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The DAMA Dictionary of Data Management - DAMA International 2011

A glossary of over 2,000 terms which provides a common data management vocabulary for IT and Business professionals, and is a companion to the DAMA Data Management Body of Knowledge (DAMA-DMBOK). Topics include: Analytics & Data Mining Architecture Artificial Intelligence Business Analysis DAMA & Professional Development Databases & Database Design Database Administration Data Governance & Stewardship Data Management Data Modeling Data Movement & Integration Data Quality Management Data Security Management Data Warehousing & Business Intelligence Document, Record & Content Management Finance & Accounting Geospatial Data Knowledge Management Marketing & Customer Relationship Management Meta-Data Management Multi-dimensional & OLAP Normalization Object-Orientation Parallel Database Processing Planning Process Management Project Management Reference & Master Data Management Semantic Modeling Software Development Standards Organizations Structured Query Language (SQL) XML Development

Posthumanism - Stefan Herbrechter 2013-08-01

What does it mean to be human today? The answer to this question, which is as old as the human species itself, is becoming less and less certain. Current technological developments increasingly erode our traditional humanist reflexes: consciousness, emotion, language, intelligence, morality, humour, mortality - all these no longer demonstrate the unique character and value of human existence. Instead, the spectre of the 'posthuman' is now being widely invoked as the 'inevitable' next evolutionary stage that humans are facing. Who comes after the human? This is the question that posthumanists are taking as their starting point. This critical introduction understands posthumanism as a discourse, which, in principle, includes everything that has been and is being said about the figure of the 'posthuman'. It outlines the genealogy of the various posthuman 'scenarios' in circulation and engages with their theoretical

and philosophical assumptions and social and political implications. It does so by connecting the philosophical debate about the future of humanity with a range of texts, including examples from new media, popular culture, science and the media.

Social Engineering - Christopher Hadnagy 2018-06-25

Harden the human firewall against the most current threats Social Engineering: The Science of Human Hacking reveals the craftier side of the hacker's repertoire—why hack into something when you could just ask for access? Undetectable by firewalls and antivirus software, social engineering relies on human fault to gain access to sensitive spaces; in this book, renowned expert Christopher Hadnagy explains the most commonly-used techniques that fool even the most robust security personnel, and shows you how these techniques have been used in the past. The way that we make decisions as humans affects everything from our emotions to our security. Hackers, since the beginning of time, have figured out ways to exploit that decision making process and get you to take an action not in your best interest. This new Second Edition has been updated with the most current methods used by sharing stories, examples, and scientific study behind how those decisions are exploited. Networks and systems can be hacked, but they can also be protected; when the "system" in question is a human being, there is no software to fall back on, no hardware upgrade, no code that can lock information down indefinitely. Human nature and emotion is the secret weapon of the malicious social engineering, and this book shows you how to recognize, predict, and prevent this type of manipulation by taking you inside the social engineer's bag of tricks. Examine the most common social engineering tricks used to gain access Discover which popular techniques generally don't work in the real world Examine how our understanding of the science behind emotions and decisions can be used by social engineers Learn how social engineering factors into some of the biggest recent headlines Learn how to use these skills as a professional social engineer and secure your company Adopt effective counter-measures to keep hackers at bay By working from the social engineer's playbook, you gain the advantage of foresight that can help you protect yourself and others from even their best efforts. Social Engineering gives you the inside information you need to mount an unshakeable defense.

Business Analytics Using R - A Practical Approach - Umesh R Hodeghatta
2016-12-27

Learn the fundamental aspects of the business statistics, data mining, and machine learning techniques required to understand the huge amount of data generated by your organization. This book explains practical business analytics through examples, covers the steps involved in using it correctly, and shows you the context in which a particular technique does not make sense. Further, Practical Business Analytics using R helps you understand specific issues faced by organizations and how the solutions to these issues can be facilitated by business analytics. This book will discuss and explore the following through examples and case studies: An introduction to R: data management and R functions The architecture, framework, and life cycle of a business analytics project Descriptive analytics using R: descriptive statistics and data cleaning Data mining: classification, association rules, and clustering Predictive analytics: simple regression, multiple regression, and logistic regression This book includes case studies on important business analytic techniques, such as classification, association, clustering, and regression. The R language is the statistical tool used to demonstrate the concepts throughout the book. What You Will Learn • Write R programs to handle data • Build analytical models and draw useful inferences from them • Discover the basic concepts of data mining and machine learning • Carry out predictive modeling • Define a business issue as

an analytical problem Who This Book Is For Beginners who want to understand and learn the fundamentals of analytics using R. Students, managers, executives, strategy and planning professionals, software professionals, and BI/DW professionals.

