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Question Paper Code : 71393

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2015.

Sixth Semester

Computer Science and Engineering

CS 2354/CS 64/10144 CS 604 — ADVANCED COMPUTER ARCHITECTURE

(Regulation 2008/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Briefly describe data hazards.
2. Point out the different types of data dependences.
3. Differentiate between VLIW and EPIC Processors.
4. Briefly describe about the Register Stack Mechanism in IA-64 Register model.
5. What is the use of branch prediction buffer?
6. Write a note on multiprocessor cache coherence.
7. Point out how RAID can improve the performance of I/O.
8. What is the need to implement memory as a hierarchy?
9. Enlist the features of SMT Architecture.
10. Point out the advantages and disadvantages of heterogeneous multi-core processors.

PART B — (5 × 16 = 80 marks)

11. (a) Explain how compiler technology can be used to enhance a processor's ability to exploit ILP.

Or

- (b) What are the different ways for branch prediction? Discuss how pipeline performance issues can be reduced by branch prediction.

Anna University Computer Architecture Question Paper

**Tapio Elomaa, Heikki Mannila, Pekka
Orponen**



Anna University Computer Architecture Question Paper:

Computer Fundamentals Manish Soni, 2024-11-13 In the vast landscape of modern technology understanding the fundamentals of computing is akin to possessing a master key that unlocks a world of possibilities This book dedicated to the exploration of computer fundamentals serves as your gateway to comprehending the intricacies of these ubiquitous machines Knowledge of computer fundamentals is not a mere luxury it is an indispensable tool in the arsenal of modern life Whether you re a seasoned professional seeking to deepen your understanding or a curious novice embarking on your first foray into the realm of computing this book is tailored to meet your needs As your companion in this voyage of discovery we offer not just knowledge but guidance Whether you seek to bolster your technical prowess embark on a career in technology or simply satiate your intellectual curiosity this book stands ready to accompany you every step of the way Computers have revolutionised the way we live work and communicate From smartphones and tablets to sophisticated data centres the impact of computing is felt in virtually every aspect of modern society A solid grasp of computer fundamentals not only empowers you to navigate this digital landscape with confidence but also opens doors to countless opportunities in various fields In this book we embark on a journey to explore the fundamental principles that underpin the world of computing Starting with a historical overview of the evolution of computers we delve into the essential components of computer hardware and software covering topics such as data representation operating systems networking logic gates and many more Now the question comes Who Should Read This Book The readership of a Computer Fundamental book extends beyond mere enthusiasts it caters to a diverse array of individuals whose pursuits intersect with the realms of technology and information Targeting a broad spectrum of learners this tome is indispensable for aspiring technocrats ambitious students enterprising professionals and curious minds alike Students traversing the hallowed halls of academia find solace in its pages as it encapsulates the requisite knowledge for mastering computer science fundamentals Armed with this arsenal of understanding they tackle assignments ace examinations and prepare themselves for the rigors of a burgeoning tech industry where innovation and adaptability reign supreme Seasoned professionals entrenched in the trenches of corporate warfare unearth in its depths a trove of wisdom to augment their skill set From IT consultants grappling with complex infrastructure dilemmas to cybersecurity experts fortifying digital fortresses against insidious threats this text serves as a beacon of enlightenment illuminating pathways to professional growth and excellence

Ubiquitous Technologies for Human Development and Knowledge Management Rahman, Hakikur, 2021-04-23 In recent decades digital technologies have permeated daily routines whether at school at work or during personal engagements Stakeholders in education are promoting innovative pedagogical practices the business sector is utilizing updated processes Even the public is improving their lifestyles by utilizing innovative technology In a knowledge construction setting technology becomes a tool to assist the user to access information communicate information and collaborate with others towards human development and

knowledge management In this context ubiquitous computing has emerged to support humans in their daily life activities in a personal unattended and remote manner Ubiquitous Technologies for Human Development and Knowledge Management serves as an authoritative reference source for the latest scholarly research on the widespread incorporation of technological innovations around the globe It examines how the application of ubiquitous computing technologies affects various aspects of human lives specifically in human development and knowledge management The chapters demonstrate how these ubiquitous technologies networks and associated systems have proliferated and have woven themselves into the very framework of everyday life It covers categorized investigations ranging from e governance knowledge management ICTs public services innovation and ethics This book is essential for ICT specialists technologists teachers instructional designers practitioners researchers academicians and students interested in the latest technologies and how they are impacting human development and knowledge management across different disciplines

