Dynamic Binary Optimization Ku Ittc

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DNA Profiling and DNA Fingerprinting - Jörg Epplen 2012-12-11
This manual presents practical approaches to using DNA fingerprinting and genetic profiling to answer a variety of biological and medical questions. It provides detailed methodology for setting up and performing experiments and evaluating results. Extensive troubleshooting tips, helpful hints, and advice for daily practice are also included. This will be a useful guide for scientists and researchers engaged in genetic identification and relationship analyses.

Passive and Active Network Measurement - Steve Uhlig 2007-06-30

This book constitutes the refereed proceedings of the 8th International Conference on Passive and Active Measurement, PAM 2007, held in Louvain-la-Neuve, Belgium, April 2007. Coverage focuses on research and practical applications of network measurement and analysis techniques, detailing interdomain routing, P2P, wireless 802.11, wireless 3G/CDMA/Bluetooth, infrastructure and services, traffic, and measurement principles.

Intelligent Data Engineering and Automated Learning – IDEAL 2019 - Hujun Yin 2019-11-07

This two-volume set of LNCS 11871 and 11872 constitutes the thoroughly refereed conference proceedings of the 20th International Conference on Intelligent Data Engineering and Automated Learning, IDEAL 2019, held in Manchester, UK, in November 2019. The 94 full papers presented were carefully reviewed and selected from 149 submissions. These papers provided a timely sample of the latest advances in data engineering and machine learning, from methodologies, frameworks, and algorithms to applications. The core themes of IDEAL 2019 include big data challenges, machine learning, data mining, information retrieval and management, bio-/neuro-informatics, bio-inspired models (including neural networks, evolutionary computation and swarm intelligence), agents and hybrid intelligent systems, real-world applications of intelligent techniques and AI.

Efficient Algorithms for MPEG Video Compression - Dzung Tien Hoang 2002-02-21

Video compression is the enabling technology behind many cutting-edge business and Internet applications, including video-conferencing, video-on-demand, and digital cable TV. Coauthored by internationally recognized authorities on the subject, this book takes a close look at the essential tools of video

compression, exploring some of the most promising algorithms for converting raw data to a compressed form.

Toward a Safer and More Secure Cyberspace - National Academy of Engineering 2007-10-24 Given the growing importance of cyberspace to nearly all aspects of national life, a secure cyberspace is vitally important to the nation, but cyberspace is far from secure today. The United States faces the real risk that adversaries will exploit vulnerabilities in the nationâ€™s critical information systems, thereby causing considerable suffering and damage. Online e-commerce business, government agency files, and identity records are all potential security targets. Toward a Safer and More Secure Cyberspace examines these Internet security vulnerabilities and offers a strategy for future research aimed at countering cyber attacks. It also explores the nature of online threats and some of the reasons why past research for improving cybersecurity has had less impact than anticipated, and considers the human resource base needed to advance the cybersecurity research agenda. This book will be an invaluable resource for Internet security professionals, information technologists, policy makers, data stewards, e-commerce providers, consumer protection advocates, and others interested in digital security and safety.

Linux Advanced Routing and Traffic Control HOWTO - Gregory Maxwell 2019-11-06 Summary This classic howto was written in 2002, but it is still a must-read howto for any Linux networking professionals today. Many practical examples are included in the book.It is a very hands−on approach to iproute2, traffic shaping, policy routing and a bit of netfilter.This is a book you should have on your bookshelf. Table of Contents Dedication Introduction Introduction to iproute2 Rules-routing policy database GRE and other tunnles IPv6 tunning with Cisco and/or 6bone IPSec:secure IP over the internet Multicast routing Queueing

Disciplines for Bandwdith Management Load sharing over multiple interfaces Netfilter & iproute - marking packets Advanced filters for (re-)classifying packets Kernel network parameters Advanced &less common queueing disciplines Cookbook Building bridges, and pseudo-bridges with Proxy ARP Dynamic routing - OSPF and BGP Other possibilities Further reading Acknowledgements

The Benefits of Plant Extracts for Human Health - Charalampos Proestos 2021-01-13

