10 Breakthrough Technologies 2017 Mit Technology Review

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Global Warming or God’s Warning Desmond Michael Coverley Ph.D. 2017-12-08 This book is needed today! This book is presenting the news media stories about the strange and unusual happenings that are taking place in the skies, on the land, in the waters, and with the weather. This book is needed today! People around the world are frightened and terrified. They are looking for answers and there are no real solutions for the catastrophes presented by the news media. This book is needed today! The scientific community is theorizing that global warming/ climate change is the reason for the unusual events; however, the Bible provides prophetic explanations regarding these events that are taking place and that will continue with greater ferocity. This book is needed today! This book offers opportunity for Believers to become fully grounded in the Word of God. Religious leaders may find this book to be a resource in preparing bible studies. This book increases awareness of events to come and hope for escaping the Old-World Order in preparation for the New World Order that the Bible promises. By reading this book, one will gain a clear understanding of how to make preparation for future events, and gain an understanding of the only hope for the future through the One who is the Way, the Truth and the Life.

Impact of Disruptive Technologies on the Sharing Economy Gaol, Ford Lumban 2021-06-25 Because it continually implements entrepreneurial creativity and innovative business models, the economic landscape is ever-changing in today’s globalized world. As consumers become more willing to accept new strategic trends, this has led to the emergence of disruptive technologies. Since this equipment has an insufficient amount of information and high risks, it is necessary to assess the potential of disruptive technologies in the commercial environment. Impact of Disruptive Technologies on the Sharing Economy provides emerging research exploring the theoretical and practical aspects of disruptive technologies and knowledge-based entrepreneurial efforts and applications within management, business, and economics. Featuring coverage on a broad range of topics such as consumer ethics, corporate governance, and insurance issues, this book is ideally designed for IT specialists, IT consultants, software developers, computer engineers, managers, executives, managing directors, students, professors, scientists, professionals, industry practitioners, academicians, and researchers seeking current research on the consequences of disruptive technologies.

AI Development and the ‘Fuzzy Logic' of Chinese Cyber Security and Data Laws Max Parasol 2021-12-16 Explains the rapid rise of China's innovation system and provides a roadmap for the prospects of China's AI development.

Data Driven Karen Levy 2022-12-06 A behind-the-scenes look at how digital surveillance is affecting the trucking way of life Long-haul truckers are the backbone of the American economy, transporting goods under grueling conditions and immense economic pressure. Truckers have long valued the day-to-day independence of their work, sharing a strong occupational identity rooted in a tradition of autonomy. Yet these workers increasingly find themselves under many watchful eyes. Data Driven examines how digital surveillance is upending life and work on the open road, and raises crucial questions about the role of data collection in broader systems of social control. Karen Levy takes readers inside a world few ever see, painting a bracing portrait of one of the last great American frontiers. Federal regulations now require truckers to buy and install digital monitors that capture data about their locations and behaviors. Intended to address the pervasive problem of trucker fatigue by regulating the number of hours driven each day, these devices support additional surveillance by trucking firms and other companies. Traveling from industry trade shows to law offices and truck-stop bars, Levy reveals how these invasive technologies are reconfiguring industry relationships and providing new tools for managerial and legal control—and how truckers are challenging and resisting them. Data Driven contributes to an emerging conversation about how technology affects our work, institutions, and personal lives, and helps to guide our thinking about how to protect public interests and safeguard human dignity in the digital age.

Handbook of Research on Foundations and Applications of Intelligent Business Analytics Sun, Zhaohao 2022-03-11 Intelligent business analytics is an emerging technology that has become a mainstream market adopted broadly across industries, organizations, and geographic regions. Intelligent business analytics is a current focus for research and development across academia and industries and must be examined and considered thoroughly so businesses can apply the technology appropriately. The Handbook of Research on Foundations and Applications of Intelligent Business Analytics examines the technologies and applications of intelligent business analytics and discusses the foundations of intelligent analytics such as intelligent mining, intelligent statistical modeling, and machine learning. Covering topics such as augmented analytics and artificial intelligence systems, this major reference work is ideal for scholars, engineers, professors, practitioners, researchers, industry professionals, academicians, and students.

Keeping Up with Emerging Technologies: Best Practices for Information Professionals Nicole Hennig 2017-06-21 The ever-increasing acceleration of technological change demands that today's information professionals and educators not only be constantly acquiring new knowledge and skills, but also that they cultivate the ability to make sound judgments on which technologies to embrace. If you are grappling with information overload and wondering how you can keep up, this guide is for you. • Helps information specialists create a strategy for keeping up with new technologies and for making informed judgments on which technologies to test and integrate into library services • Provides ideas for designing curriculum for an education technology specialist career track in library school • Gives those who are preparing to interview for a technology specialist position a reliable guide for professional growth • Identifies which types of resources are most helpful for keeping up with new technologies

Introduction to Health Care Management Sharon B. Buchbinder 2019-10-15 Introduction to Health Care Management, Fourth Edition is a concise, reader-friendly, introductory healthcare management text that covers a wide variety of healthcare settings, from hospitals to nursing homes and clinics. Filled with examples to engage the reader's imagination, the important issues in healthcare management, such as ethics, cost management, strategic planning and marketing, information technology, and human resources, are all thoroughly covered. Guidelines and rubrics along with numerous case studies make this text both student-friendly and teacher-friendly. It is the perfect resource for students of healthcare management, nursing, allied health, business administration, pharmacy, occupational therapy, public administration, and public health.

