

Cloud Computing Concepts Technology Architecture T

Thank you definitely much for downloading **Cloud Computing Concepts Technology Architecture T** .Maybe you have knowledge that, people have see numerous time for their favorite books next this Cloud Computing Concepts Technology Architecture T , but end taking place in harmful downloads.

Rather than enjoying a fine ebook similar to a mug of coffee in the afternoon, instead they juggled following some harmful virus inside their computer. **Cloud Computing Concepts Technology Architecture T** is genial in our digital library an online access to it is set as public thus you can download it instantly. Our digital library saves in complex countries, allowing you to acquire the most less latency epoch to download any of our books similar to this one. Merely said, the Cloud Computing Concepts Technology Architecture T is universally compatible considering any devices to read.

[How to Become an It Architect](#) - Cristian Bojinca 2016-11

Defining the various types of IT architecture in the industry, this one-of-a-kind resource highlights the rewards of becoming an architect and explores the details of the deliverables, project structure, and how to approach their creation. --

[Futuristic Trends in Networks and Computing Technologies](#) - Pradeep Kumar Singh 2022-12-17

This book constitutes the refereed proceedings of the Fourth International Conference on Futuristic Trends in Network and Communication Technologies, FTNCT 2021. The prime aim of the conference is to invite researchers from different domains of network and communication technologies to a single platform to showcase their research ideas. The selected papers are organized in topical sections on network and computing technologies; wireless networks and Internet of Things (IoT); futuristic computing technologies; communication technologies, security, and privacy. The volume will serve as a reference resource for researchers and practitioners in academia and industry.

[Encyclopedia of Information Science and Technology, Fifth Edition](#) - Khosrow-Pour D.B.A., Mehdi 2020-07-24

The rise of intelligence and computation within technology has created an eruption of potential applications in numerous professional industries. Techniques such as data analysis, cloud computing, machine learning, and others have altered the traditional processes of various disciplines including healthcare, economics, transportation, and politics. Information technology in today's world is beginning to uncover opportunities for experts in these fields that they are not yet aware of. The exposure of specific instances in which these devices are being implemented will assist other specialists in how to successfully utilize these transformative tools with the appropriate amount of discretion, safety, and awareness. Considering the level of diverse uses and practices throughout the globe, the fifth edition of the Encyclopedia of Information Science and Technology series continues the enduring legacy set forth by its predecessors as a premier reference that contributes the most cutting-edge concepts and methodologies to the research community. The Encyclopedia of Information Science and Technology, Fifth Edition is a three-volume set that includes 136 original and previously unpublished research chapters that present multidisciplinary research and expert insights into new methods and processes for understanding modern technological tools and their applications as well as emerging theories and ethical controversies surrounding the field of information science. Highlighting a wide range of topics such as natural language processing, decision support systems, and electronic government, this book offers strategies for implementing smart devices and analytics into various professional disciplines. The techniques discussed in this publication are ideal for IT professionals, developers, computer scientists, practitioners, managers, policymakers, engineers, data analysts, and programmers seeking to understand the latest developments within this field and who are looking to apply new tools and policies in their practice. Additionally, academicians, researchers, and students in fields that include but are not limited to software engineering, cybersecurity, information technology, media and communications, urban planning, computer science, healthcare, economics, environmental science, data management, and political science will benefit from the extensive knowledge compiled within this publication.