Nature has always been, and still is, a source of food and ingredients that are beneficial to human health. Nowadays, plant extracts are increasingly becoming important additives in the food industry due to their antimicrobial and antioxidant activities that delay the development of off-flavors and improve the shelf life and color stability of food products. Due to their natural origin, they are excellent candidates to replace synthetic compounds, which are generally considered to have toxicological and carcinogenic effects. The efficient extraction of these compounds from their natural sources and the determination of their activity in commercialized products have been great challenges for researchers and food chain contributors to develop products with positive effects on human health. The objective of this Special Issue is to highlight the existing evidence regarding the various potential benefits of the consumption of plant extracts and plant-extract-based products, with emphasis on in vivo works and epidemiological studies, the application of plant extracts to improving shelf life, the nutritional and health-related properties of foods, and the extraction techniques that can be used to obtain bioactive compounds from plant extracts.

Information Networking Advances in Data Communications and Wireless Networks - Ilyoung Chong 2006-11-07

This book constitutes the thoroughly refereed post-proceedings of the International

Conference on Information Networking, ICOIN 2006 held in Sendai, Japan in January 2006. The 98 revised full papers presented were carefully selected and improved during two rounds of reviewing and revision from a total of 468 submissions.

User Modeling 2005 - Liliana Ardissono 2005-08-25

The 33 revised full papers and 30 poster summaries presented together with papers of 12 selected doctoral consortium articles and the abstracts of 3 invited lectures were carefully reviewed and selected from 160 submissions. The book offers topical sections on adaptive hypermedia, affective computing, data mining for personalization and cross-recommendation, ITS and adaptive advice, modeling and recognizing human activity, multimodality and ubiquitous computing, recommender systems, student modeling, user modeling and interactive systems, and Web site navigation support.

The Theory of Computability - R. Sommerhalder 1988

GPU Computing and Applications - Yiyu Cai 2014-11-20

This book presents a collection of state of the art research on GPU Computing and Application. The major part of this book is selected from the work presented at the 2013 Symposium on GPU Computing and Applications held in Nanyang Technological University, Singapore (Oct 9, 2013). Three major domains of GPU application are covered in the book including (1) Engineering design and simulation; (2) Biomedical Sciences; and (3) Interactive & Digital Media. The book also addresses the fundamental issues in GPU computing with a focus on big data processing. Researchers and developers in GPU Computing and Applications will benefit from this book. Training professionals and educators can also benefit from this book to learn the possible application of GPU technology in various areas.

Adaptive Radar Resource Management - Peter Moo 2015-07-23

Radar Resource Management (RRM) is vital for optimizing the performance of modern phased array radars, which are the primary sensor for aircraft, ships, and land platforms. Adaptive Radar Resource Management gives an introduction to radar resource management (RRM), presenting a clear overview of different approaches and techniques, making it very suitable for radar practitioners and researchers in industry and universities. Coverage includes: RRM's role in optimizing the performance of modern phased array radars The advantages of adaptivity in implementing RRM The role that modelling and simulation plays in evaluating RRM performance Description of the simulation tool Adapt_MFR Detailed descriptions and performance results for specific adaptive RRM techniques The only book fully dedicated to adaptive RRM A comprehensive treatment of phased array radars and RRM, including task prioritization, radar scheduling, and adaptive track update rates Provides detailed knowledge of specific RRM techniques and their performance

The Adaptive Web - Peter Brusilovski 2007-04-24

This state-of-the-art survey provides a systematic overview of the ideas and techniques of the adaptive Web and serves as a central source of information for researchers, practitioners, and students. The volume constitutes a comprehensive and carefully planned collection of chapters that map out the most important areas of the adaptive Web, each solicited from the experts and leaders in the field.

Security and Privacy in Communication Networks - Noseong Park 2020-12-11

This two-volume set LNICST 335 and 336 constitutes the post-conference proceedings of the 16th International Conference on Security and Privacy in Communication Networks, SecureComm 2020, held in Washington, DC,

USA, in October 2020. The conference was held virtually due to COVID-19 pandemic. The 60 full papers were carefully reviewed and selected from 120 submissions. The papers focus on the latest scientific research results in security and privacy in wired, mobile, hybrid and ad hoc networks, in IoT technologies, in cyber-physical systems, in next-generation communication systems in web and systems security and in pervasive and ubiquitous computing.