Data Visualisation with R - Thomas Rahlf 2017-01-31

This book introduces readers to the fundamentals of creating presentation graphics using R, based on 100 detailed and complete scripts. It shows how bar and column charts, population pyramids, Lorenz curves, box plots, scatter plots, time series, radial polygons, Gantt charts, heat maps, bump charts, mosaic and balloon charts, and a series of different thematic map types can be created using R's Base Graphics System. Every example uses real data and includes step-by-step explanations of the figures and their programming. The open source software R is an established standard and a powerful tool for various visualizing applications, integrating nearly all technologies relevant for data visualization. The basic software, enhanced by more than 7000 extension packs currently freely available, is intensively used by organizations including Google, Facebook and the CIA. The book serves as a comprehensive reference guide to a broad variety of applications in various fields. This book is intended for all kinds of R users, ranging from experts, for whom especially the example codes are particularly useful, to beginners, who will find the finished graphics most helpful in learning what R can actually deliver.

CUCKOO'S EGG - Clifford Stoll 2012-05-23

Before the Internet became widely known as a global tool for terrorists, one perceptive U.S. citizen recognized its ominous potential. Armed with clear evidence of computer espionage, he began a highly personal quest to expose a hidden network of spies that threatened national security. But would the authorities back him up? Cliff Stoll's dramatic firsthand account is "a computer-age detective story, instantly fascinating [and] astonishingly gripping" (Smithsonian). Cliff Stoll was an astronomer turned systems manager at Lawrence Berkeley Lab when a 75-cent accounting error alerted him to the presence of an unauthorized user on his system. The hacker's code name was "Hunter"—a mysterious invader who managed to break into U.S. computer systems and steal sensitive military and security information. Stoll began a one-man hunt of his own: spying on the spy. It was a dangerous game of deception, broken codes, satellites, and missile bases—a one-man sting operation that finally gained the attention of the CIA . . . and ultimately trapped an international spy ring fueled by cash, cocaine, and the KGB.

The Handbook of Information Security for Advanced Neuroprosthetics - Matthew E. Gladden 2017-02-20

How does one ensure information security for a computer that is entangled with the structures and processes of a human brain - and for the human mind that is interconnected with such a device? The need to provide information security for neuroprosthetic devices grows more pressing as increasing numbers of people utilize therapeutic technologies such as cochlear implants, retinal prostheses, robotic prosthetic limbs, and deep brain stimulation devices. Moreover, emerging neuroprosthetic technologies for human enhancement are expected to increasingly transform their human users' sensory, motor, and cognitive capacities in ways that generate new 'posthumanized' sociotechnological realities. In this context, it is essential not only to ensure the information security of such neuroprostheses themselves but - more importantly - to ensure the psychological and physical health, autonomy, and personal identity of the human beings whose cognitive processes are inextricably linked with such devices. InfoSec practitioners must not only guard against threats to the confidentiality and integrity of data stored within a neuroprosthetic device's

internal memory; they must also guard against threats to the confidentiality and integrity of thoughts, memories, and desires existing within the mind of the device's human host. This second edition of *The Handbook of Information Security for Advanced Neuroprosthetics* updates the previous edition's comprehensive investigation of these issues from both theoretical and practical perspectives. It provides an introduction to the current state of neuroprosthetics and expected future trends in the field, along with an introduction to fundamental principles of information security and an analysis of how they must be re-envisioned to address the unique challenges posed by advanced neuroprosthetics. A two-dimensional cognitional security framework is presented whose security goals are designed to protect a device's human host in his or her roles as a sapient metavolitional agent, embodied embedded organism, and social and economic actor. Practical consideration is given to information security responsibilities and roles within an organizational context and to the application of preventive, detective, and corrective or compensating security controls to neuroprosthetic devices, their host-device systems, and the larger supersystems in which they operate. Finally, it is shown that while implantable neuroprostheses create new kinds of security vulnerabilities and risks, they may also serve to enhance the information security of some types of human hosts (such as those experiencing certain neurological conditions).

R for Marketing Research and Analytics - Chris Chapman 2015-03-09

This book is a complete introduction to the power of R for marketing research practitioners. The text describes statistical models from a conceptual point of view with a minimal amount of mathematics, presuming only an introductory knowledge of statistics. Hands-on chapters accelerate the learning curve by asking readers to interact with R from the beginning. Core topics include the R language, basic statistics, linear modeling, and data visualization, which is presented throughout as an integral part of analysis. Later chapters cover more advanced topics yet are intended to be approachable for all analysts. These sections examine logistic regression, customer segmentation, hierarchical linear modeling, market basket analysis, structural equation modeling, and conjoint analysis in R. The text uniquely presents Bayesian models with a minimally complex approach, demonstrating and explaining Bayesian methods alongside traditional analyses for analysis of variance, linear models, and metric and choice-based conjoint analysis. With its emphasis on data visualization, model assessment, and development of statistical intuition, this book provides guidance for any analyst looking to develop or improve skills in R for marketing applications.

