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Fetal-Maternal Monitoring in the Age of Artificial Intelligence and Computer-Aided Decision Support: A Multidisciplinary Perspective - Antoniya Georgieva 2022-10-14

Agile Auditing - Raven Catlin 2021-07-21
Master new, disruptive technologies in the field of auditing Agile Auditing: Fundamentals and Applications introduces readers to the applications and techniques unlocked by tested and proven agile project management principles. This book educates readers on an approach to auditing that emphasizes risk-based auditing, collaboration, and speedy delivery of meaningful assurance assessments while ensuring quality results and a focus on the areas that pose the greatest material risks to the business under audit. The discipline of auditing has been forever changed via the introduction of new technologies, including: Machine learning Virtual Conferencing Process automation Data analytics Hugely popular in software development, the agile approach is just making its way into the field of audit. This book provides concrete examples and practical solutions for auditors who seek to implement agile techniques and methods. Agile Auditing is perfect for educators, practitioners, and students in the auditing field who are looking for ways to introduce greater levels of efficiency and effectiveness to their discipline.

Automating the News - Nicholas Diakopoulos

2019-06-10

From hidden connections in big data to bots spreading fake news, journalism is increasingly computer-generated. Nicholas Diakopoulos explains the present and future of a world in which algorithms have changed how the news is created, disseminated, and received, and he shows why journalists—and their values—are at little risk of being replaced.

Organizational Auditing and Assurance in the Digital Age - Marques, Rui Pedro 2019-02-15
Auditing is constantly and quickly changing due to the continuous evolution of information and communication technologies. As the auditing process is forced to adapt to these changes, issues have arisen that lead to a decrease in the auditing effectiveness and efficiency, leading to a greater dissatisfaction among users. More research is needed to provide effective management and mitigation of the risk associated to organizational transactions and to assign a more reliable and accurate character to the execution of business transactions and processes. Organizational Auditing and Assurance in the Digital Age is an essential reference source that discusses challenges, identifies opportunities, and presents solutions in relation to issues in auditing, information systems auditing, and assurance services and provides best practices for ensuring accountability, accuracy, and transparency. Featuring research on topics such as forensic

auditing, financial services, and corporate governance, this book is ideally designed for internal and external auditors, assurance providers, managers, risk managers, academicians, professionals, and students.

Practical Applications of Expert Systems - Susan Lindsay 1988

Artificial Intelligence for Audit, Forensic Accounting, and Valuation - Al Naqvi 2020-07-24

Strategically integrate AI into your organization to compete in the tech era The rise of artificial intelligence is nothing short of a technological revolution. AI is poised to completely transform accounting and auditing professions, yet its current application within these areas is limited and fragmented. Existing AI implementations tend to solve very narrow business issues, rather than serving as a powerful tech framework for next-generation accounting. Artificial Intelligence for Audit, Forensic Accounting, and Valuation provides a strategic viewpoint on how AI can be comprehensively integrated within audit management, leading to better automated models, forensic accounting, and beyond. No other book on the market takes such a wide-ranging approach to using AI in audit and accounting. With this guide, you'll be able to build an innovative, automated accounting strategy, using artificial intelligence as the cornerstone and foundation. This is a must, because AI is quickly growing to be the single competitive factor for audit and accounting firms. With better AI comes better results. If you aren't integrating AI and automation in the strategic DNA of your business, you're at risk of being left behind. See how artificial intelligence can form the cornerstone of integrated, automated audit and accounting services Learn how to build AI into your organization to remain competitive in the era of automation Go beyond siloed AI implementations to modernize and deliver results across the organization Understand and overcome the governance and leadership challenges inherent in AI strategy Accounting and auditing firms need a comprehensive framework for intelligent, automation-centric modernization. Artificial Intelligence for Audit, Forensic Accounting, and Valuation delivers just that—a plan to evolve legacy firms by building firmwide AI capabilities.