Operating System (For Anna) Rohit Khurana, 2011 Operating System is an insightful work that elaborates on fundamentals as well as advanced topics of the discipline It offers an in depth coverage of concepts design and functions of an operating system irrespective of the hardware used With neat illustrations and examples and presentation of difficult concepts in the simplest form the aim is to make the subject crystal clear to the students and the book extremely student friendly

Handbook of Research on Innovations and Applications of AI, IoT, and Cognitive Technologies Zhao, Jingyuan, Kumar, V. Vinodh, 2021-06-25 Recently artificial intelligence AI the internet of things IoT and cognitive technologies have successfully been applied to various research domains including computer vision natural language processing voice recognition and more In addition AI with IoT has made a significant breakthrough and a shift in technical direction to achieve high efficiency and adaptability in a variety of new applications On the other hand network design and optimization for AI applications addresses a complementary topic namely the support of AI based systems through novel networking techniques including new architectures as well as performance models for IoT systems IoT has paved the way to a plethora of new application domains at the same time posing several challenges as a multitude of devices protocols communication channels architectures and middleware exist Big data generated by these devices calls for advanced learning and data mining techniques to effectively understand learn and reason with this volume of information such as cognitive technologies Cognitive technologies play a major role in developing successful cognitive systems which mimic cognitive functions associated with human intelligence such as learning and problem solving Thus there is a continuing demand for recent research in these two linked fields The Handbook of Research on Innovations and Applications of AI IoT and Cognitive Technologies discusses the latest innovations and applications of AI IoT and cognitive based smart systems The chapters cover the intersection of these three fields in emerging and developed economies in terms of their respective development situation public policies technologies and intellectual capital innovation systems competition and strategies marketing and growth capability and governance and relegation models These applications span areas such as

healthcare security and privacy industrial systems multidisciplinary sciences and more This book is ideal for technologists IT specialists policymakers government officials academics students and practitioners interested in the experiences of innovations and applications of AI IoT and cognitive technologies

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

Algorithms and Applications Tapio Elomaa,Heikki Mannila,Pekka Orponen,2010-04-08 For many years Esko Ukkonen has played a major role in the advancement of computer science in Finland He was the key person in the development of the school of algorithmic research and has contributed considerably to post graduate education in his country Esko Ukkonen has over the years worked within many areas of computer science including numerical methods complexity theory theoretical aspects of compiler construction and logic programming However the main focus of his research has been on algorithms and their applications This Festschrift volume published to honor Esko Ukkonen on his 60th birthday includes 18 refereed contributions by his former PhD students and colleagues with whom he has cooperated closely during the course of his career The Festschrift was presented to Esko during a festive symposium organized at the University of Helsinki to celebrate his birthday The essays primarily present research on computational pattern matching and string algorithms two areas that have benefited significantly from the work of Esko Ukonen

MOBILE COMPUTING Dr.J.Martin Sahayaraj,Dr. N.Dhasarathan,Dr. N.S.S Ramachandra Murthy,Dr. S.R.Boselin Prabhu ,Dr. J. Suresh,2019-09-12 Unit 1 Covers Mobile Computing Mobile Computing wireless Networking Mobile Computing Applications Characteristics of Mobile computing Structure of Mobile Computing Application MAC Protocols Wireless MAC Issues Fixed Assignment Schemes Random Assignment Schemes Reservation Based Schemes Unit 2 Covers Overview of Mobile IP Features of Mobile IP Key Mechanism in Mobile IP route Optimization Overview of TCP IP Architecture of TCP IP Adaptation of TCP Window Improvement in TCP Performance Unit 3 Covers Global System for Mobile Communication GSM General Packet Radio Service GPRS Universal Mobile Telecommunication System UMTS Unit 4 Covers Ad Hoc Basic Concepts Characteristics Applications Design Issues Routing Essential of Traditional Routing Protocols Popular Routing Protocols Vehicular Ad Hoc networks VANET MANET Vs

