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Understanding change - shaping the future Wilhelm Bauer The dynamics of economic development and its dependence on global interactions are growing faster than ever before. This makes forecasting the future particularly difficult. Nevertheless, a look at long-term trends offers an opportunity to open the discussion about what reality might await us tomorrow and how we intend to deal with it. From the point of view of the member institutes of the Fraunhofer Group for Innovation Research, this paper presents a selection of trends that will have a significant impact on innovation systems in the period up to 2030. On this basis, theses for innovation in the year 2030 are derived providing the baseline for discussions on the requirements to ensure future competitiveness.

Optimization Charles E.M. Pearce 2009-06-29 The 21 self-contained chapters in this book, include recent developments in several optimization-related topics such as decision theory, linear programming, turnpike theory, duality theory, convex analysis, and queueing theory. This work will be a valuable tool not only to specialists interested in the technical detail and various applications presented, but also to researchers interested in building upon the book's theoretical results.

Our Choice Al Gore 2009 Al Gore has been a passionate advocate of action to halt climate change for many years. In his bestselling book An Inconvenient Truth, adapted from his acclaimed film, he wrote about the urgent need to address the problems of climate change, presenting comprehensive facts and information on all aspects of global warming in a direct, thoughtful and compelling way, using explanatory diagrams and dramatic photographs to clarify and highlight key issues. Adopting the same lucid technique inOur Choice, he proposes solutions at every level of our lives, from the personal and local, to the national and political, to the area of international policy and law. For this young adult edition, the text has been edited down with a 12-year-old-plus readership in mind, so sections aimed specifically at adults will be omitted in favour of clear text, appropriate photographs and easily understandable graphs. The overall aim is to gear the content towards the people who will, in fact, be dealing with global warming throughout their lives.

Artificial Intelligence George F. Luger 2011-11-21 This is the eBook of the printed book and may not

include any media, website access codes, or print supplements that may come packaged with the bound book. Artificial Intelligence: Structures and Strategies for Complex Problem Solving is ideal for a one- or two-semester undergraduate course on AI. In this accessible, comprehensive text, George Luger captures the essence of artificial intelligence–solving the complex problems that arise wherever computer technology is applied. Ideal for an undergraduate course in AI, the Sixth Edition presents the fundamental concepts of the discipline first then goes into detail with the practical information necessary to implement the algorithms and strategies discussed. Readers learn how to use a number of different software tools and techniques to address the many challenges faced by today's computer scientists.

Experience Design Marc Hassenzahl 2010 In his In the blink of an eye, Walter Murch, the Oscar-awarded editor of The English Patient, Apocalypse Now, and many other outstanding movies, devises the Rule of Six -- six criteria for what makes a good cut. On top of his list is "to be true to the emotion of the moment," a quality more important than advancing the story or being rhythmically interesting. The cut has to deliver a meaningful, compelling, and emotion-rich "experience" to the audience. Because, "what they finally remember is not the editing, not the camerawork, not the performances, not even the story---it's how they felt." Technology for all the right reasons applies this insight to the design of interactive products and technologies -- the domain of Human-Computer Interaction, Usability Engineering, and Interaction Design. It takes an experiential approach, putting experience before functionality and leaving behind oversimplified calls for ease, efficiency, and automation or shallow beautification. Instead, it explores what really matters to humans and what it needs to make technology more meaningful. The book clarifies what experience is, and highlights five crucial aspects and their implications for the design of interactive products. It provides reasons why we should bother with an experiential approach, and presents a detailed working model of experience useful for practitioners and academics alike. It closes with the particular challenges of an experiential approach for design. The book presents its view as a comprehensive, yet entertaining blend of scientific findings, design examples, and personal anecdotes. Table of Contents: Follow me! / Crucial Properties of Experience / Three Good Reasons to Consider Experience / A Model of Experience / Reflections on Experience Design

2019 International Conference on Computer Communication and Informatics (ICCCI) IEEE Staff 2019-01-23 The 2019 International Conference on Computer Communication and Informatics (ICCCI 2019) aims to provide an outstanding opportunity for both academic and industrial communities alike to address new trends, challenges and emerging technologies on topics relevant to today s fast moving areas of Computer, Communication and Informatics The conference will feature invited talks and referred paper presentations The vision of ICCCI 2019 is to develop foster communication among researchers and practitioners with a common interest but working in a wide variety of areas in communication and informatics