Tacky - Rax King 2021-11-02

An irreverent and charming collection of deeply personal essays about the joys of low pop culture and bad taste, exploring coming of age in the 2000s in the age of Hot Topic, Creed, and frosted lip gloss—from the James Beard Award-nominated writer of the *Catapult* column "Store-Bought Is Fine" Tacky is about the power of pop culture—like any art—to imprint itself on our lives and shape our experiences, no matter one's commitment to "good" taste. These fourteen essays are a nostalgia-soaked antidote to the millennial generation's obsession with irony, putting the aesthetics we hate to love—snakeskin pants, Sex and the City, Cheesecake Factory's gargantuan menu—into kinder and sharper perspective. Each essay revolves around a different maligned (and yet, Rax would argue, vital) cultural artifact, providing thoughtful, even romantic meditations on desire, love, and the power of nostalgia. An essay about the gym-tan-laundry exuberance of Jersey Shore morphs into an excavation of grief over the death of her father; in "You Wanna Be On Top," Rax writes about friendship and early aughts girlhood; in another, Guy Fieri helps her heal from an abusive relationship. The result is a collection that captures the personal and

generational experience of finding joy in caring just a little too much with clarity, heartfelt honesty, and Rax King's trademark humor. A VINTAGE ORIGINAL
Defense against the Black Arts - Jesse Varsalone 2011-09-07

As technology has developed, computer hackers have become increasingly sophisticated, mastering the ability to hack into even the most impenetrable systems. The best way to secure a system is to understand the tools hackers use and know how to circumvent them. *Defense against the Black Arts: How Hackers Do What They Do and How to Protect against It* provides hands-on instruction to a host of techniques used to hack into a variety of systems. Exposing hacker methodology with concrete examples, this book shows you how to outwit computer predators at their own game. Among the many things you'll learn: How to get into a Windows operating system without having the username or password vulnerabilities associated with passwords and how to keep them out of the hands of hackers How hackers use the techniques of computer forensic examiners to wreak havoc on individuals and companies Hiding one's IP address to avoid detection Manipulating data to and from a web page or application for nefarious reasons How to find virtually anything on the internet How hackers research the targets they plan to attack How network defenders collect traffic across the wire to indentify intrusions Using Metasploit to attack weaknesses in systems that are unpatched or have poorly implemented security measures The book profiles a variety of attack tools and examines how Facebook and other sites can be used to conduct social networking attacks. It also covers techniques utilized by hackers to attack modern operating systems, such as Windows 7, Windows Vista, and Mac OS X. The author explores a number of techniques that hackers can use to exploit physical access, network access, and wireless vectors. Using screenshots to clarify procedures, this practical manual uses step-by-step examples and relevant analogies to facilitate understanding, giving you an insider's view of the secrets of hackers.
Alliance Power for Cybersecurity - Kenneth Geers 2020-04-24

Security of Networks and Services in an All-Connected World - Daphne Tuncer 2017-06-29

This book is open access under a CC BY 4.0 license. This book constitutes the refereed proceedings of the 11th IFIP WG 6.6 International Conference on Autonomous Infrastructure, Management, and Security, AIMS 2017, held in Zurich, Switzerland, in July 2017. The 8 full papers presented together with 11 short papers were carefully reviewed and selected from 24 submissions. The papers are organized in the following topical sections: security management; management of cloud environments and services, evaluation and experimental study of rich network services; security, intrusion detection, and configuration; autonomic and self-management solutions; and methods for the protection of infrastructure.

The InfoSec Handbook - Umesha Nayak 2014-09-17

The InfoSec Handbook offers the reader an organized layout of information that is easily read and understood. Allowing beginners to enter the field and understand the key concepts and ideas, while still keeping the experienced readers updated on topics and concepts. It is intended mainly for beginners to the field of information security, written in a way that makes it easy for them to understand the detailed content of the book. The book offers a practical and simple view of the security practices while still offering somewhat technical and detailed information relating to security. It helps the reader build a strong foundation of information, allowing them to move forward from the book with a larger knowledge base. Security is a constantly growing concern that everyone must deal with. Whether it's an average computer user or a highly skilled computer user, they are always confronted with different security

risks. These risks range in danger and should always be dealt with accordingly. Unfortunately, not everyone is aware of the dangers or how to prevent them and this is where most of the issues arise in information technology (IT). When computer users do not take security into account many issues can arise from that like system compromises or loss of data and information. This is an obvious issue that is present with all computer users. This book is intended to educate the average and experienced user of what kinds of different security practices and standards exist. It will also cover how to manage security software and updates in order to be as protected as possible from all of the threats that they face.