Recent Advances in Mechatronics - Ryszard Jablonski 2007-09-19

This book presents recent state of advances in mechatronics presented on the 7th International Conference Mechatronics 2007, hosted at the Faculty of Mechatronics, Warsaw University of Technology, Poland. The selected papers give an overview of the state-of-the-art and present new research results and prospects of the future development in this interdisciplinary field of mechatronic systems.

Third International Congress on Information and Communication Technology - Simon Sherratt 2019

The book includes selected high-quality research papers presented at the Third International Congress on Information and Communication Technology held at Brunel University, London on February 27-28, 2018. It discusses emerging topics pertaining to information and communication technology (ICT) for managerial applications, e-governance, e-agriculture, e-education and computing technologies, the Internet of Things (IOT), and e-mining. Written by experts and researchers working on ICT, the book is suitable for new researchers involved in advanced studies.

Algorithms and Data Structures for External Memory - Jeffrey Scott Vitter 2008

Describes several useful paradigms for the design and implementation of efficient external memory (EM) algorithms and data structures. The problem domains considered include sorting, permuting, FFT, scientific computing,

computational geometry, graphs, databases, geographic information systems, and text and string processing.

Numerical and Evolutionary Optimization 2018 - Adriana Lara 2019-11-19

This book was established after the 6th International Workshop on Numerical and Evolutionary Optimization (NEO), representing a collection of papers on the intersection of the two research areas covered at this workshop: numerical optimization and evolutionary search techniques. While focusing on the design of fast and reliable methods lying across these two paradigms, the resulting techniques are strongly applicable to a broad class of real-world problems, such as pattern recognition, routing, energy, lines of production, prediction, and modeling, among others. This volume is intended to serve as a useful reference for mathematicians, engineers, and computer scientists to explore current issues and solutions emerging from these mathematical and computational methods and their applications.

Advances in Computer Systems Architecture - Lynn Choi 2007-08-21

The refereed proceedings of the 12th Asia-Pacific Computer Systems Architecture Conference are presented in this volume. Twenty-six full papers are presented together with two keynote and eight invited lectures. Collectively, they represent some of the most important developments in computer systems architecture. The papers emphasize hardware and software techniques for state-of-the-art, multi-core and multi-threaded architectures.

User Modeling 2003 - Peter Brusilovski 2003-06-05

The refereed proceedings of the 9th International Conference on User Modeling, UM 2003, held in Johnstown, PA, USA in June 2003. The 20 revised full papers and 28 revised poster papers presented together with 12 abstracts were carefully reviewed and selected from 106 submissions. The papers are organized in topical

sections on adaptive hypermedia, adaptive Web, natural language and dialogue, plan recognition, evaluation, emerging issues of user modeling, group modeling and cooperation, applications, student modeling, learning environments - natural language and paedagogy, and mobile and ubiquitous computing.

Virtual Machines - James Edward Smith 2005-06-03

In this text, Smith and Nair take a new approach by examining virtual machines as a unified discipline and pulling together cross-cutting technologies. Topics include instruction set emulation, dynamic program translation and optimization, high level virtual machines (including Java and CLI), and system virtual machines for both single-user systems and servers.

Combinatorial Algorithms on Words - Alberto Apostolico 2013-06-29

Combinatorial Algorithms on Words refers to the collection of manipulations of strings of symbols (words) - not necessarily from a finite alphabet - that exploit the combinatorial properties of the logical/physical input arrangement to achieve efficient computational performances. The model of computation may be any of the established serial paradigms (e.g. RAM's, Turing Machines), or one of the emerging parallel models (e.g. PRAM ,WRAM, Systolic Arrays, CCC). This book focuses on some of the accomplishments of recent years in such disparate areas as pattern matching, data compression, free groups, coding theory, parallel and VLSI computation, and symbolic dynamics; these share a common flavor, yet ltave not been examined together in the past. In addition to being theoretically interest ing, these studies have had significant applications. It happens that these works have all too frequently been carried out in isolation, with contributions addressing similar issues scattered throughout a rather diverse body of literature. We felt that it would be advantageous to both current and future researchers to collect

this work in a sin gle reference. It should be clear that the book's emphasis is on aspects of combinatorics and com plexity rather than logic, foundations, and decidability. In view of the large body of research and the degree of unity already achieved by studies in the theory of auto mata and formal languages, we have allocated very little space to them.