Erfolgsfaktor Sourcing Robindro Ullah 2017-05-10 Sourcing ist die Suche nach interessanten Kandidaten über die sozialen Plattformen. Moderne Personaler sind daher nicht nur Profis für Talentmanagement, sondern auch für Internetnutzung. Das Buch greift diesen Kulturwandel in der HR-Szene auf: Welche Persönlichkeiten braucht das Recruiting künftig? Wie müssen Prozesse aussehen, um sie gewinnbringend zu integrieren? Anhand von Praxisbeispielen zeigen die Autoren, wie die Suchstrategien hinter den Softwarediensten der Job-Plattformen zu durchdringen sind. Und worauf es bei der gezielten Kandidatenansprache ankommt. Mit einem Ausblick auf das Recruiting von morgen im Zeichen von Virtual Reality und Big Data.

Food Routes Robyn Metcalfe 2020-12-08 Finding opportunities for innovation on the path between farmer and table. Even if we think we know a lot about good and healthy food—even if we buy organic, believe in slow food, and read Eater—we probably don't know much about how food gets to the table. What happens between the farm and the kitchen? Why are all avocados from Mexico? Why does a restaurant in Maine order lamb from New Zealand? In Food Routes, Robyn Metcalfe explores an often-overlooked aspect of the global food system: how food moves from producer to consumer. She finds that the food supply chain is adapting to our increasingly complex demands for both personalization and convenience—but, she says, it won't be an easy ride. Networked, digital tools will improve the food system but will also challenge our relationship to food in anxiety-provoking ways. It might not be easy to transfer our affections from verdant fields of organic tomatoes to high-rise greenhouses tended by robots. And yet, argues Metcalfe—a cautious technology optimist—technological advances offer opportunities for innovations that can get better food to more people in an increasingly urbanized world. Metcalfe follows a slice of New York pizza and a club sandwich through the food supply chain; considers local foods, global foods, and food deserts; investigates the processing, packaging, and storage of food; explores the transportation networks that connect farm to plate; and explains how food can be tracked using sensors and the Internet of Things. Future food may be engineered, networked, and nearly independent of crops grown in fields. New technologies can make the food system more efficient—but at what cost to our traditionally close relationship with food?

The Reality Game Samuel Woolley 2020-01-07 Fake news posts and Twitter trolls were just the beginning. What will happen when misinformation moves from our social media feeds into our everyday lives? Online disinformation stormed our political process in 2016 and has only worsened since. Yet as Samuel Woolley shows in this urgent book, it may pale in comparison to what's to come: humanlike automated voice systems, machine learning, "deepfake" AI-edited videos and images, interactive memes, virtual reality, and more. These technologies have the power not just to manipulate our politics, but to make us doubt our eyes and ears and even feelings. Deeply researched and compellingly written, The Reality Game describes the profound impact these technologies will have on our lives. Each new invention built without regard for its consequences edges us further into this digital dystopia. Yet Woolley does not despair. Instead, he argues pointedly for a new culture of innovation, one built around accountability and especially transparency. With social media dragging us into a never-ending culture war, we must learn to stop fighting and instead prevent future manipulation. This book shows how we can use our new tools not to control people but to empower them.

Prediction Machines Ajay Agrawal 2018-04-17 "What does AI mean for your business? Read this book to find out." -- Hal Varian, Chief Economist, Google Artificial intelligence does the seemingly impossible, magically bringing machines to life--driving cars, trading stocks, and teaching children. But facing the sea change that AI will bring can be paralyzing. How should companies set strategies, governments design policies, and people plan their lives for a world so different from what we know? In the face of such uncertainty, many analysts either cower in fear or predict an impossibly sunny future. But in Prediction Machines, three eminent economists recast the rise of AI as a drop in the cost of prediction. With this single, masterful stroke, they lift the curtain on the AI-is-magic hype and show how basic tools from economics provide clarity about the AI revolution and a basis for action by CEOs, managers, policy makers, investors, and entrepreneurs. When AI is framed as cheap prediction, its extraordinary potential becomes clear: Prediction is at the heart of making decisions under uncertainty. Our businesses and personal lives are riddled with such decisions. Prediction tools increase productivity--operating machines, handling documents, communicating with customers. Uncertainty constrains strategy. Better prediction creates opportunities for new business structures and strategies to compete. Penetrating, fun, and always insightful and practical, Prediction Machines follows its inescapable logic to explain how to navigate the changes on the horizon. The impact of AI will be profound, but the economic framework for understanding it is surprisingly simple.