Life 3.0 Max Tegmark 2017-08-29 New York Times Best Seller How will Artificial Intelligence affect crime, war, justice, jobs, society and our very sense of being human? The rise of AI has the potential to transform our future more than any other technology—and there's nobody better qualified or situated to explore that future than Max Tegmark, an MIT professor who's helped mainstream research on how to keep AI beneficial. How can we grow our prosperity through automation without leaving people lacking income or purpose? What career advice should we give today's kids? How can we make future AI systems more robust, so that they do what we want without crashing, malfunctioning or getting hacked? Should we fear an arms race in lethal autonomous weapons? Will machines eventually outsmart us at all tasks, replacing humans on the job market and perhaps altogether? Will AI help life flourish like never before or give us more power than we can handle? What sort of future do you want? This book empowers you to join what may be the most important conversation of our time. It doesn't shy away from the full range of

viewpoints or from the most controversial issues—from superintelligence to meaning, consciousness and the ultimate physical limits on life in the cosmos.

Adaptive and Natural Computing Algorithms Marco Tomassini 2013-04-12 The book constitutes the refereed proceedings of the 11th International Conference on Adaptive and Natural Computing Algorithms, ICANNGA 2013, held in Lausanne, Switzerland, in April 2013. The 51 revised full papers presented were carefully reviewed and selected from a total of 91 submissions. The papers are organized in topical sections on neural networks, evolutionary computation, soft computing, bioinformatics and computational biology, advanced computing, and applications.

Ai Daniel Crevier 1993-05-18 Traces the successes and failures of the group of scientists who began research on artificial intelligence, and offers ideas on what future research will achieve

KPI Mega Library Rachad Baroudi, Ph.d. 2016-10-28 The purpose of this guide book is to give the reader a quick and effective access to the most appropriate Key Performance Indicator (KPI). The 36,000 KPIs are categorized in a logical and alphabetical order. Many organizations are spending a lot of funds on building their strategic planning and performance management capabilities. One of the current challenges is the difficulty to know what KPIs are used in similar situations. This book main objective is to acquaint the reader with available KPIs measuring performance of a specific industry, sector, international topic, and functional area. The book is divided into three sections:1) Organization Section: 32 Industries | 385 Functions | 11,000 KPIs2) Government Section: 32 Sectors | 457 Functions | 12,000 KPIs3) International Section: 24 Topics | 39 Sources | 13,000 KPIsREVIEWS: "It's very interesting book. Let me also use this opportunity to congratulate you on it" Augustine Botwe, M&E Consultant - Sweden "Thank you for this book. As an OD and performance consultant, it will be great to have a reference like this to help assist clients and not reinvent the wheel. Congratulations on making this happen with admiration" Sheri Chaney Jones - Ohio, USA"Fabulous book! I bought it for my company. Good work!" Elizabeth Amini, CEO, Strategist - LA, USA"Congratulations for this tremendous work you have done with this book!" Roxana Goldstein, Monitoring Consultant - Argentina "This looks like a very important reference for me in my BSC consulting practice." Edy Chakra, Partner, ADDIMA Consulting - UK"Congratulations for your book, it is very comprehensive!" Rafael Lemaitre - Manager at Palladium Group - Spain"Many thanks for sharing this valuable information. I will use as reference in my work." Edi Indriyotomo - Senior IT Mgr. - Indonesia"I am reading my copy of your great book "KPI Mega Library" which I bought from Amazon. Thank you, great effort!" Basel A - Kuwait"It's a great idea, for folks who don't have a clue where to start. If you're a strategy consultant who shapes strategies for your clients, you need a tailored set of performance metrics" Shelley Somerville, Social Change Strategist - LA, USA"A very comprehensive list of KPIs across a number of functions, industries, etc. As an organizational consultant, I could use this resource as a jumping off point to discuss KPIs with a client based on their particular needs. This book could be a great tool to pick and choose the correct KPIs based on a number of criteria" Anthony Bussard - Dynamic, Innovative HR Effectiveness Consultant - Boston

The Art of Interconnected Thinking Frederic Vester 2012 "Structural unemployment, alarming changes in the environment, periodical signs of an imminent Stock Exchange crash, involvement in armed conflicts: we are faced with an increasingly complex world and the inadequacy of conventional ways of thinking is becoming progressively more evident. Although perfectly planned in itself, the consequences of any intervention to the intricate fabric can have fatal repercussions: feedbacks, time delays and delayed after-effects."--Back cover.