[Cloud Computing](#) - Thomas Erl 2017

[Microservices](#) - Eberhard Wolff 2018-07-25

Eine Microservices-Architektur unterteilt Software-Systeme in eine Vielzahl kleiner Dienste, die unabhängig voneinander in Produktion gebracht werden können. Jedes Team arbeitet dabei an seinen Microservices und ist weitgehend entkoppelt von anderen Teams, das erlaubt eine einfache Skalierung agiler Prozesse. Die Aufteilung in Microservices schützt gegen den Verfall der Architektur, sodass die Systeme auch langfristig wartbar bleiben. Zudem können Legacy-Systeme durch Microservices ergänzt werden, ohne dabei den alten Code zu ändern. Und auch Continuous Delivery ist einfacher umsetzbar. Eberhard Wolff bietet Ihnen in diesem Buch eine umfangreiche Einführung in das Thema Microservices. Dabei geht es u.a. um: Vor- und Nachteile des Microservice-Ansatzes Microservices vs. SOA Die übergreifende Architektur von Microservice-Systemen Die Architektur einzelner Services Auswirkungen auf Projektorganisation, Betrieb, Testen und Deployment Nanoservices Das Buch erläutert technologieneutrale Konzepte und Architekturen, die mit verschiedenen Technologien umgesetzt werden können. Als Beispiel für einen konkreten Technologie-Stack wird Java mit Spring Boot, dem Netflix-Stack und Spring Cloud gezeigt. Anhand von vielen Beispielen und konkreten Szenarien lernen Sie, wie Microservices möglichst gewinnbringend genutzt werden können. Außerdem erhalten Sie Anregungen, das Gelernte durch eigene Experimente weiter zu vertiefen. In der zweiten Auflage wurde der Abschnitt zu Domain-Driven Design komplett überarbeitet. Erweitert wurde die beispielhafte Beschreibung von Microservices-Technologien: Neben dem Netflix-Stack werden nun auch Alternativen erwähnt. Außerdem wurden die Essays zur Evolution von Microservices und zu Microservices in der Amazon Cloud aktualisiert.

[Grid and Cloud Computing: Concepts, Methodologies, Tools and Applications](#) - Management Association, Information Resources 2012-04-30

"This reference presents a vital compendium of research detailing the latest case studies, architectures, frameworks, methodologies, and research on Grid and Cloud Computing"--

[IoT and AI Technologies for Sustainable Living](#) - Abid Hussain 2022-10-18

This book brings together all the latest methodologies, tools and techniques related to the Internet of Things and Artificial Intelligence in a single volume to build insight into their use in sustainable living. The areas of application include agriculture, smart farming, healthcare, bioinformatics, self-diagnosis systems, body sensor networks, multimedia mining, and multimedia in forensics and security. This book provides a comprehensive discussion of modeling and implementation in water resource optimization, recognizing pest patterns, traffic scheduling, web mining, cyber security and cyber forensics. It will help develop an understanding of the need for AI and IoT to have a sustainable era of human living. The tools covered include genetic algorithms, cloud computing, water resource management, web mining, machine learning, block chaining, learning algorithms, sentimental analysis and Natural Language Processing (NLP). IoT and AI Technologies for Sustainable Living: A Practical Handbook will be a valuable source of knowledge for researchers, engineers, practitioners, and graduate and doctoral students working in the field of cloud computing. It will also be useful for faculty members of graduate schools and universities.

[Encyclopedia of Organizational Knowledge, Administration, and Technology](#) - Khosrow-Pour D.B.A., Mehdi 2020-09-29

For any organization to be successful, it must operate in such a manner that knowledge and information,

human resources, and technology are continually taken into consideration and managed effectively. Business concepts are always present regardless of the field or industry – in education, government, healthcare, not-for-profit, engineering, hospitality/tourism, among others. Maintaining organizational awareness and a strategic frame of mind is critical to meeting goals, gaining competitive advantage, and ultimately ensuring sustainability. The Encyclopedia of Organizational Knowledge, Administration, and Technology is an inaugural five-volume publication that offers 193 completely new and previously unpublished articles authored by leading experts on the latest concepts, issues, challenges, innovations, and opportunities covering all aspects of modern organizations. Moreover, it is comprised of content that highlights major breakthroughs, discoveries, and authoritative research results as they pertain to all aspects of organizational growth and development including methodologies that can help companies thrive and analytical tools that assess an organization's internal health and performance. Insights are offered in key topics such as organizational structure, strategic leadership, information technology management, and business analytics, among others. The knowledge compiled in this publication is designed for entrepreneurs, managers, executives, investors, economic analysts, computer engineers, software programmers, human resource departments, and other industry professionals seeking to understand the latest tools to emerge from this field and who are looking to incorporate them in their practice. Additionally, academicians, researchers, and students in fields that include but are not limited to business, management science, organizational development, entrepreneurship, sociology, corporate psychology, computer science, and information technology will benefit from the research compiled within this publication.