AI[illegible] [illegible]Ajay Agrawal[illegible] 2018-10-31 [illegible]AI[illegible]AI[illegible]AI [illegible] --Google[illegible]...... AI[illegible]AI[illegible]AI[illegible]AI[illegible] •[illegible]AI[illegible]AI[illegible] •AI[illegible]AI[illegible] •[illegible]AI[illegible]AI Canvas[illegible] 1.[illegible]AI[illegible] 2.[illegible]AI[illegible] 3.[illegible]AI[illegible] 4.[illegible]AI[illegible]AI[illegible] AI[illegible]AI [illegible]AI[illegible]AI[illegible]Google [illegible]AI [illegible] AI[illegible]AI[illegible]AI[illegible]AI[illegible]—[illegible]Lawrence H. Summers[illegible] AI[illegible]AI[illegible]AI[illegible]AI[illegible]AI[illegible]—[illegible]Erik Brynjolfsson[illegible]—[illegible]Kevin Kelly[illegible] AI [illegible]—[illegible]Hal Varian[illegible]Google [illegible]AI [illegible]—[illegible]Ruslan Salakhutdinov[illegible]AI [illegible]AI [illegible]AI [illegible]—[illegible]Shivon Zilis[illegible]OpenAI [illegible]Bloomberg Beta [illegible]AI [illegible]AI [illegible]AI [illegible]—[illegible]Vinod Khosla[illegible]AI [illegible]AI [illegible]—[illegible]Susan Athey[illegible]—[illegible]Dominic Barton[illegible]

Publications Combined - Over 100 Studies In Nanotechnology With Medical, Military And Industrial Applications 2008-2017 Over 7,300 total pages ... Just a sample of the contents: Title : Multifunctional Nanotechnology Research Descriptive Note : Technical Report,01 Jan 2015,31 Jan 2016 Title : Preparation of Solvent-Dispersible Graphene and its Application to Nanocomposites Descriptive Note : Technical Report Title : Improvements To Micro Contact Performance And Reliability Descriptive Note : Technical Report Title : Delivery of Nanotethered Therapies to Brain Metastases of Primary Breast Cancer Using a Cellular Trojan Horse Descriptive Note : Technical Report,15 Sep 2013,14 Sep 2016 Title : Nanotechnology-Based Detection of Novel microRNAs for Early Diagnosis of Prostate Cancer Descriptive Note : Technical Report,15 Jul 2016,14 Jul 2017 Title : A Federal Vision for Future Computing: A Nanotechnology-Inspired Grand Challenge Descriptive Note : Technical Report Title : Quantifying Nanoparticle Release from Nanotechnology: Scientific Operating Procedure Series: SOP C 3 Descriptive Note : Technical Report Title : Synthesis, Characterization And Modeling Of Functionally Graded Multifunctional Hybrid Composites For Extreme Environments Descriptive Note : Technical Report,15 Sep 2009,14 Mar 2015 Title : Equilibrium Structures and Absorption Spectra for SixOy Molecular Clusters using Density Functional Theory Descriptive Note : Technical Report Title : Nanotechnology for the Solid Waste Reduction of Military Food Packaging Descriptive Note : Technical Report,01 Apr 2008,01 Jan 2015 Title : Magneto-Electric Conversion of Optical Energy to Electricity Descriptive Note : Final performance rept. 1 Apr 2012-31 Mar 2015 Title : Surface Area Analysis Using the Brunauer-Emmett-Teller (BET) Method: Standard Operating Procedure Series: SOP-C Descriptive Note : Technical Report,30 Sep 2015,30 Sep 2016 Title : Stabilizing Protein Effects on the Pressure Sensitivity of Fluorescent Gold Nanoclusters Descriptive Note : Technical Report Title : Theory-Guided Innovation of Noncarbon Two-Dimensional Nanomaterials Descriptive Note : Technical Report,14 Feb 2012,14 Feb 2016 Title : Deterring Emergent Technologies Descriptive Note : Journal Article Title : The Human Domain and the Future of Army Warfare: Present as Prelude to 2050 Descriptive Note : Technical Report Title : Drone Swarms Descriptive Note : Technical Report,06 Jul 2016,25 May 2017 Title : OFFSETTING TOMORROW'S ADVERSARY IN A CONTESTED ENVIRONMENT: DEFENDING EXPEDITIONARY ADVANCE BASES IN 2025 AND BEYOND Descriptive Note : Technical Report Title : A Self Sustaining Solar-Bio-Nano Based Wastewater Treatment System for Forward Operating Bases Descriptive Note : Technical Report,01 Feb 2012,31 Aug 2017 Title : Radiation Hard and Self Healing Substrate Agnostic Nanocrystalline ZnO Thin Film Electronics Descriptive Note : Technical Report,26 Sep 2011,25 Sep 2015 Title : Modeling and Experiments with Carbon Nanotubes for Applications in High Performance Circuits Descriptive Note : Technical Report Title : Radiation Hard and Self Healing Substrate Agnostic Nanocrystalline ZnO Thin Film Electronics (Per5 E) Descriptive Note : Technical Report,01 Oct 2011,28 Jun 2017 Title : High Thermal Conductivity Carbon Nanomaterials for Improved Thermal Management in Armament Composites Descriptive Note : Technical Report Title : Emerging Science and Technology Trends: 2017-2047 Descriptive Note : Technical Report Title : Catalysts for Lightweight Solar Fuels Generation Descriptive Note : Technical Report,01 Feb 2013,31 Jan 2017 Title : Integrated Real-Time Control and Imaging System for Microbiorobotics and Nanobiostructures Descriptive Note : Technical Report,01 Aug 2013,31 Jul 2014

