Content Distribution Network&sortm

Kai Hwang,Jack Dongarra,Geoffrey C. Fox

Content Delivery Networks Dom Robinson,2017-06-20 The definitive guide to developing robust content delivery networks This book examines the real-world engineering challenges of developing robust content delivery networks (CDNs) and provides the tools required to overcome those challenges and to ensure high-quality content delivery that fully satisfies operators' and consumers' commercial objectives. It is informed by the author's two decades of experience building and delivering large, mission-critical live video, webcasts, and radio streaming, online and over private IP networks. Following an overview of the field, the book cuts to the chase with in-depth discussions—laced with good-natured humor—of a wide range of design considerations for different network topologies. It begins with a description of the author's own requirement filtration processes. From there it moves on to initial sketches, through considerations of stakeholder roles and responsibilities, to the complex challenges of managing change in established teams. Agile versus waterfall considerations within large blue chip companies, security, commercial models, and value chain alignment are explored in detail. Featured throughout the book are numerous what if scenarios that help provide a clear picture of the wide spectrum of practical contexts for which readers may be tasked with building and implementing a CDN. In addition, the book: Discusses delivery of live, catch-up, scheduled on-demand, TVOD and SVOD Offers insights into the decisions that can to be made when architecting a content distribution system over IP-based networks Covers CDN topologies, including Edge-Caching, Streaming-Splitting, Pure-Play, Operator, Satellite, and Hybrid Examines computer hosting and orchestration for dedicated appliances and virtualization Includes real-world cases covering everything from IETF, regulatory considerations, and policy formation, to coding, hardware vendors, and network operators Considers the future of CDN technologies and the market forces driving its evolution Written by a back-room engineer for back-room engineers, Content Delivery Networks gets readers up to speed on the real-world challenges they can face as well as tried-and-true strategies for addressing those challenges in order to ensure the delivery of the high-quality content delivery networks that clients demand and users expect.

Content Distribution Networks Dinesh C. Verma,2003-04-08 Content distribution networks (CDNs) are the most promising new techniques for coping with the huge and swiftly growing volume of Internet traffic. In essence, CDNs are groups of proxy-servers located at strategic points around the Internet and arranged so as to ensure that a download request can always be handled from the nearest server. In this, the first reference in the field, a recognized CDN pioneer describes the various technologies involved and explains how they came together to form a working system. With the help of case studies, he covers all the practical basics and provides invaluable implementation schemes.

Networking Communication and Data Knowledge Engineering Gregorio Martinez Perez,Krishn K. Mishra,Shailesh Tiwari,Munesh C. Trivedi,2017-11-13 Data science, data engineering and knowledge engineering requires networking and communication as a backbone and have wide scope of implementation in engineering sciences. Keeping this ideology in preference, this book includes the insights that reflect the advances in these fields from upcoming researchers and leading academicians across the globe. It contains high-quality peer-reviewed papers of 'International Conference on Recent Advancement in Computer, Communication and Computational Sciences (ICRACCCS 2016)', held at Janardan Rai Nagar Rajasthan Vidyapeeth University, Udaipur, India, during 25–26 November 2016. The volume covers variety of topics such as Advanced Communication Networks, Artificial Intelligence and Evolutionary Algorithms, Advanced Software Engineering and Cloud Computing, Image Processing and Computer Vision, and Security. The book will help the perspective readers from computer industry and academia to derive the advances of next generation communication and computational technology and shape them into real life applications.

