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description if you wish to have a bright future in any profession today you cannot ignore having sound foundation in information technology it hence you cannot ignore to have this book because it provides comprehensive coverage of all important topics in it foundations of computing is designed to introduce through a single book the important concepts of the foundation courses in computer science cs computer applications ca and information technology it programs taught at undergraduate and postgraduate levels what you will learn characteristics evolution and classification of computers binary octal and hexadecimal number systems computer codes and binary arithmetic boolean algebra logic gates flip flops and design of combinational and sequential circuits computer architecture including design of cpu memory secondary storage and i o devices computer software how to acquire software and the commonly used tools and techniques for planning developing implementing and operating software systems programming languages operating systems communication technologies computer networks multimedia computing and information security database and data science technologies the internet internet of things iot e governance geo informatics medical informatics bioinformatics and many more who this book is for students of cs ca and it will find the book suitable for use as a textbook or reference book professionals will find it suitable for use as a reference book for topics in cs ca and it applicants preparing for various entrance tests and competitive examinations will find it suitable for clearing their concepts of cs ca and it anyone else interested in developing a clear understanding of the important concepts of various topics in cs ca and it will also find this book useful table of contents letter to readers preface about lecture notes presentation slides abbreviations 1 characteristics evolution and classification of computers 2 internal data representation in computers 3 digital systems design 4 computer architecture 5 secondary storage 6 input output devices 7 software 8 planning the computer program 9 programming languages 10 operating systems 11 database and data science 12 data communications and computer networks 13 the internet and internet of things 14 multimedia computing 15 information security 16 application domains glossary index know your author

this widely popular book is designed to introduce its readers to important concepts in computer science

the book data intensive computing applications for big data discusses the technical concepts of big data data intensive computing through machine learning soft computing and parallel computing paradigms it brings together researchers to report their latest results or progress in the development of the above mentioned areas since there are few books on this specific subject the editors aim to provide a common platform for researchers working in this area to exhibit their novel findings the book is intended as a reference work for

advanced undergraduates and graduate students as well as multidisciplinary interdisciplinary and transdisciplinary research workers and scientists on the subjects of big data and cloud parallel and distributed computing and explains didactically many of the core concepts of these approaches for practical applications it is organized into 24 chapters providing a comprehensive overview of big data analysis using parallel computing and addresses the complete data science workflow in the cloud as well as dealing with privacy issues and the challenges faced in a data intensive cloud computing environment the book explores both fundamental and high level concepts and will serve as a manual for those in the industry while also helping beginners to understand the basic and advanced aspects of big data and cloud computing

papers presented at an all india seminar on advances in product development
17 18 february 2006

this book presents 53 selected papers focused on deep learning and large language models from the 14th international conference on innovations in bio inspired computing and applications ibica 2023 and 13th world congress on information and communication technologies wict 2023 which was held in five different cities namely olten switzerland porto portugal kaunas lithuania greater noida india kochi india and in online mode the 23rd international conference on hybrid intelligent systems ibica wict 2023 was focusing on synergistic combinations of multiple approaches to develop the next generation of bio inspired computing and ict systems ibica wict 2023 had contributions by authors from 36 countries this book offers a valuable reference guide for all scientists academicians researchers students and practitioners focused on advanced machine learning including deep learning methods large language models and its real world applications

the highly praised book in communications networking from ieee press now available in the eastern economy edition this is a non mathematical introduction to distributed operating systems explaining the fundamental concepts and design principles of this emerging technology as a textbook for students and as a self study text for systems managers and software engineers this book provides a concise and an informal introduction to the subject

this book presents soft computing techniques and applications used in healthcare systems along with the latest advancements written as a guide for assessing the roles that these techniques play the book also highlights implementation strategies lists problem solving solutions and paves the way for future research endeavors in smart and next generation healthcare systems this book provides applications of soft computing techniques related to healthcare systems and can be used as a reference guide for assessing the roles that various techniques such as machine learning fuzzy logic and statical

mathematics play in the advancements of smart healthcare systems the book presents the basics as well as the advanced concepts to help beginners as well as industry professionals get up to speed on the latest developments in healthcare systems the book examines descriptive predictive and social network techniques and discusses analytical tools and the important role they play in finding solutions to problems in healthcare systems a framework of robust and novel healthcare techniques is highlighted as well as implementation strategies and a setup for future research endeavors healthcare systems using soft computing techniques is a valuable resource for researchers and postgraduate students in healthcare systems engineering computer science information technology and applied mathematics the book introduces beginners to and at the same time brings industry professionals up to speed with the important role soft computing techniques play in smart healthcare systems

written in a style that breaks the barriers between the disciplines this monograph enables researchers from life science physics engineering or chemistry to access the most recent results in a common language the resulting review character of this project sets it apart from specialized journals and allows each volume to respond quickly to new developments this third volume contains new topics ranging from chaotic computing via random dice tossing and stochastic limit cycle oscillators to a number theoretic example of self organized criticality wave localization in complex networks and anomalous diffusion a first class board of international scientists advises the editor such that the carefully selected and invited contributions represent the latest and most relevant findings

the two volume set ccis 775 and 776 constitutes the refereed proceedings of the first international conference on computational intelligence communications and business analytics cicba 2017 held in kolkata india in march 2017 the 90 revised full papers presented in the two volumes were carefully reviewed and selected from 276 submissions the papers are organized in topical sections on data science and advanced data analytics signal processing and communications microelectronics sensors intelligent networks computational forensics privacy and security computational intelligence in bio computing computational intelligence in mobile and quantum computing intelligent data mining and data warehousing computational intelligence

covers the latest methodologies and research on international comparative surveys with contributions from noted experts in the field advances in comparative survey methodology examines the most recent advances in methodology and operations as well as the technical developments in international survey research with contributions from a panel of international

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