The Work of the Future - David H. Autor
2022-06-21

Why the United States lags behind other industrialized countries in sharing the benefits of innovation with workers and how we can remedy the problem. The United States has too many low-quality, low-wage jobs. Every country has its share, but those in the United States are especially poorly paid and often without benefits. Meanwhile, overall productivity increases steadily and new technology has transformed large parts of the economy, enhancing the skills and paychecks of higher paid knowledge workers. What's wrong with this picture? Why have so many workers benefited so little from decades of growth? The Work of the Future shows that technology is neither the problem nor the solution. We can build better jobs if we create institutions that leverage technological innovation and also support workers through long cycles of technological transformation. Building on findings from the multiyear MIT Task Force on the Work of the Future, the book argues that we must foster institutional innovations that complement technological change. Skills programs that emphasize work-based and hybrid learning (in person and online), for example, empower workers to become and remain productive in a continuously evolving workplace. Industries fueled by new technology that augments workers can supply good jobs, and federal investment in R&D can help make these industries worker-friendly. We must act to ensure that the labor market of the future offers benefits, opportunity, and a measure of economic security to all.

Economic Renaissance In the Age of Artificial Intelligence - Apek Mulay 2018-12-06

Economic Renaissance in the Age of Artificial Intelligence explores a wide range of new approaches to the economic, social, legal, scientific, technological, financial, architectural, environmental, and humanistic challenges that humanity will face due to increased automation. Marshall Goldsmith wrote in his book, *What Got You Here, Won't Get You There*, that people rely on their past experience to address new challenges. The limitation with this approach is that these new challenges often arise from different contexts and may not be susceptible to traditional approaches. In the coming era of

artificial intelligence (AI), expanded use of robots, and increased trans-national commerce, humanity will face monumental challenges that will differ from those we have faced in the past, including how to avoid mass unemployment due to rapid growth of automation. In order to survive and thrive in this new era, we will have to think and act differently, so that new ideas can solve not only the problems of the present but also of the near and distant future. Economic Renaissance in the Age of Artificial Intelligence explores a wide range of new approaches to the economic, social, legal, scientific, technological, financial, architectural, environmental, and humanistic challenges that humanity will face due to increased automation. The new methods and approaches outlined by the various experts in this book will help inform and inspire humanity to create a more balanced world in which science, economics, and the environment can thrive for years to come.

Research Anthology on Cross-Industry Challenges of Industry 4.0 - Management Association, Information Resources 2021-02-05

As Industry 4.0 brings on a new bout of transformation and fundamental changes in various industries, the traditional manufacturing and production methods are falling to the wayside. Industrial processes must embrace modern technology and the most recent trends to keep up with the times. With “smart factories”; the automation of information and data; and the inclusion of IoT, AI technologies, robotics, and cloud computing comes new challenges to tackle. These changes are creating new threats in security, reliability, the regulations around legislation and standardization of technologies, malfunctioning devices or operational disruptions, and more. These effects span a variety of industries and need to be discussed. Research Anthology on Cross-Industry Challenges of Industry 4.0 explores the challenges that have risen as multidisciplinary industries adapt to the Fourth Industrial Revolution. With a shifting change in technology, operations, management, and business models, the impacts of Industry 4.0 and digital transformation will be long-lasting and will forever change the face of manufacturing and production. This book highlights a cross-industry view of these challenges, the impacts they have, potential solutions, and the

technological advances that have brought about these new issues. It is ideal for mechanical engineers, electrical engineers, manufacturers, supply chain managers, logistics specialists, investors, managers, policymakers, production scientists, researchers, academicians, and students looking for cross-industry research on the challenges associated with Industry 4.0.