Intelligence and Security Informatics - Christopher C. Yang 2008-06-10

This book constitutes the refereed proceedings of the three international workshops PAISI 2008, PACCF 2008, and SOCO 2008, held as satellite events of the IEEE International Conference on Intelligence and Security Informatics, ISI 2008, in Taipei, Taiwan, in June 2008. The 55 revised full papers presented were carefully reviewed and selected from the presentations at the workshops. The 21 papers of the Pacific Asia Workshop on Intelligence and Security Informatics (PAISI 2008) cover topics such as information retrieval and event detection, internet security and cybercrime, currency and data protection, cryptography, image and video analysis, privacy issues, social networks, modeling and visualization, and network intrusion detection. The Pacific Asia Workshop on Cybercrime and Computer Forensics (PACCF 2008) furnishes 10 papers about forensic information management, forensic technologies, and forensic principles and tools. The 24 papers of the Workshop on Social Computing (SOCO 2008) are organized in topical sections on social web and social information management, social networks and agent-based modeling, as well as social opinions, e-commerce, security and privacy considerations.

Handbook of Accelerator Physics and Engineering - Alexander Wu Chao 2013

Edited by internationally recognized authorities in the field, this expanded and updated new edition of the bestselling Handbook, containing more than 100 new articles, is aimed at the design and operation of modern particle

accelerators. It is intended as a vade mecum for professional engineers and physicists engaged in these subjects. With a collection of more than 2000 equations, 300 illustrations and 500 graphs and tables, here one will find, in addition to the common formulae of previous compilations, hard-to-find, specialized formulae, recipes and material data pooled from the lifetime experience of many of the world''s most able practitioners of the art and science of accelerators.The eight chapters include both theoretical and practical matters as well as an extensive glossary of accelerator types. Chapters on beam dynamics and electromagnetic and nuclear interactions deal with linear and nonlinear single particle and collective effects including spin motion, beam-environment, beam-beam, beam-electron, beam-ion and intrabeam interactions. The impedance concept and related calculations are dealt with at length as are the instabilities associated with the various interactions mentioned. A chapter on operational considerations includes discussions on the assessment and correction of orbit and optics errors, real-time feedbacks, generation of short photon pulses, bunch compression, tuning of normal and superconducting linacs, energy recovery linacs, free electron lasers, cooling, space-charge compensation, brightness of light sources, collider luminosity optimization and collision schemes. Chapters on mechanical and electrical considerations present material data and important aspects of component design including heat transfer and refrigeration. Hardware systems for particle sources, feedback systems, confinement and acceleration (both normal conducting and superconducting) receive detailed treatment in a subsystems chapter, beam measurement techniques and apparatus being treated therein as well. The closing chapter gives data and methods for radiation protection computations as well as much data on radiation damage to various materials and devices.A detailed name and subject index is

provided together with reliable references to the literature where the most detailed information available on all subjects treated can be found.

Unmanned Aerial Vehicle: Applications in Agriculture and Environment - Ram Avtar 2019-11-18

This book showcases how new and emerging technologies like Unmanned Aerial Vehicles (UAVs) are trying to provide solutions to unresolved socio-economic and environmental problems. Unmanned vehicles can be classified into five different types according to their operation. These five types are unmanned ground vehicles, unmanned aerial vehicles, unmanned surface vehicles (operating on the surface of the water), unmanned underwater vehicles, and unmanned spacecraft. Unmanned vehicles can be guided remotely or function as autonomous vehicles. The technology has a wide range of uses including agriculture, industry, transport, communication, surveillance and environment applications. UAVs are widely used in precision agriculture; from monitoring the crops to crop damage assessment. This book explains the different methods in which they are used, providing step-by-step image processing and sample data. It also discusses how smart UAVs will provide unique opportunities for manufacturers to utilise new technological trends to overcome the current challenges of UAV applications. The book will be of great interest to researchers engaged in forest carbon measurement, road patrolling, plantation monitoring, crop yield estimation, crop damage assessment, terrain modelling, fertilizer control, and pest control.