Elements of Cloud Computing Security - Mohammed M. Alani 2016-07-14

This book offers a thorough yet easy-to-read reference guide to various aspects of cloud computing security. It begins with an introduction to the general concepts of cloud computing, followed by a discussion of security aspects that examines how cloud security differs from conventional information security and reviews cloud-specific classes of threats and attacks. A range of varying threats in cloud computing are covered, from threats of data loss and data breaches, to threats to availability and threats posed by malicious insiders. Further, the book discusses attacks launched on different levels, including attacks on the hypervisor, and on the confidentiality of data. Newer types, such as side-channel attacks and resource-freeing attacks, are also described. The work closes by providing a set of general security recommendations for the cloud.

Emerging Technologies in Computing - Mahdi H. Miraz 2018-07-20

This book constitutes the refereed conference proceedings of the First International Conference on Emerging Technologies in Computing, iCEtiC 2018, held in London, UK, in August 2018. The 26 revised full papers were reviewed and selected from more than 59 submissions and are organized in topical sections covering Cloud, IoT and distributed computing, software engineering, communications engineering and vehicular technology, AI, expert systems and big data analytics, Web information systems and applications, security, database system, economics and business engineering, mLearning and eLearning.

Smart Grid and Enabling Technologies - Shady S. Refaat 2021-07-27

Discover foundational topics in smart grid technology as well as an exploration of the current and future state of the industry As the relationship between fossil fuel use and climate change becomes ever clearer, the search is on for reliable, renewable and less harmful sources of energy. Sometimes called the electronet or the energy Internet, smart grids promise to integrate renewable energy, information, and communication technologies with the existing electrical grid and deliver electricity more efficiently and reliably. Smart Grid and Enabling Technologies delivers a complete vision of smart grid technology and applications, including foundational and fundamental technologies, the technology that enables smart grids, the current state of the industry, and future trends in smart energy. The book offers readers thorough discussions of modern smart grid technology, including advanced metering infrastructure, net zero energy buildings, and communication, data management, and networks in smart grids. The accomplished authors also discuss critical challenges and barriers facing the smart grid industry as well as trends likely to be of import in its future development. Readers will also benefit from the inclusion of: A thorough introduction to smart grid architecture, including traditional grids, the fundamentals of electric power, definitions and

classifications of smart grids, and the components of smart grid technology An exploration of the opportunities and challenges posed by renewable energy integration Practical discussions of power electronics in the smart grid, including power electronics converters for distributed generation, flexible alternating current transmission systems, and high voltage direct current transmission systems An analysis of distributed generation Perfect for scientists, researchers, engineers, graduate students, and senior undergraduate students studying and working with electrical power systems and communication systems. Smart Grid and Enabling Technologies will also earn a place in the libraries of economists, government planners and regulators, policy makers, and energy stakeholders working in the smart grid field. Web 2.0 and Cloud Technologies for Implementing Connected Government - Mahmood, Zaigham 2020-08-21

The emergence of cloud computing, internet of things, mobile technologies, and social networking have created better-connected members of the public who are digitally linked with each other in real time. Establishing this two-way interaction between citizens and governments has thus become attractive and an expected feature of governments worldwide. Previously, federal and local governments relied on first-generation technologies to provide basic levels of automation and digitization. Now, because of their desire to become more open, transparent, accountable, and connected, newer technologies including cloud computing, mobile networking, big data analytics, Web 2.0, and social media must be developed and utilized. Web 2.0 and Cloud Technologies for Implementing Connected Government is an essential reference source that presents various dimensions of connected government and connected e-governance visions as well as the latest emerging technologies. Offering development methodologies, practical examples, best practices, case studies, and the latest research, this book covers new strategies for implementing better-connected government models and the technologies that serve to establish these frameworks, including in-depth examinations of mobile technologies, automation, business intelligence, etc. as well as the various ethical and security issues surrounding the use and protection of data. This book is essential for federal, state, and local government officials; policymakers; civil servants; IT specialists; security analysts; academicians; researchers; and students.