Cyber Security Intelligence and Analytics - Zheng Xu 2020-03-10

This book presents the outcomes of the 2020 International Conference on Cyber Security Intelligence and Analytics (CSIA 2020), an international conference dedicated to promoting novel theoretical and applied research advances in the interdisciplinary field of cyber security, particularly focusing on threat intelligence, analytics, and countering cyber crime. The conference provides a forum for presenting and discussing innovative ideas, cutting-edge research findings, and novel techniques, methods and applications on all aspects of Cyber Security Intelligence and Analytics. The 2020 International Conference on Cyber Security Intelligence and Analytics (CSIA 2020) is held at Feb. 28-29, 2020, in Haikou, China, building on the previous successes in Wuhu, China (2019) is proud to be in the 2nd consecutive conference year.

The Essentials of Machine Learning in Finance and Accounting - Mohammad Zoynul Abedin 2021-06-20

This book introduces machine learning in finance and illustrates how we can use computational tools in numerical finance in real-world context. These computational techniques are particularly useful in financial risk management, corporate bankruptcy prediction, stock price prediction, and portfolio management. The book also offers practical and managerial implications of financial and managerial decision support systems and how these systems capture vast amount of financial data. Business risk and uncertainty are two of the toughest challenges in the financial industry. This book will be a useful guide to the use of machine learning in forecasting, modeling, trading, risk management, economics, credit risk, and portfolio management.

Artificial Intelligence - Harvard Business Review 2019

Companies that don't use AI to their advantage

will soon be left behind. Artificial intelligence and machine learning will drive a massive reshaping of the economy and society. What should you and your company be doing right now to ensure that your business is poised for success? These articles by AI experts and consultants will help you understand today's essential thinking on what AI is capable of now, how to adopt it in your organization, and how the technology is likely to evolve in the near future. Artificial Intelligence: The Insights You Need from Harvard Business Review will help you spearhead important conversations, get going on the right AI initiatives for your company, and capitalize on the opportunity of the machine intelligence revolution. Catch up on current topics and deepen your understanding of them with the Insights You Need series from Harvard Business Review. Featuring some of HBR's best and most recent thinking, Insights You Need titles are both a primer on today's most pressing issues and an extension of the conversation, with interesting research, interviews, case studies, and practical ideas to help you explore how a particular issue will impact your company and what it will mean for you and your business.

Understanding E-Government - Vincent Homburg 2008-08-28

Governments these days often boast about the efficiency of their electronic systems. Information communication technologies (ICTs) apparently allow public service to become cheaper, faster and more democratic. E-government has become another buzzword, the shining future of the public realm. Critics claim, however, that ICTs' potential for democratic renewal is hampered by ancient assumptions of how governments should function. But which viewpoint is nearer the truth? In this original and insightful volume, Vincent Homburg demonstrates how the use, form and impact of ICTs are, in fact, entwined within the socio-political, economic and institutional aspects already established by government and public administration. Evangelical or fatalistic perspectives are discredited to show the different realities in which ICTs play a role in our daily lives. Using case studies and vignettes from throughout Europe and the US, the book analyzes what these new technologies actually do, and how they are screened through varying layers of bureaucracy and convention. This is a timely

addition to our understanding of what is meant by e-government. It gets behind the political rhetoric. Understanding E-Government: Information Systems in Public Administration will be key reading for all students of public administration, political science, organization theory and information systems.

Railway Age - 1923

Cyber Republic - George Zarkadakis 2021-08-24

How to make liberal democracies more inclusive and the digital economy more equitable: a guide for the coming Fourth Industrial Revolution. Around the world, liberal democracies are in crisis. Citizens have lost faith in their government; right-wing nationalist movements frame the political debate. At the same time, economic inequality is increasing dramatically; digital technologies have created a new class of super-rich entrepreneurs. Automation threatens to transform the free economy into a zero-sum game in which capital wins and labor loses. But is this digital dystopia inevitable? In *Cyber Republic*, George Zarkadakis presents an alternative, outlining a plan for using technology to make liberal democracies more inclusive and the digital economy more equitable. *Cyber Republic* is no less than a guide for the coming Fourth Industrial Revolution. Zarkadakis, an expert on technology and management, explains how artificial intelligence, together with intelligent robotics, sophisticated sensors, communication networks, and big data, will fundamentally reshape the global economy; a new "intelligent machine age" will force us to adopt new forms of economic and political organization. He envisions a future liberal democracy in which intelligent machines facilitate citizen assemblies, helping to extend citizen rights, and blockchains and cryptoeconomics enable new forms of democratic governance and business collaboration. Moreover, the same technologies can be applied to scientific research and technological innovation. We need not fear automation, Zarkadakis argues; in a post-work future, intelligent machines can collaborate with humans to achieve the human goals of inclusivity and equality.