Intelligence and Security Informatics - Hsinchun Chen 2004-08-24

The past two years have seen signi?cant interest and progress made in national and homeland security research in the areas of information technologies, orga- zational studies, and security-related public policy. Like medical and biological research, which is facing signi?cant

information overload and yet also trem- dous opportunities for new innovation, the communities of law enforcement, criminal analysis, and intelligence are facing the same challenge. As medical - formatics and bioinformatics have become major ?elds of study, the science of "intelligence and security informatics" is now emerging and attracting interest from academic researchers in related ?elds as well as practitioners from both government agencies and industry. Broadly de?ned, intelligence and security informatics is the study of the - velopmentanduseofadvancedinformationtechnologiesandsystemsfornational and homeland security related applications, through an integrated technological, organizational, and policy based approach. The First Symposium on Intelligence and Security Informatics (ISI2003) was held in June 2003 in Tucson, Arizona. It provided a stimulating intellectual forum of discussions among previously d- paratecommunities:academicresearchersininformationtechnologies,computer science, public policy, and social studies; local, state, and federal law enfor- ment and intelligence experts; and information technology industry consultants and practitioners. Building on the momentum of ISI2003, we held the Second Symposium on IntelligenceandSecurityInformatics(ISI2004)inJune2004inTucson,Arizona.

Building Embedded Linux Systems - Karim Yaghmour 2003-04-22

Linux® is being adopted by an increasing number of embedded systems developers, who have been won over by its sophisticated scheduling and networking, its cost-free license, its open development model, and the support offered by rich and powerful programming tools. While there is a great deal of hype surrounding the use of Linux in embedded systems, there is not a lot of practical information. Building Embedded Linux Systems is the first in-depth, hard-core guide to putting together an

embedded system based on the Linux kernel. This indispensable book features arcane and previously undocumented procedures for: Building your own GNU development toolchain Using an efficient embedded development framework Selecting, configuring, building, and installing a target-specific kernel Creating a complete target root filesystem Setting up, manipulating, and using solid-state storage devices Installing and configuring a bootloader for the target Cross-compiling a slew of utilities and packages Debugging your embedded system using a plethora of tools and techniques Details are provided for various target architectures and hardware configurations, including a thorough review of Linux's support for embedded hardware. All explanations rely on the use of open source and free software packages. By presenting how to build the operating system components from pristine sources and how to find more documentation or help, this book greatly simplifies the task of keeping complete control over one's embedded operating system, whether it be for technical or sound financial reasons.Author Karim Yaghmour, a well-known designer and speaker who is responsible for the Linux Trace Toolkit, starts by discussing the strengths and weaknesses of Linux as an embedded operating system. Licensing issues are included, followed by a discussion of the basics of building embedded Linux systems. The configuration, setup, and use of over forty different open source and free software packages commonly used in embedded Linux systems are also covered. uClibc, BusyBox, U-Boot, OpenSSH, thttpd, tftp, strace, and gdb are among the packages discussed.

ESL Models and their Application - Brian Bailey 2009-12-15

This book arises from experience the authors have gained from years of work as industry practitioners in the field of Electronic System Level design (ESL). At the heart of all things related to Electronic Design Automation (EDA),

the core issue is one of models: what are the models used for, what should the models contain, and how should they be written and distributed. Issues such as interoperability and tool transportability become central factors that may decide which ones are successful and those that cannot get sufficient traction in the industry to survive. Through a set of real examples taken from recent industry experience, this book will distill the state of the art in terms of System-Level Design models and provide practical guidance to readers that can be put into use. This book is an invaluable tool that will aid readers in their own designs, reduce risk in development projects, expand the scope of design projects, and improve developmental processes and project planning.