Identity-Based Brand Management Christoph Burmann 2017-04-24 This textbook provides a theoretically

based and comprehensive overview of the identity-based brand management. The focus is on the design of brand identity as the internal side of a brand and the resulting external brand image amongst buyers and other external audiences. The authors show that the concept of identity-based brand management has proven to be the most efficient management model to make brands a success. Numerous illustrative practicable examples demonstrate its applicability. The content - Foundation of identity-based brand management - The concept of identity-based brand management - Strategic brand management - Operational brand management - Identity-based brand controlling - Identity-based trademark protection - International identity-based brand management

Automotive Powertrains PEP (Professional Engineering Publishers) 1996-04-18 These seminar proceedings contain selected papers from the prestigious Autotech event. This highly regarded key meeting for engineers from the international automotive industry is organised by engineers for engineers. It brings together representatives from many of the industry's main innovating companies, creating a forum in which the technology that will be seen in vehicles of the future is considered and debated. A wide range of topics across the whole field of automotive technology are discussed. These include: Automotive Electronics, Manufacturing, Powertrain, Refinement, and Safety. A selection of papers dealing with Automotive Powertrains is presented in this volume. Topics covered include: Hybrid powertrains Engine developments Driveline developments Transmissions Emissions Mechanical developments This volume is one of a number published as a result of this important and influential event.

IQM-CMM: Information Quality Management Capability Maturity Model Sasa Baskarada 2010-04-03 Saša Baškarada presents a capability maturity model for information quality management process assessment and improvement. The author employed six exploratory case studies and a four round Delphi study to gain a better understanding of the research problem and to build the preliminary model, which he then applied in seven international case studies for further enhancement and external validation.

ARIS - Business Process Frameworks August-Wilhelm Scheer 2012-12-06 ARIS (Architecture of Integrated Information Systems) is a unique and internationally renowned method for optimizing business processes and implementing application systems. This book enhances the proven ARIS concept by describing product flows and explaining how to classify modern software concepts. The importance of the link between business process organization and strategic management is stressed. Bridging the gap between the different approaches in business theory and information technology, the ARIS concept provides a full-circle approach-from the organizational design of business processes to IT implementation. With an emphasis on SAP R/3, real-world examples of standard software solutions illustrate these business process frameworks.

eWork and eBusiness in Architecture, Engineering and Construction Alain Zarli 2008-09-03 Since 1994, the European Conference on Product and Process Modelling (www.ecppm.org) has been providing a review of research, development and industrial implementation of product and process model technology in construction. The 7th European Conference on Product and Process Modelling (ECPPM 2008) provided a unique discussion platform for topics of

Biological and Medical Sensor Technologies Krzysztof Iniewski 2017-12-19 Biological and Medical Sensor Technologies presents contributions from top experts who explore the development and implementation of sensors for various applications used in medicine and biology. Edited by a pioneer in the area of advanced semiconductor materials, the book is divided into two sections. The first part covers

sensors for biological applications. Topics include: Advanced sensing and communication in the biological world DNA-derivative architectures for long-wavelength bio-sensing Label-free silicon photonics Quartz crystal microbalance-based biosensors Lab-on-chip technologies for cell-sensing applications Enzyme biosensors Future directions for breath sensors Solid-state gas sensors for clinical diagnosis The second part of the book deals with sensors for medical applications. This section addresses: Bio-sensing and human behavior measurements Sweat rate wearable sensors Various aspects of medical imaging The future of medical imaging Spatial and spectral resolution aspects of semiconductor detectors in medical imaging CMOS SSPM detectors CdTe detectors and their applications to gamma-ray imaging Positron emission tomography (PET) Composed of contributions from some of the world's foremost experts in their respective fields, this book covers a wide range of subjects. It explores everything from sensors and communication systems found in nature to the latest advances in manmade sensors. The end result is a useful collection of stimulating insights into the many exciting applications of sensor technologies in everyday life.