Cloud Computing - Stefan Reinheimer 2018-04-27

Das Herausgeberwerk zeigt Chancen und Risiken des Cloud Computings auf, bringt Lesern das Thema durch anschauliche Beispiele aus Forschung und Praxis näher und zeigt die Implikationen auf, die aus dieser neuen Infrastruktur resultieren. Die Beitragsautoren präsentieren technische Lösungen, Geschäftsmodelle und Visionen, die einerseits die Herausforderungen und Hürden des Cloud Computing aufgreifen – technisch, rechtlich, prozessbezogen – und andererseits die Chancen und Nutzen dieses Architekturansatzes in den Mittelpunkt stellen. Es ist zeitgemäß, IT-Infrastrukturen, Daten und Applikationen aus der lokalen Umgebung in eine Cloud auszulagern. Der Anwender kann sich der angebotenen IT-Dienstleistungen unter Nutzung von Self-Service-Ansätzen bedienen, in Abhängigkeit davon, was und wieviel er gerade benötigt – und auch nur dafür wird gezahlt. Bereitgestellt, gewartet und aktualisiert werden die IT-Ressourcen zentral. Je nach Art der IT-Dienstleistung, die über die Cloud bereitgestellt werden, unterscheidet man zwischen IaaS – Infrastructure as a Service, PaaS – Platform as a Service und SaaS – Software as a Service. Der Sicherheitsbedarf und die Leistungsfähigkeit der Unternehmens-IT entscheiden darüber, ob man diesen Zentralisierungsansatz unternehmensintern in einer Private Cloud oder unternehmensextern in einer Public Cloud umsetzt. Sogenannte Hybrid Clouds sind ein Mittelweg, der sich immer stärker etabliert. Das Buch richtet sich an alle, die sich umfassend und praxisnah zum Thema Cloud Computing informieren möchten und die nach einer modernen Infrastruktur für die Umsetzung von Digitalisierungsansätzen suchen.

Advanced Methodologies and Technologies in Network Architecture, Mobile Computing, and Data Analytics - Khosrow-Pour, D.B.A., Mehdi 2018-10-19

From cloud computing to data analytics, society stores vast supplies of information through wireless networks and mobile computing. As organizations are becoming increasingly more wireless, ensuring the security and seamless function of electronic gadgets while creating a strong network is imperative. Advanced Methodologies and Technologies in Network Architecture, Mobile Computing, and Data Analytics highlights the challenges associated with creating a strong network architecture in a perpetually online

society. Readers will learn various methods in building a seamless mobile computing option and the most effective means of analyzing big data. This book is an important resource for information technology professionals, software developers, data analysts, graduate-level students, researchers, computer engineers, and IT specialists seeking modern information on emerging methods in data mining, information technology, and wireless networks.

Enterprise Management Strategies in the Era of Cloud Computing - Rao, N. Raghavendra 2015-04-30

Recent advances in internet architecture have led to the advent and subsequent explosion of cloud computing technologies, providing businesses with a powerful toolbox of collaborative digital resources. These technologies have fostered a more flexible, decentralized approach to IT infrastructure, enabling businesses to operate in a more agile fashion and on a globalized scale. Enterprise Management Strategies in the Era of Cloud Computing seeks to explore the possibilities of business in the cloud. Targeting an audience of research scholars, students, software developers, and business professionals, this premier reference source provides a cutting-edge look at the exciting and multifaceted relationships between cloud computing, software virtualization, collaborative technology, and business infrastructure in the 21st Century.

Cloud Computing - Thomas Erl 2013

Explores cloud computing, breaking down the concepts, models, mechanisms, and architectures of this technology while allowing for the financial assessment of resources and how they compare to traditional storage systems.

Industry 4.0 Vision for the Supply of Energy and Materials - Mahdi Sharifzadeh 2022-06-01