Pro Linux System Administration - Dennis Matotek 2017-03-14

Implement a SOHO or SMB Linux infrastructure to expand your business and associated IT capabilities. Backed by the expertise and experienced guidance of the authors, this book provides everything you need to move your business forward. Pro Linux System Administration makes it easy for small- to medium-sized businesses to enter the world of zero-cost software running on Linux and covers all the distros you might want to use, including Red Hat, Ubuntu, Debian, and CentOS. Pro Linux System Administration takes a layered, component-based approach to open source business systems, while training system administrators as the builders of business infrastructure. Completely updated for this second edition, Dennis Matotek takes you through an infrastructure-as-code approach, seamlessly taking you through steps along the journey of Linux administration with all you need to master complex systems. This edition now includes Jenkins, Ansible, Logstash and more. What You'll Learn: Understand Linux architecture Build, back up, and recover Linux servers Create basic networks and network services with Linux Build and implement Linux infrastructure and services including mail, web, databases, and file and print Implement Linux security Resolve Linux performance and capacity planning issues Who This Book Is For: Small to medium-sized business owners looking to run their own IT, system administrators considering migrating to Linux, and IT systems integrators looking for an extensible Linux infrastructure management approach.

The Turing Bombe - Frank Carter 2008

Strategic Cyber Security - Kenneth Geers 2011

Cloud Application Architectures - George Reese 2009-04-01

If you're involved in planning IT infrastructure as a network or system architect, system administrator, or developer, this book will help you adapt your skills to work with these highly scalable, highly redundant infrastructure services. While analysts hotly debate the advantages and risks of cloud computing, IT staff and programmers are left to determine whether and how to put their applications into these virtualized services. Cloud Application Architectures provides answers -- and critical guidance -- on issues of cost, availability, performance, scaling, privacy, and security. With Cloud Application Architectures, you will: Understand the differences between traditional deployment and cloud computing Determine whether moving existing applications to the cloud makes technical and business sense Analyze and compare the long-term costs of cloud services, traditional hosting, and owning dedicated servers Learn how to build a transactional web application for the cloud or migrate one to it Understand how the cloud helps you better prepare for disaster recovery Change your perspective on application scaling To provide realistic examples of the book's principles in action, the author delves into some of the choices and operations available on Amazon Web Services, and includes high-level summaries of several of the other services available on the

market today. Cloud Application Architectures provides best practices that apply to every available cloud service. Learn how to make the transition to the cloud and prepare your web applications to succeed.

Building the Infrastructure for Cloud Security - Raghuram Yeluri 2014-03-31
For cloud users and providers alike, security is an everyday concern, yet there are very few books covering cloud security as a main subject. This book will help address this information gap from an Information Technology solution and usage-centric view of cloud infrastructure security. The book highlights the fundamental technology components necessary to build and enable trusted clouds. Here also is an explanation of the security and compliance challenges organizations face as they migrate mission-critical applications to the cloud, and how trusted clouds, that have their integrity rooted in hardware, can address these challenges. This book provides: Use cases and solution reference architectures to enable infrastructure integrity and the creation of trusted pools leveraging Intel Trusted Execution Technology (TXT). Trusted geo-location management in the cloud, enabling workload and data location compliance and boundary control usages in the cloud. OpenStack-based reference architecture of tenant-controlled virtual machine and workload protection in the cloud. A reference design to enable secure hybrid clouds for a cloud bursting use case, providing infrastructure visibility and control to organizations. "A valuable guide to the next generation of cloud security and hardware based root of trust. More than an explanation of the what and how, is the explanation of why. And why you can't afford to ignore it!" -Vince Lubsey, Vice President, Product Development, Virtustream Inc. " Raghu provides a valuable reference for the new 'inside out' approach, where trust in hardware, software, and privileged users is never assumed-but instead measured, attested, and limited according to least privilege principles." -John Skinner, Vice President, HyTrust Inc. "Traditional parameter based defenses are insufficient in the cloud. Raghu's book addresses this problem head-on by highlighting unique usage models to enable trusted infrastructure in this open environment. A must read if you are exposed in cloud." -Nikhil Sharma, Sr. Director of Cloud Solutions, Office of CTO, EMC Corporation