Facetten der Digitalisierung Yvonne Thorhauer 2020-04-15 In diesem Buch thematisiert die Professorenschaft der accadis Hochschule die Auswirkungen der Digitalisierung auf ihre Fachbereiche: Notwendige Umbrüche der Wirtschaftsethik, Auswirkungen künstlicher Intelligenz auf Marketing und Produktentwicklung, Veränderungen in der Unternehmenskommunikation, digitale Innovationen in Sport- und Gesundheitsmanagement, intelligente Distribution mit Blockchain-Technologien sowie Tokens im Finanzmarkt.

Smart Bioenergy Daniela Thrän 2015-04-20 Biomass is a vital source of renewable energy, because it offers a wide range of established and potential methods for energy generation. It is also an important facet of the progression toward a sustainable energy future. The need for further development in the provision of bioenergy is underlined by challenges affecting the biomass resource base, including rising demand for biomass for food, feed, materials and fuel. This is underlined by significant concerns over factors relating to land, such as soil, nutrients and biodiversity. This book examines and analyzes Germany's decade-long initiative toward implementation of an active policy for the transition of the energy system to make greater use of renewable energy sources, which has resulted in a significant increase in the amount of biomass used for electricity, heat and transport fuel. The book begins with a review of market and resource base issues and moves on to analyze the technical options for a more integrated bioenergy use. The analysis spans the entire bioenergy provision chain including solid, liquid and gaseous biofuels. A case study offers a detailed model of the effects of smart biomass energy on the German energy system. The book closes with a view of the most promising fields and an appraisal of needed elements for a successful transition.

Price Management Hermann Simon 2018-12-11 In this book, the world's foremost experts on pricing integrate theoretical rigor and practical application to present a comprehensive resource that covers all areas of the field. This volume brings together quantitative and qualitative approaches and highlights the most current innovations in theory and practice. Going beyond the traditional constraints of "price theory" and "price policy," the authors coined the term "price management" to represent a holistic approach to pricing strategy and tactical implementation. They remind us that the Ancient Romans used one word, pretium, to mean both price and value. This is the fundamental philosophy that drives successful price management where producer and customer meet. Featuring dozens of examples and case studies drawn from their extensive research, consulting, and teaching around the world, Simon and Fassnacht cover all aspects of pricing following the price management process with its four phases: strategy, analysis, decision, and implementation. Thereby, the authors take into account the nuances across industry sectors, including consumer goods, industrial products, services, and trade/distribution. In

particular, they address the implications of technological advancements, such as the Internet and new measurement and sensor technologies that have led to a wealth of price management innovations, such as flat rates, freemium, pay-per-use, or pay-what-you-want. They also address the emergence of new price metrics, Big Data applications, two-sided price systems, negative prices, and the sharing economy, as well as emerging payment systems such as bitcoin. The result is a "bible" for leaders who recognize that price is not only a means to drive profit in the short term, but a tool to generate sustained growth in shareholder value over the longer term, and a primer for researchers, instructors, and students alike. Praise for Price Management "This book is truly state of the art and the most comprehensive work in price management." - Prof. Philip Kotler, Kellogg School of Management, Northwestern University "This very important book builds an outstanding bridge between science and practice." - Kasper Rorsted, CEO, Adidas "This book provides practical guidelines on value creation, communication and management, which is an imperative for businesses to survive in the coming era of uncertainty." - Dr. Chang-Gyu Hwang, Chairman and CEO, KT Corporation (Korea Telecom)