Industry 4.0 Vision for the Supply of Energy and Materials Explore the impact of Industry 4.0 technologies on the supply chain with this authoritative text written by a leader in his field In Industry 4.0 Vision for the Supply of Energy and Materials, distinguished researcher and editor, Dr. Mahdi Sharifzadeh, delivers thematic, analytic, and applied discussions of the Industry 4.0 vision for supply chain design and operation. The book compiles all current aspects and emerging notions of Industry 4.0 into clusters of "enablers" and "analytics" of Supply Chain 4.0. Their multifaceted and highly interconnected nature is discussed at length, as are their diverse range of applications. You will discover uses of these new technologies ranging from the supply of conventional energy networks to renewables, pharmaceuticals, and additive manufacturing. You will also learn about their implications for economic prosperity and environmental sustainability. For each sector, this book scrutinizes current industrial practice and discusses developing concepts. Finally, the book concludes with potential future research directions of interest to industry practitioners and academics alike. Readers will also benefit from the inclusion of: A thorough introduction to connectivity through wireless communications and remote sensors An exploration of blockchains and smart contracts, as well as robotics and automation and cloud computing Practical discussions of supply chain analytics, including big data, machine-learning, and artificial intelligence, as well as supply chain modeling, optimization, and control A concise treatment of Industry 4.0 applications in supply chain design and operation, including the circular economy and the power industry An analysis of the oil, gas, and petrochemical industry, the pharmaceutical industry, and additive manufacturing Perfect for PhD-level and Postdoctoral researchers and industrial researchers, Industry 4.0 Vision for the Supply of Energy and Materials will also earn a place in the libraries of working professionals with an interest in the quantitative analysis of Supply Chain 4.0 concepts and techniques.

Internationales Management - Dirk Holtbrügge 2015-06-30

Ob Großkonzern oder Mittelständler, ob erfahrener "Global Player" oder Neuling. Das Standardlehrbuch analysiert die unterschiedlichen Anforderungen, Probleme und Gestaltungsmöglichkeiten international operierender Unternehmen und bietet praxiserprobte Konzepte anhand von neun Fallstudien an. Für die 6. Auflage wurden alle Kapitel und Fallstudien überarbeitet. Aktuelle Entwicklungen - wie z.B. die ökonomischen Auswirkungen der Sanktionen gegen Russland - wurden dabei ebenso berücksichtigt wie neuere Studien zu Markteintrittsstrategien, Organisationsformen und der Steuerung internationaler Unternehmenstätigkeit.

SOA Design Patterns - Thomas Erl 2008-12-31

In cooperation with experts and practitioners throughout the SOA community, best-selling author Thomas

Erl brings together the de facto catalog of design patterns for SOA and service-orientation. More than three years in development and subjected to numerous industry reviews, the 85 patterns in this full-color book provide the most successful and proven design techniques to overcoming the most common and critical problems to achieving modern-day SOA. Through numerous examples, individually documented pattern profiles, and over 400 color illustrations, this book provides in-depth coverage of: • Patterns for the design, implementation, and governance of service inventories-collections of services representing individual service portfolios that can be independently modeled, designed, and evolved. • Patterns specific to service-level architecture which pertain to a wide range of design areas, including contract design, security, legacy encapsulation, reliability, scalability, and a variety of implementation and governance issues. • Service composition patterns that address the many aspects associated with combining services into aggregate distributed solutions, including topics such as runtime messaging and message design, inter-service security controls, and transformation. • Compound patterns (such as Enterprise Service Bus and Orchestration) and recommended pattern application sequences that establish foundational processes. The book begins by establishing SOA types that are referenced throughout the patterns and then form the basis of a final chapter that discusses the architectural impact of service-oriented computing in general. These chapters bookend the pattern catalog to provide a clear link between SOA design patterns, the strategic goals of service-oriented computing, different SOA types, and the service-orientation design paradigm. This book series is further supported by a series of resources sites, including soabooks.com, soaspecs.com, soapatterns.org, soamag.com, and soaposters.com.

Service-oriented Architecture - Thomas Erl 2005

Provides information on how to model and design service-oriented SOA platforms.

Biometric Technology - Ravi Das 2014-11-07

Most biometric books are either extraordinarily technical for technophiles or extremely elementary for the lay person. Striking a balance between the two, Biometric Technology: Authentication, Biocryptography, and Cloud-Based Architecture is ideal for business, IT, or security managers that are faced with the task of making purchasing, migration, o

Web-Services mit REST - Leonard Richardson 2007

Cloud Computing Security - John R. Vacca 2020-11-09

This handbook offers a comprehensive overview of cloud computing security technology and implementation while exploring practical solutions to a wide range of cloud computing security issues. As more organizations use cloud computing and cloud providers for data operations, the need for proper security in these and other potentially vulnerable areas has become a global priority for organizations of all sizes. Research efforts from academia and industry, as conducted and reported by experts in all aspects of security related to cloud computing, are gathered within one reference guide. Features • Covers patching and configuration vulnerabilities of a cloud server • Evaluates methods for data encryption and long-term storage in a cloud server • Demonstrates how to verify identity using a certificate chain and how to detect inappropriate changes to data or system configurations John R. Vacca is an information technology consultant and internationally known author of more than 600 articles in the areas of advanced storage, computer security, and aerospace technology. John was also a configuration management specialist, computer specialist, and the computer security official (CSO) for NASA's space station program (Freedom) and the International Space Station Program from 1988 until his retirement from NASA in 1995.