A Practical Guide to Content Delivery Networks, Second Edition Gilbert Held,2010-10-12 Following in the tradition of its popular predecessor, A Practical Guide to Content Delivery Networks, Second Edition offers an accessible and organized approach to implementing networks capable of handling the increasing data requirements of today's always on mobile society. Describing how content delivery networks (CDN) function, it provides an understanding of Web architecture, as well as an overview of the TCP/IP protocol suite. The book reports on the development of the technologies that have evolved over the past decade as distribution mechanisms for various types of Web content. Using a structural and visual approach, it provides step-by-step guidance through the process of setting up a scalable CDN. Supplies a clear understanding of the framework and individual layers of design, including caching and load balancing Describes the terminology, tactics, and potential problems when implementing a CDN Examines cost-effective ways to load balance web service layers Explains how application servers connect to databases and how systems will scale as volume increases Illustrates the impact of video on data storage and delivery, as well as the need for data compression Covers Flash and the emerging HTML5 standard for video Highlighting the advantages and disadvantages associated with these types of networks, the book explains how to use the networks within the Internet operated by various ISPs as mechanisms for effectively delivering Web server based information. It emphasizes a best-of-breed approach to building your network to allow for an effective CDN to be built on practically any budget. To help you get started, this vendor-neutral reference explains how to code Web pages to optimize the delivery of various types of media. It also includes examples of successful approaches, from outsourcing to do it yourself.

Advanced Content Delivery, Streaming, and Cloud Services Mukaddim Pathan,Ramesh K. Sitaraman,Dom Robinson,2014-09-19 While other books on the market provide limited coverage of advanced CDNs and streaming technologies, concentrating solely on the fundamentals, this book provides an up-to-date comprehensive coverage of the state-of-the-art advancements in CDNs, with a special focus on Cloud-based CDNs. The book includes CDN and media streaming basics, performance models, practical applications, and business analysis. It features industry case studies, CDN applications, and open research issues to aid practitioners and researchers, and a market analysis to provide a reference point for commercial entities. The book covers Adaptive Bitrate Streaming (ABR), Content Delivery Cloud (CDC), Web Acceleration, Front End Optimization (FEO), Transparent Caching, Next Generation CDNs, CDN Business Intelligence and more. Provides an in-depth look at Cloud-based CDNs Includes CDN and streaming media basics and tutorials Aimed to instruct systems architects, practitioners, product developers, and researchers Material is divided into introductory subjects, advanced content, and specialist areas

Evolving Networking Technologies Kanta Prasad Sharma,Shaurya Gupta,Ashish Sharma,Dac-Nhuong Le,2023-04-26 EVOLVING NETWORKING TECHNOLOGIES This book discusses in a practical manner some of the critical security challenges facing the ever-evolving networking technologies of today. In an age of explosive worldwide growth of

electronic data storage and communications, effective protection of information has become a critical requirement, especially when used in coordination with other tools for information security and cryptography in all of its applications, including data confidentiality, data integrity, and user authentication. While the importance of cryptographic technique, i.e., encryption, in protecting sensitive and critical information and resources cannot be overemphasized, an examination of the technical evolution within several industries reveals an approaching precipice of scientific change. The glacially paced but inevitable convergence of quantum mechanics, nanotechnology, computer science, and applied mathematics will revolutionize modern technology. The implications of such changes will be far-reaching, with one of its greatest impacts affecting information security and, more specifically, modern cryptography. The book takes the reader through these issues. As the security systems design becomes more and more complex to meet these challenges, a mistake that is committed most often by security specialists is not making a comprehensive analysis of the system to be secured before choosing which security mechanism to deploy. Often, the security mechanism chosen turns out to be either incompatible with, or inadequate for, handling the complexities of the system. In addition, the book also discusses three main points: Configuration management is a critical issue, and as networks are increasing in size, their configuration needs to be managed. Devices may conflict with each other in terms of configuration. Therefore, it becomes challenging for firewalls to be up-to-date according to network policies. Scalability of the network is another big challenge, it would be easier to address if the network stays the same, but the network is ever expanding with a constant increase in the number of devices devoted to the network. Vendor lock-in: Business decisions that are taken today are revolving around the assumptions and capabilities of the current vendor and environment scenario. Buying the best solutions from today's vendors involves how to interoperate, integrate, and support multiple solutions. It may involve tearing out all of the longstanding kits without tearing down the entire network at the same time. Audience This book specifically appeals to industry practitioners, IT researchers, and students regarding network technological management.