Robotics Age - 1984

From Industry 4.0 to Quality 4.0 - Timothy Adesanya Ibidapo

Integrated Science in Digital Age 2020 -

Tatiana Antipova 2020-05-26

This book presents the proceedings of the 2020 International Conference on Integrated Science in Digital Age, which was jointly supported by the Institute of Certified Specialists (Russia) and Springer, and was held on May 1–3, 2020. The conference provided an international forum for researchers and practitioners to present and discuss the latest innovations, trends, results, experiences and concerns in the various areas of integrated science in the digital age. The main goal of the conference was to efficiently disseminate original findings in the natural and social sciences, covering topics such as blockchain & cryptocurrency; computer law & security; digital accounting & auditing; digital business & finance; digital economics; digital education; digital engineering; machine learning; smart cities in the digital age; health policy & management; and information management.

How Humans Judge Machines - Cesar A. Hidalgo 2021-02-02

How people judge humans and machines differently, in scenarios involving natural disasters, labor displacement, policing, privacy, algorithmic bias, and more. How would you feel about losing your job to a machine? How about a tsunami alert system that fails? Would you react differently to acts of discrimination depending on whether they were carried out by a machine or by a human? What about public surveillance? How Humans Judge Machines compares people's reactions to actions performed by humans and machines. Using data collected in dozens of experiments, this book reveals the biases that permeate human-machine interactions. Are there conditions in which we judge machines unfairly? Is our judgment of machines affected by the moral dimensions of a scenario? Is our judgment of machine correlated with demographic factors such as education or gender? César Hidalgo and colleagues use hard science to take on these pressing technological questions. Using randomized experiments, they create revealing counterfactuals and build statistical models to explain how people judge artificial intelligence and whether they do it fairly. Through original

research, *How Humans Judge Machines* bring us one step closer to understanding the ethical consequences of AI.

Integrated Science in Digital Age - Tatiana Antipova 2019-06-17

This book gathers selected papers presented at the 2019 International Conference on Integrated Science in Digital Age (ICIS 2019), which was jointly supported by the Institute of Certified Specialists (ICS), Russia and Springer and held in Batumi, Georgia on May 10–12, 2019. The ICIS 2019 received roughly 50 contributions, by authors hailing from six countries. Following a peer-review process, the Scientific Committee – a multidisciplinary group of 110 experts from 38 countries around the globe – selected roughly 60% for publication. The main topics covered include: Artificial Intelligence Research; Digital Business & Finance; Educational Sciences; Health Management Informatics; Public Administration in the Digital Age; and Social Problem-solving.

American Railway Accounting - Association of American Railroads. Bureau of Railway Economics. Library 1925

A Fresh Look at Internal Audit Framework at the Age of Artificial Intelligence (AI). - HASSAN OMIDI FIROUZI 2020

With the rise of Artificial Intelligence (AI), industries embraced or are preparing to embrace its potentials. Financial industries, banking industry in particular, are unleashing and harnessing AI powers in various business lines and functional departments. However, similar to other initiatives, AI brings its own opportunities and challenges including various legal and compliance risks. Banks are required to understand this technology clearly and mitigate potential risks associated with the applications of these tools. Introducing sound and transparent measures to mitigate the potential risks entails new initiatives from various lines of defense within banks. In this paper, our focus is devoted to the third line of defense also known as Internal Audit (IA) function. As a current industry practice, effective challenges for different stages of an AI model from data access, collection and compliance, model development and validation, to the deployment and integration of the model within the established IT systems are performed by different teams within Internal Audit function.