DevOps für Dummies - Emily Freeman 2019-12-09

Arbeiten auch Sie nach DevOps-Prinzipien? Sollen oder wollen Sie umstellen? Was ist wichtig? Worauf kommt es an? Das Ziel von DevOps ist, dass Softwareentwicklung und IT-Auslieferung Hand in Hand arbeiten. Das ermöglicht schnellere Release-Zyklen und schont die Ressourcen. Wie das im Einzelnen geht, zeigt dieses Buch. Es stellt eine Roadmap für die Umstellung zur Verfügung, nennt notwendige Management- und Technologie-Entscheidungen und -Tools und scheidet auch nicht davor zurück, notwendige Unternehmenskulturänderungen zu benennen, damit der Sprung ins DevOps-Gewässer gelingt.

Patterns für Enterprise-Application-Architekturen - Martin Fowler 2003

Encyclopedia of Information Science and Technology, Fourth Edition - Khosrow-Pour, D.B.A., Mehdi 2017-06-20

In recent years, our world has experienced a profound shift and progression in available computing and knowledge sharing innovations. These emerging advancements have developed at a rapid pace, disseminating into and affecting numerous aspects of contemporary society. This has created a pivotal need for an innovative compendium encompassing the latest trends, concepts, and issues surrounding this relevant discipline area. During the past 15 years, the Encyclopedia of Information Science and Technology has become recognized as one of the landmark sources of the latest knowledge and discoveries in this discipline. The Encyclopedia of Information Science and Technology, Fourth Edition is a 10-volume set which includes 705 original and previously unpublished research articles covering a full range of perspectives, applications, and techniques contributed by thousands of experts and researchers from around the globe. This authoritative encyclopedia is an all-encompassing, well-established reference source that is ideally designed to disseminate the most forward-thinking and diverse research findings. With critical perspectives on the impact of information science management and new technologies in modern settings, including but not limited to computer science, education, healthcare, government, engineering, business, and natural and physical sciences, it is a pivotal and relevant source of knowledge that will benefit every professional within the field of information science and technology and is an invaluable addition to every academic and corporate library.

Cloud-Service-Zertifizierung - Sebastian Lins 2019-09-04

Dieses Buch liefert ein Rahmenwerk zur Zertifizierung von Services in der Cloud. Herzstück dabei ist ein umfangreicher Kriterienkatalog zum Assessment von Cloud-Services, der im Forschungsprojekt „Value4Cloud“, gefördert vom Bundesministerium für Wirtschaft und Technologie, entwickelt wurde. Cloud-Service-Anwender werden bei der Bewertung, dem Vergleich und der Auswahl von Services unterstützt. Das Buch eignet sich auch für Cloud-Service-Anbieter zum Self-Assessment und zur Verbesserung der eigenen Services.

Advanced Research on Cloud Computing Design and Applications - Aljawarneh, Shadi 2015-09-23

Modern society requires a specialized, persistent approach to IT service delivery. Cloud computing offers the most logical answer through a highly dynamic and virtualized resource made available by an increasing number of service providers. Advanced Research on Cloud Computing Design and Applications shares the latest high quality research results on cloud computing and explores the broad applicability and scope of these trends on an international scale, venturing into the hot-button issue of IT services evolution and what we need to do to be prepared for future developments in cloud computing. This book is an essential reference source for researchers and practitioners in the field of cloud computing, as well as a guide for students, academics, or anyone seeking to learn more about advancement in IT services. This publication features chapters covering a broad range of relevant topics, including cloud computing for e-government, cloud computing in the public sector, security in the cloud, hybrid clouds and outsourced data, IT service personalization, and supply chain in the cloud.