  Software Engineering Perspectives in Systems Radek Silhavy,2022-07-16 The study of software engineering and its applications to system engineering is critical in computer science research. Modern research methodologies, as well as the use of machine and statistical learning in software engineering research, are covered in this book. This book contains the refereed proceedings of the Software Engineering Perspectives in Systems part of the 11th Computer Science On-line Conference 2022 (CSOC 2022), which was held in April 2022 online.

  Social Media Storms Pernille Rydén,Muhammad Ismail Hossain,Efthymia Kottika,Vatroslav Škare,2021-08-25 This fascinating new book explores the benefits and dynamics of social media storms and identifies the possible opportunities that they present for further engagement with customers. It provides actionable managerial advice on planning for, measuring, and innovatively navigating social media storms. Based on a sound theoretical background and illustrated by vivid real-life examples and case studies throughout every chapter, this book combines thorough explanations of the elements of business decision-making, market interaction, consumer psychology, branding, and business communication. In comparison to the existing literature, the book departs from the classical, but insufficient crisis communication management approaches to suggest novel frameworks and tools for empowering businesses, consumers, and broader societies in the digital age. Social Media Storms: Empowering Leadership Beyond Crisis Management provides advanced undergraduate and postgraduate digital marketing, marketing communications, strategy, and crisis management students with a comprehensive understanding of the social media storm phenomenon and helps marketing and communications professionals to leverage the opportunities that social media storms are bringing.

  Information-Centric Networks Gabriel M. de Brito,Pedro B. Velloso,Igor M. Moraes,2013-05-06 Since its inception, the Internet has evolved from a textualinformation system towards a multimedia information system, inwhich data, services and applications are consumed as content.Today, however, the main problem faced is that applications are nowcontent-oriented but the protocol stack remains the same, based onthe content location. Thus, it is clear that the Internet'scurrent architecture must change. This new architecture should takeinto account aspects to improve content location and deliveryefficiency and also content availability. Fulfilling theserequirements is the main goal of information-centric networks(ICNs). ICN is a new communication paradigm to increase the efficiency ofcontent delivery and also content availability. In this newconcept, the network infrastructure actively contributes to contentcaching and distribution. This book presents the basic concepts ofICNs, describes the main architecture proposals for these networks,and discusses the main challenges to their development. InformationCentric-Networks looks at the current challenges for this concept,including: naming, routing and caching on the network-coreelements, several aspects of content security, user privacy, andpractical issues in implementing ICNs. Contents 1. Content Distribution on the Internet. 2. Information-Centric Networks. 3. Main ICN Architectures. 4. Challenges. 5. Practical Issues. About the Authors Gabriel M. Brito is an Engineer at Petrobras in Brazil andstudying for a Master's degree at the Universidade FederalFluminense in Brazil. Pedro Braconnot Velloso is an Associate Professor in the Departmentof Computer Science at the Universidade Federal Fluminense (UFF),Brazil. He worked for Bell Labs France as a research engineer from2009 to 2011. Igor M. Moraes is an Associate Professor at the UniversidadeFederal Fluminense in Brazil.

  Handbook of Blockchain, Digital Finance, and Inclusion, Volume 2 David Lee Kuo Chuen,Robert H. Deng,2017-08-16 Handbook of Blockchain, Digital Finance, and Inclusion, Volume 2: ChinaTech, Mobile Security, and Distributed Ledger emphasizes technological developments that introduce the future of finance. Descriptions of recent innovations lay the foundations for explorations of feasible solutions for banks and startups to grow. The combination of studies on blockchain technologies and applications, regional financial inclusion movements, advances in Chinese finance, and security issues delivers a grand perspective on both changing industries and lifestyles. Written for students and practitioners, it helps lead the way to future possibilities. Explains the practical consequences of both technologies and economics to readers who want to learn about subjects related to their specialties Encompasses alternative finance, financial inclusion, impact investing, decentralized consensus ledger and applied cryptography Provides the only advanced methodical summary of these subjects available today