13th International Symposium on Process SystemsEngineering – PSE 2018, July 1-5 2018 Mario R. Eden 2018-07-19 Process Systems Engineering brings together the international community of researchers and engineers interested in computing-based methods in process engineering. This conference highlights the contributions of the PSE community towards the sustainability of modern society and is based on the 13th International Symposium on Process Systems Engineering PSE 2018 event held San Diego, CA, July 1-5 2018. The book contains contributions from academia and industry, establishing the core products of PSE, defining the new and changing scope of our results, and future challenges. Plenary and keynote lectures discuss real-world challenges (globalization, energy, environment and health) and contribute to discussions on the widening scope of PSE versus the consolidation of the core topics of PSE. Highlights how the Process Systems Engineering community contributes to the sustainability of modern society Establishes the core products of Process Systems Engineering Defines the future challenges of Process Systems Engineering

Emotional Design in Human-Robot Interaction Hande Ayanoğlu 2019-09-09 While social robots participation increases in everyday human life, their presence in diverse contexts and situations is expected. At the same point, users tend to become more demanding regarding their roles, abilities, behaviour and appearance. Thus, designers and developers are confronted with the need to design more sophisticated robots that can produce such a positive reaction from users so as to become well accepted in various cases of use. Like this, Human-Robot Interaction has become a developing area. Emotions are an important part in human life, since they mediate the interaction with other humans, entities and/or products. In recent years, there has been an increase in the importance of emotions applied to the design field, giving rise to the so-called Emotional Design area. In the case of Human-Robot Interaction, the emotional design can help to elicit (e.g., pleasurable) or prevent (e.g., unpleasant) emotional/affective reactions/responses. This book gives a practical introduction to emotional design in human-robot interaction and supports designers with knowledge and research tools to help them take design decisions based on a User-Centred Design approach. It should also be useful to people interested in design processes, even if not directly related to the design of social robots but, instead, to other technology-based artefacts. The text is meant as a reference source with practical guidelines and advice for design issues.

Driving Performance through Learning Andy Lancaster 2019-11-03 Learning and Development (L&D) professionals are uniquely placed in an organization to improve both individual employee performance as well as the overall performance of the business. To maximise the impact of learning, activities must be aligned with the goals of the organization and delivered in the flow of work so that performance improvement is continuous. The course can no longer be the default learning option and creative workplace solutions are now vital. Driving Performance through Learning shows L&D professionals how to identify business needs and leverage learning that drives performance improvement to enable an organization to achieve its objectives. Beginning with an exploration of the fast-changing organizational learning landscape Driving Performance through Learning covers everything from how to diagnose needs through performance consulting conversations, using data and metrics and tracking impact to designing agile solutions by leveraging technology, facilitating social collaboration and vibrant learning communities. There is also expert guidance on curating content, embedding coaching, valuing mistakes and adopting a more self-directed learning approach. This book also defines the key characteristics of the new learning organization and the emerging roles of the future-focussed L&D team and whether these new responsibilities should be developed in-house or outsourced. This is an essential handbook for all L&D professionals seeking to transform workplace learning and drive organizational performance.

Proliferation of Weapons- and Dual-Use Technologies Margaret E. Kosal 2021-07-26 This book explores and analyzes the rapid pace of technological evolution in diplomatic, information, military, and economic sectors, which has contributed to a dynamic international policy environment. Global political stability is greatly influenced by innovations originating from numerous sources, including university labs, the technology sector, and military research. Collectively, these innovations guide the movement of people, ideas, and technology that in turn affect the international balance of power. The objective of this volume is to develop new insights into how the proliferation of innovative ideas, low-cost weapons, and dual-use technologies impact the changing global security landscape. Innovative and dual-use technologies can be used for beneficial purposes or defensive purposes. Alternatively they may be appropriated or employed for nefarious purposes by hostile military powers and non-state actors alike. Such actions can threaten global security and stability. As the complexity of technological innovations continues to increase, existing control mechanisms such as international regulations and security arrangements may be insufficient to stem the tide of proliferation over time. As such, this works seeks to assess and present policy solutions to curtail the threat to global stability posed by the proliferation of weapons and dual-use technology.