Fostering Communication and Learning With Underutilized Technologies in Higher Education - Ali, Mohammed Banu 2020-09-04

Higher education is undergoing radical changes with the arrival of emerging technology that can facilitate better teaching and learning experiences. However, with a lack of technical awareness, technophobia, and security and trust issues, there are several barriers to the uptake of emerging technologies. As a result, many of these new technologies have been overlooked or underutilized. In the information systems and higher education domains, there exists a need to explore underutilized technologies in higher education that can foster communication and learning. *Fostering Communication and Learning With Underutilized Technologies in Higher Education* is a critical reference source that provides contemporary theories in the area of technology-driven communication and learning in higher education. The book offers new knowledge about educational technologies and explores such themes as artificial intelligence, digital learning platforms, gamification tools, and interactive exhibits. The target audience includes researchers, academicians, practitioners, and students who are working or have a keen interest in information systems, learning technologies, and technology-led teaching and learning. Moreover, the book provides an

understanding and support to higher education practitioners, faculty, educational board members, technology vendors and firms, and the Ministry of Education.

Advances on P2P, Parallel, Grid, Cloud and Internet Computing - Fatos Xhafa 2016-10-21

P2P, Grid, Cloud and Internet computing technologies have been very fast established as breakthrough paradigms for solving complex problems by enabling aggregation and sharing of an increasing variety of distributed computational resources at large scale. The aim of this volume is to provide latest research findings, innovative research results, methods and development techniques from both theoretical and practical perspectives related to P2P, Grid, Cloud and Internet computing as well as to reveal synergies among such large scale computing paradigms. This proceedings volume presents the results of the 11th International Conference on P2P, Parallel, Grid, Cloud And Internet Computing (3PGCIC-2016), held November 5-7, 2016, at Soonchunhyang University, Asan, Korea

Third International Congress on Information and Communication Technology - Xin-She Yang 2018-09-28

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.

The Web at Graduation and Beyond - Gottfried Vossen 2017-08-17

This book provides a comprehensive treatment of the rapidly changing world of Web-based business technologies and their often-disruptive innovations. The history of the Web is a short one. Indeed many college graduates today were not even born when the Web first emerged. It is therefore an opportune time to view the Web as having reached the point of graduation. The Web has led to new ways in which businesses connect and operate, and how individuals communicate and socialize; related technologies include cloud computing, social commerce, crowd sourcing, and the Internet of Things, to name but a few. These developments, including their technological foundations and business impacts, are at the heart of the book. It contextualizes these topics by providing a brief history of the World Wide Web, both in terms of the technological evolution and its resultant business impacts. The book was written for a broad audience, including technology managers and students in higher education. It is also intended as a guide for people who grew up with a background in business administration or engineering or a related area but who, in the course of their career paths, have reached a point where IT-related decisions have become their daily business, e.g., in digital transformation. The book describes the most important Web technologies and related business applications, and especially focuses on the business implications of these technologies. As such, it offers a solid technology- and business-focused view on the impact of the Web, and balances rules and approaches for strategy development and decision making with a certain technical understanding of what goes on “behind the scenes.”

Research Anthology on Big Data Analytics, Architectures, and Applications - Management Association, Information Resources 2021-09-24

Society is now completely driven by data with many industries relying on data to conduct business or basic functions within the organization. With the efficiencies that big data bring to all institutions, data is continuously being collected and analyzed. However, data sets may be too complex for traditional data-processing, and therefore, different strategies must evolve to solve the issue. The field of big data works as a valuable tool for many different industries. The *Research Anthology on Big Data Analytics, Architectures, and Applications* is a complete reference source on big data analytics that offers the latest, innovative architectures and frameworks and explores a variety of applications within various industries. Offering an international perspective, the applications discussed within this anthology feature global representation. Covering topics such as advertising curricula, driven supply chain, and smart cities, this research anthology is ideal for data scientists, data analysts, computer engineers, software engineers, technologists, government officials, managers, CEOs, professors, graduate students, researchers, and academicians.

Entwurfsmuster - Erich Gamma 2004

Advances in Theory and Practice of Computational Mechanics - Lakhmi C. Jain 2020-03-31

This book discusses physical and mathematical models, numerical methods, computational algorithms and software complexes, which allow high-precision mathematical modeling in fluid, gas, and plasma mechanics; general mechanics; deformable solid mechanics; and strength, destruction and safety of structures. These proceedings focus on smart technologies and software systems that provide effective solutions to real-world problems in applied mechanics at various multi-scale levels. Highlighting the training of specialists for the aviation and space industry, it is a valuable resource for experts in the field of applied mathematics and mechanics, mathematical modeling and information technologies, as well as developers of smart applied software systems.