These teams do not necessarily look at the end-to-end process in a joint effort but rather perform in solos. This approach has successfully been running until today, however, with AI in place this approach will not be as effective and efficient as used to be. The main rationale underlying this statement is that with AI tools one cannot effectively challenge the data part of the model (or the IT deployment) without knowing sufficient information about the model. In this paper, we introduce a unified model-centric framework for Internal Audit function to enable the third line of defense to perform effective challenge for AI tools and technology in a smooth and unified way. In this approach, model team is responsible (not only for the model audit part), in collaboration with other teams, for the end-to-end audit process of AI tools.

Cyber Defence in the Age of AI, Smart Societies and Augmented Humanity - Hamid Jahankhani 2020-04-06

This publication highlights the fast-moving technological advancement and infiltration of Artificial Intelligence into society. Concepts of evolution of society through interconnectivity are explored, together with how the fusion of human and technological interaction leading to Augmented Humanity is fast becoming more than just an endemic phase, but a cultural phase shift to digital societies. It aims to balance both the positive progressive outlooks such developments bring with potential issues that may stem from innovation of this kind, such as the invasive procedures of bio hacking or ethical connotations concerning the usage of digital twins. This publication will also give the reader a good level of understanding on fundamental cyber defence principles, interactions with Critical National Infrastructure (CNI) and the Command, Control, Communications and Intelligence (C3I) decision-making framework. A detailed view of the cyber-attack landscape will be garnered; touching on the tactics, techniques and procedures used, red and blue teaming initiatives, cyber resilience and the protection of larger scale systems. The integration of AI, smart societies, the human-centric approach and Augmented Humanity is discernible in the exponential growth, collection and use of [big] data; concepts woven throughout the diversity of topics covered in this publication; which also

discusses the privacy and transparency of data ownership, and the potential dangers of exploitation through social media. As humans are become ever more interconnected, with the prolificacy of smart wearable devices and wearable body area networks, the availability of and abundance of user data and metadata derived from individuals has grown exponentially. The notion of data ownership, privacy and situational awareness are now at the forefront in this new age.

Engineering Assets and Public Infrastructures in the Age of Digitalization - Jayantha P. Liyanage 2020-08-17

This proceedings of the 13th World Congress on Engineering Asset Management covers a range of topics that are timely, relevant and practically important in the modern digital era towards safer, cost effective, efficient, and secure engineered assets such as production and manufacturing plants, process facilities, civil structures, equipment, machinery, and infrastructure. It has compiled some pioneering work by domain experts of the global Engineering Asset Management community representing both public and private sectors. The professional coverage of the book includes: Asset management in Industry 4.0; Standards and models; Sustainable assets and processes; Life cycle perspectives; Smart and safer assets; Applied data science; Workplace safety; Asset health; Advances in equipment condition monitoring; Critical asset processes; and Innovation strategy and entrepreneurship. The breadth and depth of these state-of-the-art, comprehensive proceedings make them an excellent resource for asset management practitioners, researchers and academics, as well as undergraduate and postgraduate students.

Artificial Intelligence in Finance - Nydia Remolina 2023-01-20

This book provides a comprehensive analysis of the primary challenges, opportunities and regulatory developments associated with the use of artificial intelligence (AI) in the financial sector. It will show that, while AI has the potential to promote a more inclusive and competitive financial system, the increasing use of AI may bring certain risks and regulatory challenges that need to be addressed by regulators and policymakers.

