

COMPUTER SCIENCE : CLASS XI : CHAPTER - 3

- Digital economy.
- » Artificial Intelligence (AI)
- » Big Data
- » Internet of Things (IoT)
- **ARTIFICIAL INTELLIGENCE (AI) :**
 - The intelligent digital personal assistants like Siri, Google Now, Cortana, Alexa are all powered by AI.
 - Artificial Intelligence endeavours to simulate the natural intelligence of human beings into machines, thus making them behave intelligently. An intelligent machine is supposed to imitate some of the cognitive functions of humans like learning, decision making and problem solving. In order to make machines perform tasks with minimal human intervention, they are programmed to create a knowledge base and make decisions based on it. AI systems can also learn from past experiences or outcomes to make new decisions.
- **Machine Learning :**
 - Machine Learning is a subsystem of Artificial Intelligence, wherein computers have the ability to learn from data using statistical techniques, without being explicitly programmed by a human being. It comprises algorithms that use data to learn on their own and make predictions. These algorithms, called models, are first trained and tested using training data and testing data, respectively. After successive training, once these models are able to give results to an acceptable level of accuracy, they are used to make predictions about new and unknown data.
- (A) Virtual Reality.
- (B) Augmented Reality.
- **Robotics** is an interdisciplinary branch of technology requiring applications of mechanical engineering, electronics, and computer science, among others. Robotics is primarily concerned with the design, fabrication, operation, and application of robots.
- **Robots** can be of many types, such as wheeled robots, legged robots, manipulators and humanoids. Robots that resemble humans are known as humanoids. Robots are being used in industries, medical science, bionics, scientific research, military, etc. Some examples are:
 - NASA's Mars Exploration Rover (MER) mission is a robotic space mission to study about the planet Mars.
 - Sophia is a humanoid that uses artificial intelligence, visual data processing, facial recognition and also imitates human gestures and facial expressions.
 - A drone is an unmanned aircraft which can be remotely controlled or can fly autonomously through software-controlled flight plans in their embedded systems, working in conjunction with onboard sensors and GPS. They are being used in many fields, such as journalism, filming and aerial photography, shipping or delivery at short distances, disaster management, search and rescue operations, healthcare, geographic mapping and structural safety inspections, agriculture, wildlife monitoring or poaching, besides law-enforcement and border patrolling.
- **INTERNET OF THINGS (IoT) :**
 - The 'Internet of Things' is a network of devices that have embedded hardware and software to communicate (connect and exchange data) with other devices on the same network.
- » Cloud Computing
- » Grid Computing
- » Blockchains

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Lingsheng Yao



Notes For Computer Science Class Xii Pdfdocuments:

Information Security in a Connected World Colin Boyd,Reihaneh Safavi-Naini,Leonie Simpson,2025-03-12 This Festschrift is a celebration of Ed Dawson's life and impact on research teaching and leadership Ed originally trained as a mathematician and first worked as a schoolteacher before joining Queensland Institute later University of Technology where he engaged with the emerging world of applied cryptology He first concentrated on symmetric key cryptography analyzing randomness searching for new building blocks and designing cryptographic engines he later expanded his interests to public key cryptography with a particular focus on the implementation aspects of elliptic curves Ed was made a Fellow of the IACR for his visionary service and for fostering the Asia Pacific cryptographic community He cofounded conferences workshops courses and communities first in Australia and then throughout the Pacific Rim Ed's instincts and experiences were always interdisciplinary and he developed successful networks of researchers and practitioners in mathematics computer science engineering business and law In recent years he broadened his expertise to incorporate the human socio technical aspects of security Throughout his career Ed was a noted teacher mentor and motivator building and encouraging teams with effort knowledge enthusiasm and humor His successes are reflected in the papers contributed to this volume *Post-Quantum Cryptography* Bo-Yin Yang,2011-11-25 This book constitutes the refereed proceedings of the 4th International Workshop on Post Quantum Cryptography PQCrypto 2011 held in Taipei Taiwan in November December 2011 The 18 revised full papers presented were carefully reviewed and selected from 38 submissions The papers cover a wide range of topics in the field of post quantum public key cryptosystems such as cryptosystems that have the potential to resist possible future quantum computers classical and quantum attacks and security models for the post quantum era *Radio Frequency Identification System Security* C. Ma,J. Weng,2013-11-07 Our reliance on ever more sophisticated computer systems for the management of data and information means that the field of security and privacy technology continues to be of crucial importance to us all This book presents ten peer reviewed papers from the 2013 workshop Radio Frequency Identification Internet of Things Security RFIDsec 13 Asia held in Guangzhou China in November 2013 This is the fifth of a series of workshops organized by the Asian branch of RFIDsec which provides a platform for researchers enterprises and governments to investigate discuss and propose new solutions for the security and privacy issues related to RFID IoT technologies and applications Topics covered include RFID authentication mutual authentication and ownership transfer security of RFID applications NFC and the Internet of Things as well as side channel attacks The book will be of interest to all those whose work involves the security aspects of information management *Computing Professionals* National Research Council,Division on Engineering and Physical Sciences,Office of Scientific and Engineering Personnel,Computer Science and Telecommunications Board,A Workshop Prepared by the Steering Committee on Human Resources in Computer Science and Technology,1993-02-01 Surprisingly little is known about the people responsible for advancing the science technology and application of computing