Multiagent System Technologies - Gabriela Lindemann-v. Trzebiatowski 2004-11-16
After the huge success of the first German Conference on Multiagent System Technologies (MATES) last year in Erfurt the German Special Interest Group on Distributed Artificial Intelligence together with the steering committee of MATES proudly organized and conducted this international conference for the second time. The goal of the MATES conference is to constitute a high-quality platform for the presentation and discussion of new research results and system developments. It provides an interdisciplinary forum for researchers, users, and developers, to present and discuss the latest advances in research work, as well as prototyped or fielded systems of intelligent agents. The conference covers the complete range from theory to application of agent and multiagent technologies. MATES 2004 was conducted - as an integral part of the 5th International Conference Net.ObjectDays2004 along with the - 8th International Workshop on Cooperative Information Agents (CIA) 2004 - Autumn meeting of FIPA (Foundation for Intelligent Physical Agents) - Prototype and Product Exhibition of Agent Related Platforms, Frameworks, Systems, Applications, and Tools As such all these events together may have formed the biggest agent-related event of this year in Europe and one of the biggest worldwide. The call-for-papers attracted about 60 submissions from all over the world. After a careful reviewing process, the international program committee accepted 22 high-quality papers of particular relevance and quality. The selected contributions cover a wide range of exciting topics, in particular agent analysis and security, agent negotiation and control, agents and software engineering, simulation and agents, and agent

policies and testing. Exciting highlights of the conference were the invited talks, by Jim Odell on Agent UML 2.0: Too Radical or Not Radical Enough?, and Cristiano Castelfranchi on Emergence and Cognition: Towards a Synthetic Paradigm in AI and Cognitive Science. Moreover, several agent-related tutorials were conducted.

Human ICT Implants: Technical, Legal and Ethical Considerations - Mark N. Gasson 2012-06-16

Human information and communication technology (ICT) implants have developed for many years in a medical context. Such applications have become increasingly advanced, in some cases modifying fundamental brain function. Today, comparatively low-tech implants are being increasingly employed in non-therapeutic contexts, with applications ranging from the use of ICT implants for VIP entry into nightclubs, automated payments for goods, access to secure facilities and for those with a high risk of being kidnapped. Commercialisation and growing potential of human ICT implants have generated debate over the ethical, legal and social aspects of the technology, its products and application. Despite stakeholders calling for greater policy and legal certainty within this area, gaps have already begun to emerge between the commercial reality of human ICT implants and the current legal frameworks designed to regulate these products. This book focuses on the latest technological developments and on the legal, social and ethical implications of the use and further application of these technologies.

Neuroprosthetic Supersystems Architecture - Matthew E. Gladden 2017-05-13

This volume serves as a resource for the design and analysis of neuroprosthetic supersystems, which can be defined as organizations - either small or large, simple or complex - whose human members have been neuroprosthetically augmented. While numerous other texts focus on the biomedical engineering of neuroprostheses as technological devices or on the biocybernetic engineering of the host-device system comprising a neuroprosthesis and its human host, this volume presents a unique investigation of the intentional creation of higher-order supersystems that allow multiple neuroprosthetically augmented human beings to interact with one another and with external information systems in order to accomplish some shared task. In essence, this can be understood as the work of designing and managing neuroprosthetically enhanced organizations. Individual chapters present an ontology of the neuroprosthesis as a computing device; a biocybernetic ontology of the host-device system; an ontology of the neuroprosthesis as an instrument of 'cyborgization'; motivating and inhibiting factors for the organizational deployment of posthumanizing neuroprostheses by military organizations and other early adopters; an introduction to enterprise architecture in the context of technological posthumanization; an exploration of the implications of neuroprosthetic augmentation for enterprise architecture; and considerations for the development of effective network topologies for neuroprosthetically augmented organizations. The conceptual frameworks formulated within this book offer a wide range of tools that can be of use to policymakers, ethicists, neuroprosthetic device manufacturers, organizational decision-makers, and others who must analyze or manage the complex legal, ethical, and managerial implications that result from the use of emerging neuroprosthetic technologies within an organizational context.

Lectures on Data Security - Ivan Damgard 1999-03-10

This tutorial volume is based on a summer school on cryptology and data security held in Aarhus, Denmark, in July 1998. The ten revised lectures presented are devoted to core topics in modern cryptology. In accordance with the educational objectives of the school, elementary introductions are provided to central topics, various examples are given of the problems encountered, and this is supplemented with solutions, open problems, and reference to further

reading. The resulting book is ideally suited as an up-to-date introductory text for students and IT professionals interested in modern cryptology.