The Truth About Your Future Ric Edelman 2017-03-28 The instant New York Times bestseller from legendary investment guru Ric Edelman, who presents a prescient personal finance guide on how technology and science will reshape the way we save, invest, and plan for the future. In The Truth About Your Future, award-winning financial advisor Ric Edelman reveals how technology and science are evolving at a blistering, almost incomprehensible pace—with profound implications for your personal finances. Ric radically upends traditional financial planning, showing that you need not just one financial plan, but three—one for now, one for later and one for much later. He explains: Why you’re likely to live much longer—and the impact on your financial future; how you must alter your plans to shift from the familiar linear lifeline (school-job-retirement-death) to the new cyclical lifeline; the importance of Career Planning—even if you’re in your fifties or sixties; how to invest in tech companies and how to generate income from your investments; why nursing homes are becoming obsolete—and with them, long-term care insurance policies, and what this means for you; how to protect your digital assets; and how you’ll spend your time—and money—in retirement, and why the future will be the happiest time of your life. The traditional paradigms of how we live, learn, and invest are shifting under our feet. Fortunately, Ric Edelman has seen the future, and in The Truth About Your Future he illustrates how smart investors can adapt and thrive in today’s changing marketplace. Newcomers and loyal Edelman followers alike will find value in his proven advice and trademark humor. This is a must-have guide for anyone serious about successfully adapting to the ever-evolving financial landscape.

Humanity's Last Stand Nicanor Perlas 2018-07-25 Although still in its earliest stages, artificial intelligence (AI) is radically transforming all aspects of society. With the immanent emergence of Artificial Super Intelligence (ASI) and the illusory temptations of ‘transhumanism’, mankind stands at a crossroads. In Humanity’s Last Stand, Nicanor Perlas makes an urgent plea. It is imperative, he says, that we take immediate steps to ensure that digitized technology is aligned to human values and priorities. Otherwise, ASI will kill the essence of our humanity. Further, if we do not master it now, ASI will transform mankind into its own image. Ultimately, it will destroy the human race. AI experts have not offered a single cogent solution to this existential threat. Rudolf Steiner, however, not only foresaw these developments, but gave clear alternatives. Steiner, the founder of a contemporary, scientific approach to spirituality, provided philosophical, ontological and social innovations to save humanity from the abyss. It is the task of the global anthroposophical movement to pioneer this civilization-saving work: to establish spiritual-scientific ideas in mainstream culture that would allow AI to emerge in a healthier societal context. Perlas gives an overview of the phenomenon of AI together with its related transhuman concepts of ‘perfecting humanity’, and outlines the critical internal and external responses required to meet them with consciousness. In particular, he addresses the movement connected to the work of Rudolf Steiner, indicating its all-important tasks: to cooperate with progressive individuals and movements, including scientists and civil society activists; to mobilize its ‘daughter’ movements for action; and, ultimately, to cooperate with the spiritual powers that have guided and served humanity since the dawn of time. This, says the author, is humanity’s last stand, and failure is not an option.

Artificial Intelligence Melanie Mitchell 2019-10-15 'If you think you understand AI and all of the related issues, you don't. By the time you finish this exceptionally lucid and riveting book you will breathe more easily and wisely' - Michael Gazzaniga A leading computer scientist brings human sense to the AI bubble No recent scientific enterprise has been so alluring, terrifying and filled with extravagant promise and frustrating setbacks as artificial intelligence. Writing with clarity and passion, leading AI researcher Melanie Mitchell offers a captivating account of modern-day artificial intelligence. Flavoured with personal stories and a twist of humour, Artificial Intelligence illuminates the workings of machines that mimic human learning, perception, language, creativity and common sense. Weaving together advances in AI with cognitive science and philosophy, Mitchell probes the extent to which today's 'smart' machines can actually think or understand, and whether AI even requires such elusive human qualities at all. Artificial Intelligence: A Guide for Thinking Humans provides readers with an accessible and clear-eyed view of the AI landscape, what the field has actually accomplished, how much further it has to go and what it means for all of our futures.