VANET Security Unit 5 Covers Mobile Device Operating Systems Special Constrains Requirements Commercial Mobile Operating Systems Software Development Kit IOS Android BlackBerry Windows Phone M Commerce Structure Pros Cons Mobile Payment System Security Issues *Scientific and Technical Aerospace Reports* ,1993 **System Software M.** Joseph,2007 New Trends in Computer Technologies and Applications Sun-Yuan Hsieh,Ling-Ju Hung,Ralf Klasing,Chia-Wei Lee,Sheng-Lung Peng,2023-02-09 This book constitutes the refereed proceedings of the 25th International Computer Symposium on New Trends in Computer Technologies and Applications ICS 2022 which took place in Taoyuan Taiwan in December 2022 ICS is one of the largest joint international IT symposia held in Taiwan Founded in 1973 it is intended to provide a forum for researchers educators and professionals to exchange their discoveries and practices and to explore future trends and applications in computer technologies The biannual symposium offers a great opportunity to share research experiences and to discuss potential new trends in the IT industry The 58 full papers and one invited paper presented in this volume were carefully reviewed and selected from 137 submissions The papers have been organized in the following topical sections Invited Paper Algorithms Bioinformatics and Computation Theory Cloud Computing and Big Data Computer Vision and Image Processing Cryptography and Information Security Electronics and Information Technology Mobile Computation and Wireless Communication Ubiquitous Cybersecurity and Forensics **Medical Image Computing and Computer Assisted Intervention - MICCAI 2024 Workshops** Anna Schroder,Xiang Li,Tanveer Syeda-Mahmood,Neil P. Oxtoby,Alexandra Young,Alessa Hering,Tejas S. Mathai,Pritam Mukherjee,Sven Kuckertz,Tiantian He,Isaac Llorente-Saguer,Andreas Maier,Satyananda Kashyap,Hayit Greenspan,Anant Madabhushi,2025-04-12 This book constitutes the proceedings from the workshops LDTM 2024 MMMI ML4MHD 2024 and ML CDS 2024 which were held in conjunction with the 27th International Conference on Medical Image Computing and Computer Assisted Intervention MICCAI 2024 in Marrakesh Morocco in October 2024 The papers included in this book stem from the following workshops LDTM 2024 Workshop on Longitudinal Disease Tracking and Modeling with Medical Images and Data which accepted 13 papers from 15 submissions MMMI ML4MHD 2024 the 5th International Workshop on Multiscale Multimodal Medical Imaging MMMI 2024 and the First Workshop on Machine Learning for Multimodal sensor Healthcare Data ML4MHD2024 from which 8 papers are included from a total of 14 submissions to the workshop ML CDS 2024 Workshop on Multimodal Learning and Fusion Across Scales for Clinical Decision Support which accepted 4 papers out of 5 submissions **Artificial Intelligence Methods in Intelligent Algorithms** Radek Silhavy,2019-05-04 This book discusses the current trends in and applications of artificial intelligence research in intelligent systems Including the proceedings of the Artificial Intelligence Methods in Intelligent Algorithms Section of the 8th Computer Science On line Conference 2019 CSOC 2019 held in April 2019 it features papers on neural networks algorithms optimisation algorithms and real world issues related to the application of artificial methods Contributions of Romance Languages to Current Linguistic Theory Deborah L. Arteaga,2019-03-18 This volume presents

novel analyses of morphosyntax and phonology by well known scholars in their respective fields The book offers chapters on a range of Romance languages and dialects including Canadian French Standard French Modern French Sardinian Sicilian and Spanish Other chapters focus on diachronic topics on French and Italian The volume will be of interest to researchers looking for current research in linguistics on the Romance languages It will also serve as a reference volume or supplemental reading for graduate students and advanced undergraduate students in linguistics **Resources in Education** ,1993

The Hindu Index ,2006 Current Catalog National Library of Medicine (U.S.),1982 First multi year cumulation covers six years 1965 70 *National Library of Medicine Current Catalog* National Library of Medicine (U.S.),1982