Tomorrow's Jobs Today Rafael Moscatel 2021-04-30 This collection of in-depth profiles featuring Smart City CIOs, Data Protection Officers, Blockchain CEO's, Informatics Doctors and other diverse, skilled professionals gives readers first-hand insight into what tomorrow's jobs look like today. The hands-on experiences, subject matter expertise and measured job advice shared within these pages demonstrate how identifying opportunities, setting the right cadence and building strong relationships are the essential ingredients to unlocking your future's potential. Tomorrow's Jobs Today is for the new graduate, the professional between jobs and the doting parents desperate to get their "brilliant" but lazy kid out of the basement. It's also for senior corporate leaders seeking an intimate understanding of the changes abounding in their organizations. It's for the manager who wants to inspire and encourage professional development. And it's for every knowledge worker out there who wants to leverage technology and information governance to reduce risk, generate revenue, and improve customer experiences.

Library 2.0 Michael E. Casey 2007 Provides information on ways to implement the Library 2.0 service model to reach new library users and facilitate more user-drive services and technology.

Knowledge Maturing Andreas Kaschig 2013-08-26 The agility of organizations has become the critical success factor for competitiveness in a world characterized by an accelerating rate of change. Agility requires that companies and their employees together and mutually dependently learn and develop their competencies efficiently in order to improve productivity of knowledge work. As a reaction to failures of organisation-driven approaches to technology-enhanced learning and the success of community-driven approaches in the spirit of Web 2.0, we have recently seen a paradigm shift in technology support for learning towards more participatory approaches in which learners are seen as active contributors. Within enterprises, this new perspective brings together traditionally separated disciplines like e-learning, knowledge management, and human resources development, but also requires a fundamental change of the culture of the respective enterprise towards an enterprise 2.0, which is characterized by enhanced collaboration and a cultural of employee participation. These developments are at the heart of how individuals and companies value and deal with knowledge. To make sense it and to productively shape the change process, we need a new conceptual framework that is both well-grounded on extensive research and pratically relevant and proven through application in numerous projects. The Knowledge Maturing perspective is a novel approach that helps understanding the fundamental change, the barriers and disruptions in knowledge development, but also shows opportunities and gives guidance to make use of them. This book summarizes the results of the European Research Project MATURE.

Polyglutamine Disorders Clévio Nóbrega 2018-02-09 This book provides a cutting-edge review of

polyglutamine disorders. It primarily focuses on two main aspects: (1) the mechanisms underlying the pathologies' development and progression, and (2) the therapeutic strategies that are currently being explored to stop or delay disease progression. Polyglutamine (polyQ) disorders are a group of inherited neurodegenerative diseases with a fatal outcome that are caused by an abnormal expansion of a coding trinucleotide repeat (CAG), which is then translated in an abnormal protein with an elongated glutamine tract (Q). To date, nine polyQ disorders have been identified and described: dentatorubral-pallidoluysian atrophy (DRPLA); Huntington's disease (HD); spinal–bulbar muscular atrophy (SBMA); and six spinocerebellar ataxias (SCA 1, 2, 3, 6, 7, and 17). The genetic basis of polyQ disorders is well established and described, and despite important advances that have opened up the possibility of generating genetic models of the disease, the mechanisms that cause neuronal degeneration are still largely unknown and there is currently no treatment available for these disorders. Further, it is believed that the different polyQ may share some mechanisms and pathways contributing to neurodegeneration and disease progression.

Grid Computing Fran Berman 2003-04-18 Grid computing is applying the resources of many computers in a network to a single problem at the same time Grid computing appears to be a promising trend for three reasons: (1) Its ability to make more cost-effective use of a given amount of computer resources, (2) As a way to solve problems that can't be approached without an enormous amount of computing power (3) Because it suggests that the resources of many computers can be cooperatively and perhaps synergistically harnessed and managed as a collaboration toward a common objective. A number of corporations, professional groups, university consortiums, and other groups have developed or are developing frameworks and software for managing grid computing projects. The European Community (EU) is sponsoring a project for a grid for high-energy physics, earth observation, and biology applications. In the United States, the National Technology Grid is prototyping a computational grid for infrastructure and an access grid for people. Sun Microsystems offers Grid Engine software. Described as a distributed resource management tool, Grid Engine allows engineers at companies like Sony and Synopsys to pool the computer cycles on up to 80 workstations at a time. * "the Grid" is a very hot topic generating broad interest from research and industry (e.g. IBM, Platform, Avaki, Entropia, Sun, HP) * Grid architecture enables very popular e-Science projects like the Genome project which demand global interaction and networking * In recent surveys over 50% of Chief Information Officers are expected to use Grid technology this year Grid Computing: * Features contributions from the major players in the field * Covers all aspects of grid technology from motivation to applications * Provides an extensive state-of-the-art guide in grid computing This is essential reading for researchers in Computing and Engineering, physicists, statisticians, engineers and mathematicians and IT policy makers.