An Introduction to Ontology Engineering - C. Maria Keet 2018-11-07

An Introduction to Ontology Engineering introduces the student to a comprehensive overview of ontology engineering, and offers hands-on experience that illustrate the theory. The topics covered include: logic foundations for ontologies with languages and automated reasoning, developing good ontologies with methods and methodologies, the top-down approach with foundational ontologies, and the bottomup approach to extract content from legacy material, and a selection of advanced topics that includes Ontology-Based Data Access, the interaction between ontologies and natural languages, and advanced modelling with fuzzy and temporal ontologies. Each chapter contains review questions and exercises, and descriptions of two group assignments are provided as well. The textbook is aimed at advanced undergraduate/postgraduate level in computer science and could fit a semester course in ontology engineering or a 2-week intensive course. Domain experts and philosophers may find a subset of the chapters of interest, or work through the chapters in a different order. Maria Keet is an Associate Professor with the Department of Computer Science, University of Cape Town, South Africa. She received her PhD in Computer Science in 2008 at the KRDB Research Centre, Free University of Bozen-Bolzano, Italy. Her research focus is on knowledge engineering with ontologies and Ontology, and their interaction with natural language and conceptual data modelling, which has resulted in over 100 peer-reviewed publications. She has developed and taught multiple courses on ontology engineering and related courses at various universities since 2009.

Hactivism and Cyberwars - Tim Jordan 2004-03-01

As global society becomes more and more dependent, politically and economically, on the flow of information, the power of those who can disrupt and manipulate that flow also increases. In Hactivism and Cyberwars Tim Jordan and Paul Taylor provide a detailed history of hactivism's evolution from early hacking culture to its present day status as the radical face of online politics. They describe the ways in which hactivism has re-appropriated hacking techniques to create an innovative new form of political protest. A full explanation is given of the different strands of hactivism and the 'cyberwars' it has created, ranging from such avant garde groups as the Electronic Disturbance Theatre to more virtually focused groups labelled 'The Digitally Correct'. The full social and historical context of hactivism is portrayed to take into account its position in terms of new social movements, direct action and its contribution to the globalization debate. This book provides an important corrective flip-side to mainstream accounts of E-commerce and broadens the conceptualization of the internet to take into full account the other side of the digital divide.

Green IT Strategies and Applications - Bhuvan Unhelkar 2016-04-19

Bhuvan Unhelkar takes you on an all-encompassing voyage of environmental sustainability and Green IT. Sharing invaluable insights gained during two battle-tested decades in the information and communication technologies industry, he provides a comprehensive examination of the wide-ranging aspects of Green IT-from switching-off monitors, virtualizin

Data Compression - David Salomon 2006-05-09

A comprehensive reference for the many different types and methods of compression, including a detailed and helpful taxonomy, an analysis of the most common methods, and discussions on their use and comparative benefits. The presentation is organized into the main branches of the field: run length encoding, statistical methods, dictionary-based methods, image compression, audio compression, and video compression. Detailed descriptions and

explanations of the most well-known and frequently used methods are covered in a self-contained fashion, with an accessible style and technical level for specialists and nonspecialists. In short, the book provides an invaluable reference and guide for all computer scientists, computer engineers, electrical engineers, signal/image processing engineers and other scientists needing a comprehensive compilation for a broad range of compression methods.

Privatsphäre 4.0 - Hauke Behrendt 2019-10-22

Wie lässt sich der Bereich des Privaten heute genau beschreiben? Welchen Wert besitzt Privatheit in digitalisierten Gesellschaften für den Einzelnen und die Gesellschaft als Ganzes? Welche Werte und Lebensformen werden durch Privatheit geschützt, welche eingeschränkt? Entstehen durch die Informationsasymmetrie zwischen Technologieunternehmen, staatlichen Verdatungsinstitutionen und Verbrauchern/Bürgern möglicherweise neue Machtstrukturen? Welche rechtlichen Implikationen ergeben sich hieraus? Dieser Band geht diesen und anderen Fragen, die sich im Hinblick auf die etablierte Gleichung von Freiheit und Privatheit stellen, nach und versucht Antworten zu finden.

An Introduction to Enterprise Architecture - Scott A. Bernard 2012-08-13

An Introduction to Enterprise Architecture is the culmination of several decades of experience that I have gained through work initially as an information technology manager and then as a consultant to executives in the public and private sectors. I wrote this book for three major reasons: (1) to help move business and technology planning from a systems and process-level view to a more strategy-driven enterprise-level view, (2) to promote and explain the emerging profession of EA, and (3) to provide the first textbook on the subject of EA, which is suitable for graduate and undergraduate levels of study. To date, other books on EA have been practitioner books not specifically oriented toward a student who may be learning the subject with little to no previous exposure. Therefore, this book contains references to related academic research and industry best practices, as well as my own observations about potential future practices and the direction of this emerging profession.