systems despite their critical roles in the U S economy As a group they can be referred to as computing professionals But that label masks an unusually wide range of occupations To add to the confusion the nature of these occupations is changing rapidly in response to dramatic advances in technology Building from discussions at a workshop this book explores the number composition demand and supply of computing professionals in the United States It identifies key issues and sources of data and illuminates options for improving our understanding of these important occupational groups Monthly Catalogue, United States Public Documents ,2005 Evolving the High Performance Computing and Communications Initiative to Support the Nation's Information Infrastructure National Research Council,Computer Science and Telecommunications Board,Committee to Study High Performance Computing and Communications: Status of a Major Initiative,1995-03-27 Maintaining the United States strong lead in information technology will require continued federal support of research in this area most of which is currently funded under the High Performance Computing and Communications Initiative HPCCI The Initiative has already accomplished a great deal and should be continued This book provides 13 major recommendations for refining both HPCCI and support of information technology research in general It also provides a good overview of the development of HPCC technologies Groupware: Design, Implementation, and Use Yannis A. Dimitriadis,Ilze Zigurs,Eduardo Gómez-Sánchez,2006-09-09 This book constitutes the refereed proceedings of the 12th International Workshop on Groupware CRIWG 2006 The book presents 21 revised full papers and 13 revised short papers carefully reviewed and selected from 99 submissions Topical sections include collaborative applications and group interaction group awareness computer supported collaborative learning languages and tools supporting collaboration groupware development frameworks and toolkits collaborative workspaces web based cooperative environments mobile collaborative work and collaborative design **Shadows of Cavernous Shades** Erik Persson,2002 *ACM SIGPLAN Notices* ,2005-07 Programming Languages and Systems ,2005 **Education 2.0** Linda Herrera,2025-11-17 Education 2 0 offers a compelling portrait of Egypt s bold attempt to overhaul its public education system amid sweeping political and technological transformation Drawing on extensive oral history interviews this book traces the launch and rollout of the New Education System initiated by the Ministry of Education in 2018 designed to modernize curriculum pedagogy and assessment in the digital age and change the culture of learning The volume moves fluidly from macro level state planning to the lived experiences of teachers and students exploring the promises and pitfalls of top down reform Conducted partly during the COVID 19 pandemic the research captures Egypt s first large scale experiment with hybrid and distance learning Interviews with key actors from policymakers and tech developers to students and educators reveal competing visions unintended consequences and the challenges of culturally transforming education systems in a middle income country where private tutoring is rife the sector is chronically under resourced and politics overshadows policy This book is essential reading for scholars practitioners and policymakers interested in education reform digital transformation and the role of the state in

shaping learning futures in the Global South It is also an excellent case study for courses in Middle East studies and comparative and international education [Quick Reference for Counselors](#) ,2011 **Proceedings** ,2005

Agent-oriented Software Engineering ... ,2001 **Bionanotechnology: Engineering Concepts and Applications** Jie Chen,Yiwei Feng,Scott MacKay,2022-05-06 Understand the principles practices and applications of bionanotechnology This hands on textbook covers key aspects of bionanotechnology from an engineering perspective The book delves into a wide variety of topics including materials science micro nano fabrication general physics fluid flow electromagnetics thermodynamics molecular biology immunology biochemistry and organic chemistry Developed from an advanced engineering course taught by its authors Bionanotechnology Engineering Concepts and Applications fully explains all of the underlying concepts and shows how that theory can be directly applied in practical applications Readers will get examples problem sets real world case studies and engineering design methodologies that illustrate each concept The book contains complete discussions on microfluidics lab on a chip devices organ on a chip devices quantum dots DNA RNA technology micro nano fabrication techniques the modelling simulation of microsystems and bionanotechnology based biosensors targeted therapies and drug delivery systems Combines many different bionanotechnology topics into one resource Based on a course developed and taught by the authors at the University of Alberta Written by recognized experts and experienced educators [Computer and Information Sciences - ISCIS ...](#) ,2005 **Journal of Object-oriented Programming** ,2000

The Emerging Semantic Web Isabel F. Cruz,2002 The Semantic Web is a Web defined and linked in a way that it can be used by machines not just for display purposes but also for automation integration and reuse of data across various applications This work presents technologies that will enable the Semantic Web to become a reality [Theorem Proving in Higher Order Logics](#) ,2004 [ACM Transactions on Programming Languages and Systems](#) Association for Computing Machinery,2005 Contains articles on programming languages and their semantics programming systems storage allocations and garbage collection languages and methods for writing specifications testing and verification methods and algorithms specifically related to the implementation of language processors

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