Corporate Data Quality Boris Otto 2015

Digital Curation of Research Data Heike Neuroth 2013

Tom Clancy's Net Force Tom Clancy 2001 When a group of terrorists who call themselves "CyberNation," and consider themselves an independent virtual country, seize control of the net and bring down the world's computers, the Net Force springs into action.

FAO Yearbook. Fishery and Aquaculture Statistics 2017/FAO annuaire. Statistiques des pêches et de l'aquaculture 2017/FAO anuario. Estadísticas de pesca y acuicultura 2017 Food and Agriculture Organization of the United Nations 2019-07-25 The FAO Yearbook of fishery and aquaculture statistics is a compilation of statistical data on capture fisheries and aquaculture production, employment, commodities production and trade, apparent fish consumption and fishing fleets. It is

structured into a booklet (containing summary tables, notes on major trends, concepts, classifications and a map of FAO major fishing areas) and a USB card presenting the full yearbook package with the complete set of statistical tables. L'Annuaire des statistiques des pêches et de l'aquaculture de la FAO est une compilation de données statistiques sur les captures, la production de l'aquaculture, l'emploi, la production et le commerce des produits halieutiques, les bilans alimentaires et les flottes. L'Annuaire est composé d'un fascicule (contenant des tableaux résumés, des notes sur les tendances principales, une description des concepts et des classements, ainsi qu'une carte des principales zones de pêche de la FAO) et d'une clé USB incluant la collection complète des tableaux statistiques de l'Annuaire. El Anuario de estadísticas de pesca y acuicultura de la FAO es una compilación de datos estadísticos sobre las capturas, la producción de acuicultura, el empleo, la producción y el comercio de los productos pesqueros, las hojas de balance de alimentos y las flotas. El Anuario se compone de un cuadernillo (con cuadros resúmenes, notas sobre las tendencias principales, conceptos básicos y clasificaciones, así como un mapa de las principales zonas de pesca de la FAO) y de una tarjeta USB que incluye toda el conjunto completo de los cuadros estadísticos del Anuario.

Advances in Wrought Magnesium Alloys Colleen Bettles 2012-04-25 This important book summarises the wealth of recent research on our understanding of process-property relationships in wrought magnesium alloys and the way this understanding can be used to develop a new generation of alloys for high-performance applications. After an introductory overview of current developments in wrought magnesium alloys, part one reviews fundamental aspects of deformation behaviour. These chapters are the building blocks for the optimisation of processing steps covered in part two, which discusses casting, extrusion, rolling and forging technologies. The concluding chapters cover applications of wrought magnesium alloys in automotive and biomedical engineering. With its distinguished editors, and drawing on the work of leading experts in the field, Advances in wrought magnesium alloys is a standard reference for those researching, manufacturing and using these alloys. Summarises recent research on our understanding of process-property relationships in wrought magnesium alloys Discusses the way this understanding can be used to develop a new generation of alloys for high-performance applications Reviews casting, extrusion, rolling and forging technologies, fundamental aspects of deformation behaviour, and applications of wrought magnesium alloys in automotive and biomedical engineering

The Saxons in England John Mitchell Kemble 1876

Common Object Services Specification Object Management Group 1994

Service Business Development Thomas Fischer 2012-05-24 Over the last decade, capital goods manufacturers have added services to products as a way of responding to eroding margins and the loss of strategic differentiation. Based on over twelve years of research, this book provides a thorough overview of the strategies available for value creation through service business development.