  Distributed and Cloud Computing Kai Hwang,Jack Dongarra,Geoffrey C. Fox,2013-12-18 Distributed and Cloud Computing: From Parallel Processing to the Internet of Things offers complete coverage of modern distributed computing technology including clusters, the grid, service-oriented architecture, massively parallel processors, peer-to-peer networking, and cloud computing. It is the first modern, up-to-date distributed systems textbook; it explains how to create high-performance, scalable,

reliable systems, exposing the design principles, architecture, and innovative applications of parallel, distributed, and cloud computing systems. Topics covered by this book include: facilitating management, debugging, migration, and disaster recovery through virtualization; clustered systems for research or ecommerce applications; designing systems as web services; and social networking systems using peer-to-peer computing. The principles of cloud computing are discussed using examples from open-source and commercial applications, along with case studies from the leading distributed computing vendors such as Amazon, Microsoft, and Google. Each chapter includes exercises and further reading, with lecture slides and more available online. This book will be ideal for students taking a distributed systems or distributed computing class, as well as for professional system designers and engineers looking for a reference to the latest distributed technologies including cloud, P2P and grid computing. Complete coverage of modern distributed computing technology including clusters, the grid, service-oriented architecture, massively parallel processors, peer-to-peer networking, and cloud computing Includes case studies from the leading distributed computing vendors: Amazon, Microsoft, Google, and more Explains how to use virtualization to facilitate management, debugging, migration, and disaster recovery Designed for undergraduate or graduate students taking a distributed systems course—each chapter includes exercises and further reading, with lecture slides and more available online

Advanced Data Structures Suman Saha,Shailendra Shukla,2019-06-28 Advanced data structures is a core course in Computer Science which most graduate program in Computer Science, Computer Science and Engineering, and other allied engineering disciplines, offer during the first year or first semester of the curriculum. The objective of this course is to enable students to have the much-needed foundation for advanced technical skill, leading to better problem-solving in their respective disciplines. Although the course is running in almost all the technical universities for decades, major changes in the syllabus have been observed due to the recent paradigm shift of computation which is more focused on huge data and internet-based technologies. Majority of the institute has been redefined their course content of advanced data structure to fit the current need and course material heavily relies on research papers because of nonavailability of the redefined text book advanced data structure. To the best of our knowledge well-known textbook on advanced data structure provides only partial coverage of the syllabus. The book offers comprehensive coverage of the most essential topics, including: Part I details advancements on basic data structures, viz., cuckoo hashing, skip list, tango tree and Fibonacci heaps and index files. Part II details data structures of different evolving data domains like special data structures, temporal data structures, external memory data structures, distributed and streaming data structures. Part III elucidates the applications of these data structures on different areas of computer science viz, network, www, DBMS, cryptography, graphics to name a few. The concepts and techniques behind each data structure and their applications have been explained. Every chapter includes a variety of Illustrative Problems pertaining to the data structure(s) detailed, a summary of the technical content of the chapter and a list of Review Questions, to reinforce the comprehension of the concepts. The book could be used both as an introductory or an advanced-level textbook for the advanced undergraduate, graduate and research programmes which offer advanced data structures as a core or an elective course. While the book is primarily meant to serve as a course material for use in the classroom, it could be used as a starting point for the beginner researcher of a specific domain.