Datenintensive Anwendungen designen - Martin Kleppmann 2018-11-26

Daten stehen heute im Mittelpunkt vieler Herausforderungen im Systemdesign. Dabei sind komplexe Fragen wie Skalierbarkeit, Konsistenz, Zuverlässigkeit, Effizienz und Wartbarkeit zu klären. Darüber hinaus verfügen wir über eine überwältigende Vielfalt an Tools, einschließlich relationaler Datenbanken, NoSQL-Datenspeicher, Stream- und Batchprocessing und Message Broker. Aber was verbirgt sich hinter diesen Schlagworten? Und was ist die richtige Wahl für Ihre Anwendung? In diesem praktischen und umfassenden Leitfaden unterstützt Sie der Autor Martin Kleppmann bei der Navigation durch dieses schwierige Terrain, indem er die Vor- und Nachteile verschiedener Technologien zur Verarbeitung und Speicherung von Daten aufzeigt. Software verändert sich ständig, die Grundprinzipien bleiben aber gleich. Mit diesem Buch lernen Softwareentwickler und -architekten, wie sie die Konzepte in der Praxis umsetzen und wie sie Daten in modernen Anwendungen optimal nutzen können. Inspizieren Sie die Systeme, die Sie bereits verwenden, und erfahren Sie, wie Sie sie effektiver nutzen können. Treffen Sie fundierte Entscheidungen, indem Sie die Stärken und Schwächen verschiedener Tools kennenlernen. Steuern Sie die notwendigen Kompromisse in Bezug auf Konsistenz, Skalierbarkeit, Fehlertoleranz und Komplexität. Machen Sie sich vertraut mit dem Stand der Forschung zu verteilten Systemen, auf denen moderne Datenbanken aufbauen. Werfen Sie einen Blick hinter die Kulissen der wichtigsten Onlinedienste und lernen Sie von deren Architekturen.

Künstliche Intelligenz für Dummies - Ralf Otte 2019-06-05

Künstliche Intelligenz begegnet uns immer mehr im täglichen Leben. Egal ob intelligente Autos, Roboter, Chatbots oder Systeme, die uns im Schach und Go besiegen, KI wird immer wichtiger. Ralf Otte beschreibt präzise und dennoch einfach diejenigen Algorithmen, die all das ermöglicht haben, erläutert Beispielanwendungen aus der Industrie, erklärt die zugrundeliegende Mathematik und zeigt darüber hinaus klare Grenzen für die Künstliche Intelligenz der nächsten Jahre auf. Egal ob Informatiker oder nicht, um dieses Buch zu verstehen genügt Mathematikwissen auf Oberstufenniveau.

Android-Programmierung - Brian Hardy 2012

Cloud Computing Technology - Huawei Technologies Co., Ltd. 2022-11-05

This open access book introduces cloud computing and related technologies from the concept, technology, and architecture of cloud computing, combined with typical application cases of cloud; provides students with a more complete knowledge framework in the field of cloud computing; and lays the foundation for future research, development, and further study in cloud computing, big data, and other related fields. As the world's leading provider of ICT (information and communication technology) infrastructure and intelligence terminals, Huawei's products are already available in a number of areas, including connectivity, security, wireless, storage, cloud computing, intelligent computing, and artificial intelligence.

Essentials of Computer Organization and Architecture - Linda Null 2014-02-17

In its fourth edition, this book focuses on real-world examples and practical applications and encourages students to develop a "big-picture" understanding of how essential organization and architecture concepts are applied in the computing world. In addition to direct correlation with the ACM/IEEE CS2013 guidelines for computer organization and architecture, the text exposes readers to the inner workings of a modern digital computer through an integrated presentation of fundamental concepts and principles. It includes the most up-to-the-minute data and resources available and reflects current technologies, including tablets and cloud computing. All-new exercises, expanded discussions, and feature boxes in every chapter implement even more real-world applications and current data, and many chapters include all-new examples. --