Distributed Real-Time Architecture for Mixed-Criticality Systems - Hamidreza Ahmadian 2018-09-05

This book describes a cross-domain architecture and design tools for networked complex systems where application subsystems of different criticality coexist and interact on networked multi-core chips. The architecture leverages multi-core platforms for a hierarchical system perspective of mixed-criticality applications. This system perspective is realized by virtualization to establish security, safety and real-time performance. The impact further includes a reduction of time-to-market, decreased development, deployment and maintenance cost, and the exploitation of the economies of scale through cross-domain components and tools. Describes an end-to-end architecture for hypervisor-level, chip-level, and cluster level. Offers a solution for different types of resources including processors, on-chip communication, off-chip communication, and I/O. Provides a cross-domain approach with examples for wind-power, health-care, and avionics. Introduces hierarchical adaptation strategies for mixed-criticality systems Provides modular verification and certification methods for the seamless

integration of mixed-criticality systems. Covers platform technologies, along with a methodology for the development process. Presents an experimental evaluation of technological results in cooperation with industrial partners. The information in this book will be extremely useful to industry leaders who design and manufacture products with distributed embedded systems in mixed-criticality use-cases. It will also benefit suppliers of embedded components or development tools used in this area. As an educational tool, this material can be used to teach students and working professionals in areas including embedded systems, computer networks, system architecture, dependability, real-time systems, and avionics, wind-power and health-care systems.

Content Computing - Chi-Hung Chi 2005-01-25
This book constitutes the refereed proceedings of the Advanced Workshop on Content Computing, AWCC 2004, held in Zhen Jiang, Jiang Su, China in November 2004.The 26 revised full papers and 36 revised short papers presented were carefully reviewed and selected from 194 submissions. The papers are organized in topical sections on mobile code and agent technology, content sharing and consistency management, networking infrastructure and performance, content aware security, multimedia content, content mining and knowledge extraction, Web services and content applications, content retrieval and management, and ontologies and knowledge conceptualization.

Quality and Reliability of Large-Eddy Simulations - Johan Meyers 2008-06-26
Computational resources have developed to the level that, for the first time, it is becoming possible to apply large-eddy simulation (LES) to turbulent flow problems of realistic complexity. Many examples can be found in technology and in a variety of natural flows. This puts issues related to assessing, assuring, and predicting the quality of LES into the spotlight. Several LES studies have been published in the past,

demonstrating a high level of accuracy with which turbulent flow predictions can be attained, without having to resort to the excessive requirements on computational resources imposed by direct numerical simulations. However, the setup and use of turbulent flow simulations requires a profound knowledge of fluid mechanics, numerical techniques, and the application under consideration. The susceptibility of large-eddy simulations to errors in modelling, in numerics, and in the treatment of boundary conditions, can be quite large due to nonlinear accumulation of different contributions over time, leading to an intricate and unpredictable situation. A full understanding of the interacting error dynamics in large-eddy simulations is still lacking. To ensure the reliability of large-eddy simulations for a wide range of industrial users, the development of clear standards for the evaluation, prediction, and control of simulation errors in LES is summoned. The workshop on Quality and Reliability of Large-Eddy Simulations, held October 22-24, 2007 in Leuven, Belgium (QLES2007), provided one of the first platforms specifically addressing these aspects of LES.

Human Computer Interaction and Emerging Technologies - Fernando Loizides 2020-05-07
INTERACT Conferences are an important platform for researchers and practitioners in the field of human-computer interaction (HCI). This volume contains the Adjunct Proceedings to the 17th INTERACT Conference (2019). They consist of a series of selected papers from workshops, the Student Design Consortium and the Doctoral Consortium.