Technological Advancements and Applications in Mobile Ad-Hoc Networks: Research Trends Lakhtaria, Kamaljit I.,2012-03-31 Mobile ad-hoc networks must be rapidly interoperable, customizable, and quick to adapt to the latest technological advances. Technological Advancements and Applications in Mobile Ad-Hoc Networks: Research Trends offers a current look into the latest research in the field, frameworks for development, and future directions. As mobile networks become more complex, it is vital for researchers, practitioners, and academics alike to stay abreast within the ever-burgeoning field. With a wide range of applications, theories, and use across industrial, commercial, and domestic settings, mobile ad-hoc networks are a topic of vital discussion, and this volume offers the cutting edge developments with contributions from around the world.

Blockchain-enabled Fog and Edge Computing: Concepts, Architectures and Applications Muhammad Maaz Rehan,Mubashir Husain Rehmani,2020-07-27 This comprehensive book unveils the working relationship of blockchain and the fog/edge computing. The contents of the book have been designed in such a way that the reader will not only understand blockchain and fog/edge computing but will also understand their co-existence and their collaborative power to solve a range of versatile problems. The first part of the book covers fundamental concepts and the applications of blockchain-enabled fog and edge computing. These include: Internet of Things, Tactile Internet, Smart City; and E-challan in the Internet of Vehicles. The second part of the book covers security and privacy related issues of blockchain-enabled fog and edge computing. These include, hardware primitive based Physical Unclonable Functions; Secure Management Systems; security of Edge and Cloud in the presence of blockchain; secure storage in fog using blockchain; and using differential privacy for edge-based Smart Grid over blockchain. This book is written for students, computer scientists, researchers and developers, who wish to work in the domain of blockchain and fog/edge computing. One of the unique features of this book is highlighting the issues, challenges, and future research directions associated with Blockchain-enabled fog and edge computing paradigm. We hope the readers will consider this book a valuable addition in the domain of Blockchain and fog/edge computing.

Content Distribution for Mobile Internet: A Cloud-based Approach Zhenhua Li,Yafei Dai,Guihai Chen,Yunhao Liu,2023-02-14 Content distribution, i.e., distributing digital content from one node to another node or multiple nodes, is the most fundamental function of the Internet. Since Amazon's launch of EC2 in 2006 and Apple's release of the iPhone in 2007, Internet content distribution has shown a strong trend toward polarization. On the one hand, considerable investments have been made in creating heavyweight, integrated data centers ("heavy-cloud") all over the world, in order to achieve economies of scale and high flexibility/efficiency of content distribution. On the other hand, end-user devices ("light-end") have become increasingly lightweight, mobile and heterogeneous, creating new demands concerning traffic usage, energy consumption, bandwidth, latency, reliability, and/or the security of content distribution. Based on comprehensive real-world measurements at scale, we observe that existing content distribution techniques often perform poorly under the abovementioned new circumstances. Motivated by the trend of "heavy-cloud vs. light-end," this book is dedicated to uncovering the root causes of today's mobile networking problems and designing innovative cloud-based solutions to practically address such problems. Our work has produced not only academic papers published in prestigious conference proceedings like SIGCOMM, NSDI, MobiCom and MobiSys, but also concrete effects on industrial systems such as Xiaomi Mobile, MIUI OS, Tencent App Store, Baidu PhoneGuard, and WiFi.com. A series of practical

takeaways and easy-to-follow testimonials are provided to researchers and practitioners working in mobile networking and cloud computing. In addition, we have released as much code and data used in our research as possible to benefit the community.