JavaScript Security - Y.E Liang 2014-11-22

This book is for JavaScript developers having basic web development knowledge and also for those who want to explore the security issues that arise from the use of JavaScript. Prior knowledge of how JavaScript is used, such as for DOM manipulation or to perform Ajax operations, is assumed.

What is Dart? - Kathy Walrath 2012-03-07

This short, free ebook from March 2012 describes the Dart language, libraries, and tools that help you develop structured, fast, and maintainable web apps that run in any modern browser.

Das Ende der Informationskontrolle - Thilo Hagendorff 2017-02-28

Nutzerinnen und Nutzer digitaler Medien haben immer weniger Möglichkeiten der Daten- und Informationskontrolle. Hacker, IT-Unternehmen, Geheimdienste, Datenbroker, Technikentwickler etc., aber auch das aufkommende Internet der Dinge, Big Data oder intransparente Algorithmen treiben den Kontrollverlust voran. Vormalig voneinander separierte Informationskontexte - Intimes, Privates, Öffentliches, Institutionelles etc. - gehen allmählich ineinander über. Hier setzt Thilo Hagendorff an: Er stellt innovative Mediennutzungsstrategien vor, die den Kontrollverlust erwarten oder sogar vielmehr fest mit ihm rechnen - und sich nicht auf verletzliche Privatheitsnormen oder unzuverlässige Datenschutztechnologien verlassen.

DAMA-DMBOK - Dama International 2017

Defining a set of guiding principles for data management and describing how these principles can be applied within data management functional areas; Providing a functional framework for the implementation of enterprise data management practices; including widely adopted practices, methods and

techniques, functions, roles, deliverables and metrics; Establishing a common vocabulary for data management concepts and serving as the basis for best practices for data management professionals. DAMA-DMBOK2 provides data management and IT professionals, executives, knowledge workers, educators, and researchers with a framework to manage their data and mature their information infrastructure, based on these principles: Data is an asset with unique properties; The value of data can be and should be expressed in economic terms; Managing data means managing the quality of data; It takes metadata to manage data; It takes planning to manage data; Data management is cross-functional and requires a range of skills and expertise; Data management requires an enterprise perspective; Data management must account for a range of perspectives; Data management is data lifecycle management; Different types of data have different lifecycle requirements; Managing data includes managing risks associated with data; Data management requirements must drive information technology decisions; Effective data management requires leadership commitment. *Sapient Circuits and Digitalized Flesh* - Matthew E. Gladden 2018-03-14

This book develops new insights into the evolving nature of organizations by applying the methodologies of posthumanist thought to the fields of organizational theory and management. An emerging 'organizational posthumanism' is described that makes sense of the ways in which forces of technological posthumanization are reshaping the members, personnel structures, information systems, processes, physical and virtual spaces, and external environments available for use by organizations. Conceptual frameworks and analytic tools are formulated that diagnose the convergence in the capacities of human and artificial actors generated by new technologies relating to human augmentation, synthetic agency, and digital-physical ecosystems. As the first systematic study of these topics, this text will interest scholars and students of organizational management and management practitioners who grapple on a daily basis with the forces of technologization that are increasingly powerful drivers of organizational change.

Hard Power and Soft Power: The Utility of Military Force as an Instrument of Policy in the 21st Century - Colin S. Gray 2011-07-09

Commentators distinguish between two kinds of power, 'hard' and 'soft.' The promise in this logic is obvious. Unfortunately, to date, the idea of soft power has not been subjected to a critical forensic examination. The ill consequences of America's difficulty in thinking and behaving strategically are augmented perilously when unwarranted faith is placed upon soft power that inherently resists to strategic direction. Although it is appropriate to be skeptical of the utility of soft power, this must not be interpreted as advice to threaten or resort to military force with scant reference to moral standards. Not only is it right in an absolute sense, it is also expedient to seek, seize, and hold the moral high ground. The more challenging contexts for national security will still require the mailed fist, even if it is cushioned, but not concealed, by a glove of political and ethical restraint. (Originally published by the Strategic Studies Institute)

Operating Systems and Middleware - Max Hailperin 2007

By using this innovative text, students will obtain an understanding of how contemporary operating systems and middleware work, and why they work that way.