Accounting and Corporate Reporting Soner Gokten 2017-09-20 We have spent a great deal of time on the continued development of accounting and auditing standards, which are used as a primary component of corporate reporting, to reach today's financial reporting framework. However, is it possible to say that, currently, financial statements provide full and prompt disclosure? Or will they still be useful as a primary element with their current structures in corporate reporting? Undoubtedly, we are deeply concerned about these issues in recent times. This volume contains chapters to discuss the today's and tomorrow's accounting and corporate reporting phenomena in a comprehensive and multidimensional way. Therefore, this book is organized into six sections: "Achieving Sustainability through Corporate Reporting", "International Standardization", "Financial Reporting Quality", "Accounting Profession and Behavioral Aspects", "Public Sector Accounting and Reporting", and "Managerial Accounting".

The Big Data Opportunity in Our Driverless Future Evangelos Simoudis 2017-02-09 From Detroit to Germany, Japan, and Korea, within the incumbent automotive industry there is amplifying conversation about the magnitude, extent and timing of the disruption that will result from the introduction of autonomous and driverless vehicles. This disruption will in turn result from innovations in technology and business models and changing attitudes toward car ownership. Catalyzed by the development of Autonomous, Connected and Electrified (ACE) vehicles and Mobility Services, the emerging hybrid mobility model will blend car ownership with on-demand car access. Big data generated inside and outside ACE vehicles and the exploitation of that data by machine intelligence technologies are key ingredients in this next generation of mobility. Together they offer a unique and still overlooked value creation opportunity. The book presents a strategy for capitalizing on the opportunities presented in our driverless future through the combination of startup innovations with corporate innovation efforts.

The Sparse Fourier Transform Haitham Hassanieh 2018-02-27 The Fourier transform is one of the most fundamental tools for computing the frequency representation of signals. It plays a central role in signal processing, communications, audio and video compression, medical imaging, genomics, astronomy, as well as many other areas. Because of its widespread use, fast algorithms for computing the Fourier transform can benefit a large number of applications. The fastest algorithm for computing the Fourier transform is the Fast Fourier Transform (FFT), which runs in near-linear time making it an indispensable tool for many applications. However, today, the runtime of the FFT algorithm is no longer fast enough especially for big data problems where each dataset can be few terabytes. Hence, faster algorithms that run in sublinear time, i.e., do not even sample all the data points, have become necessary. This book addresses the above problem by developing the Sparse Fourier Transform algorithms and building practical systems that use these algorithms to solve key problems in six different applications: wireless networks; mobile systems; computer graphics; medical imaging; biochemistry; and digital circuits. This is a revised version of the thesis that won the 2016 ACM Doctoral Dissertation Award.

Drones and the Creative Industry Virginia Santamarina-Campos 2018-07-31 This open access, interdisciplinary book presents innovative strategies in the use of civil drones in the cultural and creative industry. Specially aimed at small and medium-sized enterprises (SMEs), the book offers valuable insights from the fields of marketing, engineering, arts and management. With contributions from experts representing varied interests throughout the creative industry, including academic researchers, software developers and engineers, it analyzes the needs of the creative industry when using civil drones both outdoors and indoors. The book also provides timely recommendations to the industry, as well as guidance for academics and policymakers.

The Assessment and Treatment of Addiction Itai Danovitch 2018-11-15 Get a quick, expert overview of all types of addiction – from substance use disorders to behavioral addictions and more. This practical resource presents a focused summary of today’s current knowledge on topics of interest to all health care professionals who work with those who suffer from this wide-ranging problem. It provides current, relevant information on emerging findings, best practices, and treatment challenges, covering a variety of assessment and treatment strategies and making it a one-stop resource for staying up to date in this critical area. Discusses precision health in addiction; the latest trend of electronic cigarettes; state-of-the-art treatments for opioid use disorder and cannabis use disorder; best practices for chronic pain; prevention among adolescents; the role of physicians in the prescription drug epidemic; and the role of integrative interventions in addiction treatment. Includes coverage of behavioral addictions such as internet, sex, and gambling; food addiction; PTSD and substance use disorders; preventing relapse; the neurobiology of addiction; and more. Consolidates today’s available information on this timely topic into one convenient resource.

Professional and Business Ethics Through Film Jadranka Skorin-Kapov 2018-08-10 This book considers ethical issues arising in professional and business settings and the role of individuals making decisions and coping with moral dilemmas. Readers can benefit from engagement in filmic narratives, as a simulated environment for developing a stance towards ethical challenges. The book starts by elaborating on critical thinking and on normative ethical theories, subsequently presenting the structure and cinematic elements of narrative film. These two avenues are tools for evaluating films and for discussions on various ethical problems in contemporary business, including: the corporate and banking financial machinations (greed, fraud, social responsibility); workplace ethical challenges (harassment, violence, inequity, inequality); professional and business ethical challenges (corruption, whistleblowing, outsourcing, downsizing, competition, and innovation); environmental and social issues; international business and human rights; and personal responsibility and identity challenges due to career pressures, loss of privacy and cyber harassment, and job structure changes in light of changing technology.