Enabling Technologies for Effective Planning and Management in Sustainable Smart Cities Mohd Abdul Ahad,Gabriella Casalino,Bharat Bhushan,2023-03-01 With the rapid penetration of technology in varied application domains, the existing cities are getting connected more seamlessly. Cities becomes smart by inducing ICT in the classical city infrastructure for its management. According to McKenzie Report, about 68% of the world population will migrate towards urban settlements in near future. This migration is largely because of the improved Quality of Life (QoL) and livelihood in urban settlements. In the light of urbanization, climate change, democratic flaws, and rising urban welfare expenditures, smart cities have emerged as an important approach for society's future development. Smart cities have achieved enhanced QoL by giving smart information to people regarding healthcare, transportation, smart parking, smart traffic structure, smart home, smart agronomy, community security etc. Typically, in smart cities data is sensed by the sensor devices and provided to end users for further use. The sensitive data is transferred with the help of internet creating higher chances for the adversaries to breach the data. Considering the privacy and security as the area of prime focus, this book covers the most prominent security vulnerabilities associated with varied application areas like healthcare, manufacturing, transportation, education and agriculture etc. Furthermore, the massive amount of data being generated through ubiquitous sensors placed across the smart cities needs to be handled in an effective, efficient, secured and privacy preserved manner. Since a typical smart city ecosystem is data driven, it is imperative to manage this data in an optimal manner. Enabling technologies like Internet of Things (IoT), Natural Language Processing (NLP), Blockchain Technology, Deep Learning, Machine Learning, Computer vision, Big Data Analytics, Next Generation Networks and Software Defined Networks (SDN) provide exemplary benefits if they are integrated in the classical city ecosystem in an effective manner. The application of Artificial Intelligence (AI) is expanding across many domains in the smart city, such as infrastructure, transportation, environmental protection, power and energy, privacy and security, governance, data management, healthcare, and more. AI has the potential to improve human health, prosperity, and happiness by reducing our reliance on manual labor and accelerating our progress in the sciences and technologies. NLP is an extensive domain of AI and is used in collaboration with machine learning and deep learning algorithms for clinical informatics and data processing. In modern smart cities, blockchain provides a complete framework that controls the city operations and ensures that they are managed as effectively as possible. Besides having an impact on our daily lives, it also facilitates many areas of city management.

Data Structures ,

Evolution of Broadcast Content Distribution Roland Beutler,2016-09-16 This book discusses opportunities for broadcasters that arise with the advent of broadband networks, both fixed and mobile. It discusses how the traditional way of distributing audio-visual content over broadcasting networks has been complemented by the usage of broadband networks. The author shows how this also gives the possibility to offer new types of interactive or so-called nonlinear services. The book illustrates how change in distribution technology is accelerating the need for broadcasters around the world to adapt their content distribution strategy and how it will impact the portfolios of content they offer.

Web Content Caching and Distribution Fred Douglis,Brian D. Davison,2007-05-08 Web caching and content delivery technologies provide the infrastructure on which systems are built for the scalable distribution of information. This proceedings of the eighth annual workshop, captures a cross-section of the latest issues and techniques of interest to network architects and researchers in large-scale content delivery. Topics covered include the distribution of streaming multimedia, edge caching and computation, multicast, delivery of dynamic content, enterprise content delivery, streaming proxies and servers, content transcoding, replication and caching strategies, peer-to-peer content delivery, and Web prefetching. Web Content Caching and Distribution encompasses all areas relating to the intersection of storage and networking for Internet content services. The book is divided into eight parts: mobility, applications, architectures, multimedia, customization, peer-to-peer, performance and measurement, and delta encoding.

Web Caching and Content Delivery A. Bestavros,M. Rabinovich,2001-12-14 The International Web Content Caching and Distribution Workshop (WCW) is a premiere technical meeting for researchers and practitioners interested in all aspects of content caching, distribution and delivery on the Internet. The 2001 WCW meeting was held on the Boston University Campus. Building on the successes of the five previous WCW meetings, WCW01 featured a strong technical program and record participation from leading researchers and practitioners in the field. This book consists of all the technical papers presented at WCW'01. It includes 20 full papers and four R&D synopses that were presented at the workshop. The collection reflects the latest research in this important area, including such topics as Content Delivery Networks (CDNs), tools and methodology of performance measurements, Web characterization as relates to caching and content distribution, scalable web server architectures, cache prefetching, emerging new edge services, and delivery of streaming content.

Reviewing **Content Distribution Network&sortm**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Content Distribution Network&sortm**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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