement of smart healthcare smart communication and smart transportation systems It covers topics ranging from Machine Learning techniques the Internet of Things IoT security aspects of medical documents the performance of various protocols used in the communication and transportation environment simulation of systems for real time applications and overall analysis of the previously mentioned Applications such as transportation systems stock market prediction Smart Cities and vehicular communication are dealt with Features Covers three important aspects of smart cities i e healthcare smart communication and information and smart transportation technologies Discusses various security aspects of medical documents and the data preserving mechanisms Provides better solutions using IoT techniques for healthcare transportation and communication systems Includes the implementation example various datasets experimental results and simulation procedures Offers solutions for various disease prediction systems with intelligent techniques This book is aimed at researchers and graduate students in computer science electrical engineering and data analytics

Challenges and Solutions for Sustainable Smart City Development R. Maheswar,M. Balasaraswathi,Ravi Rastogi,A. Sampathkumar,G. R.

Kanagachidambaresan,2021-05-22 This book discusses advances in smart and sustainable development of smart environments The authors discuss the challenges faced in developing sustainable smart applications and provide potential solutions The solutions are aimed at improving reliability and security with the goal of affordability safety and durability Topics include health care applications sustainable smart transportation systems intelligent sustainable wearable electronics and sustainable smart building and alert systems Authors are from both industry and academia and present research from around the world Addresses problems and solutions for sustainable development of smart cities Includes applications such as healthcare transportation wearables security and more Relevant for scientist and researchers working on real time smart city development

Revolutionary Applications of Blockchain-Enabled Privacy and Access Control Singh, Surjit,Jurcut, Anca Delia,2021-04-16 The security of an organizational information system with the invention of next generation technologies is a prime focus these days The industries and institutions in the field of computing and communication especially in internet of things cloud computing mobile networks next generation networks the energy market banking sector government sector and many more are primarily focused on these security and privacy issues Blockchain is a new technology that has changed the scenario when it comes to addressing security concerns and resolving traditional safety issues These industries have started developing applications based on the blockchain underlying platform to tap into this unlimited potential Blockchain technologies have a great future but there are still many challenges and issues to resolve for optimal design and utilization of the technology Revolutionary Applications of Blockchain Enabled Privacy and Access Control focuses on the recent challenges design and issues in the field of blockchain technologies enabled privacy and advanced security practices in computing and communication This book provides the latest research findings solutions and relevant theoretical

frameworks in blockchain technologies information security and privacy in computing and communication While highlighting the technology itself along with its applications and future outlook this book is ideal for IT specialists security analysts cybersecurity professionals researchers academicians students scientists and IT sector industry practitioners looking for research exposure and new ideas in the field of blockchain

13th International Conference on Biomedical Engineering
Chwee Teck Lim, James Goh Cho Hong, 2009-03-15

th On behalf of the organizing committee of the 13 International Conference on Biomedical Engineering I extend our warmest welcome to you This series of conference began in 1983 and is jointly organized by the YLL School of Medicine and Faculty of Engineering of the National University of Singapore and the Biomedical Engineering Society Singapore First of all I want to thank Mr Lim Chuan Poh Chairman A STAR who kindly agreed to be our Guest of Honour to give the Opening Address amidst his busy schedule I am delighted to report that the 13 ICBME has more than 600 participants from 40 countries We have received very high quality papers and inevitably we had to turn down some papers We have invited very prominent speakers and each one is an authority in their field of expertise I am grateful to each one of them for setting aside their valuable time to participate in this conference For the first time the Biomedical Engineering Society USA will be sponsoring two symposia ie Drug Delivery Systems and Systems Biology and Computational Bioengineering I am thankful to Prof Tom Skalak for his leadership in this initiative I would also like to acknowledge the contribution of Prof Takami Yamaguchi for organizing the NUS Tohoku's Global COE workshop within this conference Thanks also to Prof Fritz Bodem for organizing the symposium Space Flight Bioengineering This year's conference proceedings will be published by Springer as an IFMBE Proceedings Series

Multimedia and Sensory Input for Augmented, Mixed, and Virtual Reality Tyagi, Amit Kumar, 2021-01-08

Augmented and virtual reality AR and VR offer exciting opportunities for human computer interaction HCI the enhancement of places and new business cases Though VR is most popular for video games especially among younger generations AR and VR can also be used in applications that include military medical navigational tourism marketing and maintenance uses Research in these technologies along with 3D user interfaces has gained momentum in recent years and has solidified it as a staple technology for the foreseeable future Multimedia and Sensory Input for Augmented Mixed and Virtual Reality includes a collection of business case studies covering a variety of topics related to AR VR and mixed reality MR including their use in possible applications This book also touches on the diverse uses of AR and VR in many industries and discusses their importance challenges and opportunities While discussing the use of these technologies in sectors such as education healthcare and computer science this book is ideal for computer scientists engineers practitioners stakeholders researchers academicians and students who are interested in the latest research on augmented mixed and virtual reality

Whispering the Techniques of Language: An Mental Journey through **Anna University Vlsi University Question Paper**

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