Relaxation of Elementary Excitations - R. Kubo 2012-12-06
This is the Proceedings of the Taniguchi International Symposium on "Relaxation of Elementary Excitations" which was held October 12-16,1979, at Susono-shi (at the foot of f1t. Fuji) in Japan. The pleasant atmosphere of the

Symposium is evidenced in the picture of the participants shown on the next page. The purpose of the symposium was to provide an opportunity for a limited number of active researchers to meet and to discuss relaxation processes and related phenomena not only of excitons and phonons in solids but also electronic and vibrational excitations in molecules and biological systems. First, the lattice relaxation, i.e., multi-phonon process, associated with electronic excitation, which plays important roles in self-trapping of an exciton and a particle (electron and hole) and also in degradation of semi conductor lasers, is discussed. Second, this lattice relaxation is studied as the intermediate state interaction in the second-order optical responses, i.e., in connection with the competitive behavior of Raman scattering and luminescence. Third, relaxation mechanisms and relaxation constants are by spectroscopic methods as well as by genuine nonlinear optical determined phenomena. Conversely the relaxation is decisive in coherent nonlinear optical phenomena such as laser, superradiance, and optical bistability. Fourth, the role played by relaxation processes is discussed for optical phenomena in macromolecules and biological system such as photosynthesis.

Image and Text Compression - James A. Storer 2012-12-06

James A. Storer Computer Science Dept. Brandeis University Waltham, MA 02254 Data compression is the process of encoding a body of data to reduce stor age requirements. With Lossless compression, data can be decompressed to be identical to the original, whereas with lossy compression, decompressed data may be an acceptable approximation (according to some fidelity criterion) to the original. For example, with digitized video, it may only be necessary that the decompressed video look as good as the original to the human eye. The two primary functions of data

compression are: Storage: The capacity of a storage device can be effectively increased with data compression software or hardware that compresses a body of data on its way to the storage device and decompress it when it is retrieved. Communications: The bandwidth of a digital communication link can be effectively increased by compressing data at the sending end and decom pressing data at the receiving end. Here it can be crucial that compression and decompression can be performed in real time.
Information Theory and Coding - Norman Abramson 1963

Text Compression - Timothy C. Bell 1990
M->CREATED
Information Hiding - Stefan Katzenbeisser 2016-01-01
A successor to the popular Artech House title Information Hiding Techniques for Steganography and Digital Watermarking, this comprehensive and up-to-date new resource gives the reader a thorough review of steganography, digital watermarking and media fingerprinting with possible applications to modern communication, and a survey of methods used to hide information in modern media. This book explores Steganography, as a means by which two or more parties may communicate using invisible or subliminal communication. "Steganalysis" is described as methods which can be used to break steganographic communication. This comprehensive resource also includes an introduction to watermarking and its methods, a means of hiding copyright data in images and discusses components of commercial multimedia applications that are subject to illegal use. This book demonstrates a working knowledge of watermarking's pros and cons, and the legal implications of watermarking and copyright issues on the Internet.
Health Informatics: Practical Guide for Healthcare and Information Technology

Professionals (Sixth Edition) - Robert E. Hoyt 2014

Health Informatics (HI) focuses on the application of Information Technology (IT) to the field of medicine to improve individual and population healthcare delivery, education and research. This extensively updated fifth edition reflects the current knowledge in Health Informatics and provides learning objectives, key points, case studies and references.

Computational Toxicology - Sean Ekins 2007-06-30

A comprehensive analysis of state-of-the-art molecular modeling approaches and strategies applied to risk assessment for pharmaceutical and environmental chemicals This unique volume describes how the interaction of molecules with toxicologically relevant targets can be predicted using computer-based tools utilizing X-ray crystal structures or homology, receptor, pharmacophore, and quantitative structure activity relationship (QSAR) models of human proteins. It covers the in vitro models used, newer technologies, and regulatory aspects. The book offers a complete systems perspective to risk assessment prediction, discussing experimental and computational approaches in detail, with: * An introduction to toxicology methods and an explanation of computational methods * In-depth reviews of QSAR methods applied to enzymes, transporters, nuclear receptors, and ion channels * Sections on applying computers to toxicology assessment in the pharmaceutical industry and in the environmental arena * Chapters written by leading international experts * Figures that illustrate computational models and references for further information This is a key resource for toxicologists and scientists in the pharmaceutical industry and environmental sciences as well as researchers involved in ADMET, drug discovery, and technology and software development.

Waveform Design and Diversity for

Advanced Radar Systems - Fulvio Gini 2012-05-18
This postgraduate text focuses on novel transmission strategies as a way to improve performance in a variety of civil, defence and homeland security applications. It will also be of interest to R&D engineers in companies specialising in applications of radar signal processing.