Artificial Intelligence and Security Xingming Sun 2020-09-12 The 3-volume set CCIS 1252 until CCIS 1254 constitutes the refereed proceedings of the 6th International Conference on Artificial Intelligence and Security, ICAIS 2020, which was held in Hohhot, China, in July 2020. The conference was formerly called “International Conference on Cloud Computing and Security” with the acronym ICCCS. The total of 178 full papers and 8 short papers presented in this 3-volume proceedings was carefully reviewed and selected from 1064 submissions. The papers were organized in topical sections as follows: Part I: artificial intelligence; Part II: artificial intelligence; Internet of things; information security; Part III: information security; big data and cloud computing; information processing.

Principles of Information Systems Ralph Stair 2020-08-18 Develop an understanding of the core principles of information systems (IS) and how these principles make a difference in today’s business environment with Stair/Reynolds' PRINCIPLES OF INFORMATION SYSTEMS, 14E. Completely reorganized for clarity and focus, this fresh new edition provides engaging new chapter opening cases and a new chapter on AI and automation. You explore the challenges and risks of cybercrime, hacking, internet of things, and artificial intelligence as you examine the latest IS research and learn from memorable examples. You can even maximize your employability as you learn how to use IS to increase profits and reduce costs in organizations while studying the latest developments in big data, business intelligence, cloud computing, e-commerce, enterprise systems, mobile computing, strategic planning, and systems development. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Sustainable Nanoscale Engineering Gyorgy Szekely 2019-09-18 Sustainable Nanoscale Engineering: From Materials Design to Chemical Processing presents the latest on the design of nanoscale materials and their applications in sustainable chemical production processes. The newest achievements of materials science, in particular nanomaterials, opened new opportunities for chemical engineers to design more efficient, safe, compact and environmentally benign processes. These materials include metal-organic frameworks, graphene, membranes, imprinted polymers, polymers of intrinsic microporosity, nanoparticles, and nanofilms, to name a few. Topics discussed include gas separation, CO2 sequestration, continuous processes, waste valorization, catalytic processes, bioengineering, pharmaceutical manufacturing, supercritical CO2 technology, sustainable energy, molecular imprinting, graphene, nature inspired chemical engineering, desalination, and more. Describes new, efficient and environmentally accepted processes for nanomaterials design Includes a large array of materials, such as metal-organic frameworks, graphene, imprinted polymers, and more Explores the contribution of these materials in the development of sustainable chemical processes

POLICY APPROACHES TO DIRECT DIGITAL FRONTIER TECHNOLOGIES TOWARDS INCLUSIVE AND SUSTAINABLE DEVELOPMENT ECONOMIC AND SOCIAL COMMISSION FOR ASIA AND THE PA. 2022

The Routledge Companion to Accounting Information Systems Martin Quinn 2017-12-22 Information technology has permeated all walks of life in the past two decades. Accounting is no exception. Be it financial accounting, management accounting, or audit, information technology and systems have simplified daily tasks and routine work, simplified reporting, and changed how accounting is done. The Routledge Companion to Accounting Information Systems provides a prestige reference work which offers students and researchers an introduction to current and emerging scholarship in the discipline. Contributions from an international cast of authors provides a balanced view of both the technical underpinnings and organisational consequences of accounting information systems. With a focus on the business consequences of technology, this unique reference book will be a vital resource for students and researchers involved in accounting and information management.

Ghost Road: Beyond the Driverless Car Anthony M. Townsend 2020-06-16 A penetrating look at near-future disruption as truly autonomous vehicles arrive. For decades we have dreamed of building an automobile that can

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drive itself. But as that dream of autonomy draws close, we are discovering that the driverless car is a red herring. When self-driving technology infects buses, bikes, delivery vans, and even buildings...a wild, woollier, future awaits. Technology will transform life behind the wheel into a high-def video game that makes our ride safer, smoother, and more efficient. Meanwhile, autonomous vehicles will turbocharge our appetite for the instant delivery of goods, making the future as much about moving things as it is about moving people. Giant corporations will link the automated machines that move us to the cloud, raising concerns about mobility monopolies and privatization of streets and sidewalks. The pace of our daily lives and the fabric of our cities and towns will change dramatically as automated vehicles reprogram the way we work, shop, and play. Ghost Road is both a beacon and a warning; it explains where we might be headed together in driverless vehicles, and the choices we must make as societies and individuals to shape that future.