Computational Solutions for Knowledge, Art, and Entertainment: Information Exchange Beyond Text Ursyn, Anna,2013-10-31 As interactive application software such as apps installations and multimedia presentations have become pervasive in everyday life more and more computer scientists engineers and technology experts acknowledge the influence that exists beyond visual explanations *Computational Solutions for Knowledge Art and Entertainment Information Exchange Beyond Text* focuses on the methods of depicting knowledge based concepts in order to assert power beyond a visual explanation of scientific and computational notions This book combines formal descriptions with graphical presentations and encourages readers to interact by creating visual solutions for science related concepts and presenting data This reference is essential for researchers computer scientists and academics focusing on the integration of science technology computing art and mathematics for visual problem solving **VI CONGRESO INTERNACIONAL DE SINESTESIA, CIENCIA Y ARTE 2018 + ACTIVIDADES PARALELAS** María José de Córdoba Serrano,Dina Riccò,Sean A Day,Anton Sidoroff Dorso,Joerg jewanski,Timothy B Leyden,Victor Parra,Julia López de la Torre,Carlucci,et al,2018-05-01 ACTAS DEL VI CONGRESO INTERNACIONAL DE SINESTESIA CIENCIA Y ARTE ACTIVIDADES PARALELAS 2018 Alcal la Real Ja n Espa a Sedes Convento de Capuchinos Palacio Abacial Teatro Mart nez Monta s Alcal la Real Ja n y Conservatorio Superior de M sica Victoria Eugenia Granada Espa a Facultad de Bellas Artes UGR Granada Espa a Versi n digital Abril de 2018 Primera Edici n First edition April 2018 E book ISBN 978 84 948665 0 0 Comit editorial M Jos de C rdoba Serrano Julia L pez de la Torre Lucha Timothy B Leyden Dise o imagen tr pticos de promoci n y cartel V ctor Parra Editorial Fundaci n Internacional Artecitt Granada 2018 C Doctor Medina Olmos n 44 18015 Granada Espa a info artecitta es <http://www.artecitta.es> Nota aclaratoria E book interactivo Formato PDF Todo el material recogido en este libro de Actas est protegido por copyright ley internacional y no debe ser reproducido distribuido ni publicado sin el permiso expreso solicitado previamente a sus autores All materials contained on this Book are protected by International copyright laws and cannot be reproduced distributed transmitted displayed published or broadcasted without the prior written permission of the publisher Los textos se presentan como han sido enviados por los congresistas investigadores respetando si han querido publicar sus textos completos o s lo los res menes Comit Organizador Organization Committee Comit de direcci n Dra M Jos de C rdoba F I A C y UGR Coordinador

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Quantification Anna Szabolcsi, 2010-01-17 Quantification forms a significant aspect of cross linguistic research into both sentence structure and meaning This book surveys research in quantification starting with the foundational work in the 1970s It paints a vivid picture of generalized quantifiers and Boolean semantics It explains how the discovery of diverse scope behaviour in the 1990s transformed the view of quantification and how the study of the internal composition of quantifiers has become central in recent years It presents different approaches to the same problems and links modern logic and formal semantics to advances in generative syntax A unique feature of the book is that it systematically brings cross linguistic data to bear on the theoretical issues covering French German Dutch Hungarian Russian Japanese Telugu Dravidian and Shupamem Grassfield Bantu and points to formal semantic literature involving quantification in around thirty languages

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Table of Contents Anna University Computer Architecture Question Paper

1. Understanding the eBook Anna University Computer Architecture Question Paper
 - The Rise of Digital Reading Anna University Computer Architecture Question Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Anna University Computer Architecture Question Paper
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Anna University Computer Architecture Question Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Anna University Computer Architecture Question Paper

- Personalized Recommendations
- Anna University Computer Architecture Question Paper User Reviews and Ratings
- Anna University Computer Architecture Question Paper and Bestseller Lists
- 5. Accessing Anna University Computer Architecture Question Paper Free and Paid eBooks
 - Anna University Computer Architecture Question Paper Public Domain eBooks
 - Anna University Computer Architecture Question Paper eBook Subscription Services
 - Anna University Computer Architecture Question Paper Budget-Friendly Options
- 6. Navigating Anna University Computer Architecture Question Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Anna University Computer Architecture Question Paper Compatibility with Devices
 - Anna University Computer Architecture Question Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Anna University Computer Architecture Question Paper
 - Highlighting and Note-Taking Anna University Computer Architecture Question Paper
 - Interactive Elements Anna University Computer Architecture Question Paper
- 8. Staying Engaged with Anna University Computer Architecture Question Paper
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Anna University Computer Architecture Question Paper
- 9. Balancing eBooks and Physical Books Anna University Computer Architecture Question Paper
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Anna University Computer Architecture Question Paper
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Anna University Computer Architecture Question Paper
 - Setting Reading Goals Anna University Computer Architecture Question Paper
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Anna University Computer Architecture Question Paper

- Fact-Checking eBook Content of Anna University Computer Architecture Question Paper
- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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