Client-Server Web Apps with JavaScript and Java - Casimir Saternos 2014-03-28

As a Java programmer, how can you tackle the disruptive client-server approach to web development? With this comprehensive guide, you'll learn how today's client-side technologies and web APIs work with various Java tools. Author Casimir Saternos provides the big picture of client-server development, and then takes you through many practical client-server architectures. You'll work with hands-on projects in several chapters to get a feel for the topics

discussed. User habits, technologies, and development methods have drastically altered web app design in recent years. But the Web itself hasn't changed. This book shows you how to build apps that conform to the web's underlying architecture. Learn the advantages of using separate client and server tiers, including code organization and speedy prototyping Explore the major tools, frameworks, and starter projects used in JavaScript development Dive into web API design and REST style of software architecture Understand Java's alternatives to traditional packaging methods and application server deployment Build projects with lightweight servers, using jQuery with Jython, and Sinatra with Angular Create client-server web apps with traditional Java web application servers and libraries

Cyber-Physical Systems of Systems - Andrea Bondavalli 2016-12-16

This book is open access under a CC BY 4.0 license. Technical Systems-of-Systems (SoS) - in the form of networked, independent constituent computing systems temporarily collaborating to achieve a well-defined objective - form the backbone of most of today's infrastructure. The energy grid, most transportation systems, the global banking industry, the water-supply system, the military equipment, many embedded systems, and a great number more, strongly depend on systems-of-systems. The correct operation and continuous availability of these underlying systems-of-systems are fundamental for the functioning of our modern society. The 8 papers presented in this book document the main insights on Cyber-Physical System of Systems (CPSoSs) that were gained during the work in the FP7-610535 European Research Project AMADEOS (acronym for Architecture for Multi-criticality Agile Dependable Evolutionary Open System-of-Systems). It is the objective of this book to present, in a single consistent body, the foundational concepts and their relationships. These form a conceptual basis for the description and understanding of SoSs and go deeper in what we consider the characterizing and distinguishing elements of SoSs: time, emergence, evolution and dynamicity.

Cloud Computing and SOA Convergence in Your Enterprise - David S. Linthicum 2009-09-29

Massive, disruptive change is coming to IT as software as a service (SaaS), SOA, mashups, Web 2.0, and cloud computing truly come of age. Now, one of the world's leading IT innovators explains what it all means—coherently, thoroughly, and authoritatively. Writing for IT executives, architects, and developers alike, world-renowned expert David S. Linthicum explains why the days of managing IT organizations as private fortresses will rapidly disappear as IT inevitably becomes a global community. He demonstrates how to run IT when critical elements of customer, product, and business data and processes extend far beyond the firewall—and how to use all that information to deliver real-time answers about everything from an individual customer's credit to the location of a specific cargo container. *Cloud Computing and SOA Convergence in Your Enterprise* offers a clear-eyed assessment of the challenges associated with this new world—and offers a step-by-step program for getting there with maximum return on investment and minimum risk. Using multiple examples, Linthicum Reviews the powerful cost, value, and risk-related drivers behind the move to cloud computing—and explains why the shift will accelerate Explains the technical underpinnings, supporting technologies, and best-practice methods you'll need to make the transition Helps you objectively assess the promise of cloud computing and SOA for your organization, quantify value, and make the business case Walks you through evaluating your existing IT infrastructure and finding your most cost-effective, safest path to the "cloud" Shows how to choose the right candidate data, services, and processes for your cloud computing initiatives Guides you through building disruptive infrastructure and next-generation process platforms Helps you bring effective, high-value

governance to the clouds If you're ready to begin driving real competitive advantage from cloud computing, this book is the start-to-finish roadmap you need to make it happen.

The Art of Deception - Kevin D. Mitnick 2011-08-04

The world's most infamous hacker offers an insider's view of the low-tech threats to high-tech security Kevin Mitnick's exploits as a cyber-desperado and fugitive form one of the most exhaustive FBI manhunts in history and have spawned dozens of articles, books, films, and documentaries. Since his release from federal prison, in 1998, Mitnick has turned his life around and established himself as one of the most sought-after computer security experts worldwide. Now, in *The Art of Deception*, the world's most notorious hacker gives new meaning to the old adage, "It takes a thief to catch a thief." Focusing on the human factors involved with information security, Mitnick explains why all the firewalls and encryption protocols in the world will never be enough to stop a savvy grifter intent on rifling a corporate database or an irate employee determined to crash a system. With the help of many fascinating true stories of successful attacks on business and government, he illustrates just how susceptible even the most locked-down information systems are to a slick con artist impersonating an IRS agent. Narrating from the points of view of both the attacker and the victims, he explains why each attack was so successful and how it could have been prevented in an engaging and highly readable style reminiscent of a true-crime novel. And, perhaps most importantly, Mitnick offers advice for preventing these types of social engineering hacks through security protocols, training programs, and manuals that address the human element of security.

Sass and Compass for Designers - Ben Frain 2013-04-25

A step-by-step tutorial guide, taking you through how to build a responsive Sass and Compass powered website. If you understand HTML and CSS, this book is all you need to take your code to the next level with Sass and Compass. No prior understanding of CSS preprocessors or programming conventions is needed.