Imagining Personal Data Vaike Fors 2020 This book is available as open access through the Bloomsbury Open Access programme and is available on www.bloomsburycollections.com. It is funded by The Swedish Foundation for Humanities and Social Sciences.0Digital self-tracking devices and data have become normal elements of everyday life. Imagining Personal Data examines the implications of the rise of body monitoring and digital self-tracking for how we inhabit, experience and imagine our everyday worlds and futures. Through a focus on how it feels to live in environments where data is emergent, present and characterized by a sense of uncertainty, the authors argue for a new interdisciplinary approach to understanding the implications of self-tracking, which attends to its past, present and possible future. Building on social science approaches, the book accounts for the concerns of scholars working in design, philosophy and human-computer interaction. It problematizes the body and senses in relation to data and tracking devices, presents an accessible analytical account of the sensory and affective experiences of self-tracking, and questions the status of big data. In doing so it proposes an agenda for future research and design that puts people at its centre

Sustainable Enterprise Value Creation Richard Samans

The Soil Fixers Harold B. Rudy 2018-09-24 Are they human, biological, extraterrestrial? The future of our food, our waterways, our climate, and our civilization depend upon soil. How we conserve, or repair damage to this essential re- source is one of the most important commitments of our generation! This author leads us on a 30-year journey of discovery working with those closest to the land as they tackle significant challenges of soil protection, restoration, and sustainability.

Hybrid Intelligent Systems Ana Maria Madureira 2019-03-20 This book highlights recent research on Hybrid Intelligent Systems and their various practical applications. It presents 56 selected papers from the 18th International Conference on Hybrid Intelligent Systems (HIS 2018), which was held at the Instituto Superior de Engenharia do Porto (ISEP), Porto, Portugal from December 13 to 15, 2018. A premier conference in the field of Artificial Intelligence, HIS 2018 brought together researchers, engineers and practitioners whose work involves intelligent systems and their applications in industry. Including contributions by authors from over 30 countries, the book offers a valuable reference guide for all researchers, students and practitioners in the fields of Computer Science and Engineering.

Smart Buildings Ron Bakker 2020-01-01 How is technology shaping our built environment and changing the practice of architecture? This book explores how buildings and spaces are designed, built, used, and better understood through technology. A practical guide to technical advances including Internet of Things (IoT), 3D printing, innovative materials and robotics, Smart Buildings also outlines the opportunities for architecture including improved communication, flexibility, wellbeing, productivity and data collection. Bringing together multidisciplinary contributions and case studies from across the globe, this book provides an inspiring practical guide on how technology can inspire new architectural ideas, improving quality, comfort, health and wellbeing in the built environment

Management of Emerging Public Health Issues and Risks Benoit Roig 2018-11-13 Management of Emerging Public Health Issues and Risks: Multidisciplinary Approaches to the Changing Environment addresses the threats facing the rapidly changing world and provides guidance on how to manage risks to population health. Unlike conventional and recognized risks (major, industrial, and natural), emerging risks are characterized by low or non-existent scientific knowledge, high levels of uncertainty, and different levels of acceptability by the relevant authorities and exposed populations. Emerging risk must be analyzed through multiple and crossed approaches identifying the phenomenon linked to the emergence of risk but also by combining scientific, policy and social data in order to provide more enlightened decision making. Management of Emerging Public Health Issues and Risks: Multidisciplinary Approaches to the Changing Environment provides examples of transdisciplinary approaches used to characterize, analyze, and manage emerging risks. This book will be useful for public health researchers, policy makers, and students as well as those working in emergency management, risk management, security, environmental health, nanomaterials, and food science. Presents emerging risks from the technological, environmental, health, and energy sectors, as well as their social impacts Contextualizes emerging risks as new threats, existing threats in new locations, and known issues, which are newly recognized as risks due to increased scientific knowledge Includes case studies from around the world to reinforce concepts

OECD Skills Outlook 2019 Thriving in a Digital World OECD 2019-05-09 Economies and societies are undergoing digital transformations that bring both opportunities and challenges and countries’ preparedness to seize the benefits of a digital world is largely dependent on the skills of their population.

Rebooting AI Gary Marcus 2019-09-10 Two leaders in the field offer a compelling analysis of the current state of the art and reveal the steps we must take to achieve a truly robust artificial intelligence. Despite the hype surrounding AI, creating an intelligence that rivals or exceeds human levels is far more complicated than we have been led to believe. Professors Gary Marcus and Ernest Davis have spent their careers at the forefront of AI research and have witnessed some of the greatest milestones in the field, but they argue that a computer beating a human in Jeopardy! does not signal that we are on the doorstep of fully autonomous cars or superintelligent machines. The achievements in the field thus far have occurred in closed systems with fixed sets of rules, and these approaches are too narrow to achieve genuine intelligence. The real world, in contrast, is wildly complex and open-ended. How can we bridge this gap? What will the consequences be when we do? Taking inspiration from the human mind, Marcus and Davis explain what we need to advance AI to the next level, and suggest that if we are wise along the way, we won't need to worry about a future of machine overlords. If we focus on endowing machines with common sense and deep understanding, rather than simply focusing on statistical analysis and gatherine ever larger collections of data, we will be able to create an AI we can trust—in our homes, our cars, and our doctors' offices. Rebooting AI provides a lucid, clear-eyed assessment of the current science and offers an inspiring vision of how a new generation of AI can make our lives better.

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