Encyclopedia of Healthcare Information Systems Wickramasinghe, Nilmini 2008-06-30 Healthcare, a vital industry that touches most of us in our lives, faces major challenges in demographics, technology, and finance. Longer life expectancy and an aging population, technological advancements that keep people younger and healthier, and financial issues area constant strain on healthcare organizations' resources and management. Focusing on the organization's ability to improve access, quality, and value of care to the patient may present possible solutions to these challenges. The Encyclopedia of Healthcare Information Systems provides an extensive and rich compilation of international research, discussing the use, adoption, design, and diffusion of information communication technologies (ICTs) in healthcare, including the role of ICTs in the future of healthcare delivery; access, quality, and value of healthcare;

nature and evaluation of medical technologies; ethics and social implications; and medical information management.

Access-VBA Bernd Held 2011

The Grid Ian Foster 2004 "The Grid" is an emerging infrastructure that will fundamentally change the way people think about and use computing. The editors reveal the revolutionary impact of large-scale resource sharing and virtualization within science and industry, and the intimate relationships between organization and resource sharing structures.

Superintelligence Nick Bostrom 2014 The human brain has some capabilities that the brains of other animals lack. It is to these distinctive capabilities that our species owes its dominant position. Other animals have stronger muscles or sharper claws, but we have cleverer brains. If machine brains one day come to surpass human brains in general intelligence, then this new superintelligence could become very powerful. As the fate of the gorillas now depends more on us humans than on the gorillas themselves, so the fate of our species then would come to depend on the actions of the machine superintelligence. But we have one advantage: we get to make the first move. Will it be possible to construct a seed AI or otherwise to engineer initial conditions so as to make an intelligence explosion survivable? How could one achieve a controlled detonation? To get closer to an answer to this question, we must make our way through a fascinating landscape of topics and considerations. Read the book and learn about oracles, genies, singletons; about boxing methods, tripwires, and mind crime; about humanity's cosmic endowment and differential technological development; indirect normativity, instrumental convergence, whole brain emulation and technology couplings; Malthusian economics and dystopian evolution; artificial intelligence, and biological cognitive enhancement, and collective intelligence.

Facsimile Products United States. National Weather Service 1979

Joe Celko's Complete Guide to NoSQL Joe Celko 2013-10-07 Joe Celko's Complete Guide to NoSQL provides a complete overview of non-relational technologies so that you can become more nimble to meet the needs of your organization. As data continues to explode and grow more complex, SQL is becoming less useful for querying data and extracting meaning. In this new world of bigger and faster data, you will need to leverage non-relational technologies to get the most out of the information you have. Learn where, when, and why the benefits of NoSQL outweigh those of SQL with Joe Celko's Complete Guide to NoSQL. This book covers three areas that make today's new data different from the data of the past: velocity, volume and variety. When information is changing faster than you can collect and query it, it simply cannot be treated the same as static data. Celko will help you understand velocity, to equip you with the tools to drink from a fire hose. Old storage and access models do not work for big data. Celko will help you understand volume, as well as different ways to store and access data such as petabytes and exabytes. Not all data can fit into a relational model, including genetic data, semantic data, and data generated by social networks. Celko will help you understand variety, as well as the alternative storage, query, and management frameworks needed by certain kinds of data. Gain a complete understanding of the situations in which SQL has more drawbacks than benefits so that you can better determine when to utilize NoSQL technologies for maximum benefit Recognize the pros and cons of columnar, streaming, and graph databases Make the transition to NoSQL with the expert guidance of best-selling SQL expert Joe Celko

Business Intelligence Techniques Murugan Anandarajan 2012-11-02 Modern businesses generate huge volumes of accounting data on a daily basis. The recent advancements in information technology

have given organizations the ability to capture and store data in an efficient and effective manner. However, there is a widening gap between this data storage and usage of the data. Business intelligence techniques can help an organization obtain and process relevant accounting data quickly and cost efficiently. Such techniques include: query and reporting tools, online analytical processing (OLAP), statistical analysis, text mining, data mining, and visualization. Business Intelligence Techniques is a compilation of chapters written by experts in the various areas. While these chapters stand on their own, taken together they provide a comprehensive overview of how to exploit accounting data in the business environment.