Artificial Intelligence for Asset Management and Investment - Al Naqvi 2021-01-13

Make AI technology the backbone of your organization to compete in the Fintech era The rise of artificial intelligence is nothing short of a technological revolution. AI is poised to completely transform asset management and investment banking, yet its current application within the financial sector is limited and fragmented. Existing AI implementations tend to solve very narrow business issues, rather than serving as a powerful tech framework for next-generation finance. Artificial Intelligence for Asset Management and Investment provides a strategic viewpoint on how AI can be comprehensively integrated within investment finance, leading to evolved performance in compliance, management, customer service, and beyond. No other book on the market takes such a wide-ranging approach to using AI in asset management. With this guide, you'll be able to build an asset management firm from the ground up—or revolutionize your existing firm—using artificial intelligence as the cornerstone and foundation. This is a must, because AI is quickly growing to be the single competitive factor for financial firms. With better AI comes better results. If you aren't integrating AI in the strategic DNA of your firm, you're at risk of being left behind. See how artificial intelligence can form the cornerstone of an integrated, strategic asset management framework Learn how to build AI into your organization to remain competitive in the world of Fintech Go beyond siloed AI implementations to reap even greater benefits Understand and overcome the governance and leadership challenges inherent in AI strategy Until now, it has been prohibitively difficult to map the high-tech world of AI onto complex and ever-changing financial markets. Artificial Intelligence for Asset Management and Investment makes this difficulty a thing of the past, providing you with a professional and accessible framework for setting up and running artificial intelligence in your financial operations.

Rise of The AiCOUNTANTS™ - Hitendra R. Patil 2023-02-06

Rise of The AiCOUNTANTS™: Accountants Augmented by Artificial Intelligence The What, Why, and How of Artificial Intelligence for Accountants This book is intended to be the go-to

guide for any accountant looking to stay ahead in the rapidly changing world of Artificial Intelligence (AI) technology - from an accountant's point of view. This essential guidebook aims to provide accountants with a solid understanding of Artificial Intelligence (AI), including its implications for the accounting profession. The book contains: Nearly 100 examples specific to how AI works/can work in the accounting profession Actionable intelligence through practically implementable checklists Templates of suggested emails for interacting with clients when you deliver AI-powered services 30+ analogies to help easy understanding of the content And much more..... What you'll learn from this "easy read" book: How AI technology works, including machine learning and natural language processing How AI can be applied to accounting tasks such as financial analysis, fraud detection, and more The pros and cons of implementing AI in accounting - the potential for increased efficiency and accuracy, as well as the potential ethical and legal considerations. The potential future impact of AI on the accounting profession How AI may change how accountants work, and The future skills accountants will need to succeed And much more..... "AiCOUNTANTS™: Accountants Augmented by Artificial Intelligence" is a must-read for any accountant looking to stay competitive and relevant in the AI age. It provides a thorough understanding of AI technology, its potential in the accounting profession, and practical advice on leveraging it to improve your practice. DON'T WAIT FOR THE AI-FUTURE TO ARRIVE. TAKE CONTROL. BUY NOW.

Data Protection and Privacy - Ronald Leenes 2017-12-28

The subjects of Privacy and Data Protection are more relevant than ever with the European General Data Protection Regulation (GDPR) becoming enforceable in May 2018. This volume brings together papers that offer conceptual analyses, highlight issues, propose solutions, and discuss practices regarding privacy and data protection. It is one of the results of the tenth annual International Conference on Computers, Privacy and Data Protection, CPDP 2017, held in Brussels in January 2017. The book explores Directive 95/46/EU and the GDPR moving from a market framing to a 'treaty-base games frame',

the GDPR requirements regarding machine learning, the need for transparency in automated decision-making systems to warrant against wrong decisions and protect privacy, the risk-revolution in EU data protection law, data security challenges of Industry 4.0, (new) types of data introduced in the GDPR, privacy design implications of conversational agents, and reasonable expectations of data protection in Intelligent Orthoses. This interdisciplinary book was written while the implications of the General Data Protection Regulation 2016/679 were beginning to become clear. It discusses open issues, and daring and prospective approaches. It will serve as an insightful resource for readers with an interest in computers, privacy and data protection.

Management and Business Education in the Time of Artificial Intelligence - Agata Stachowicz-Stanusch 2020-05-01

Artificial intelligence (AI) technologies are one of top investment priorities in these days. They are aimed at finding applications in fields of special value for humans, including education. The fourth industrial revolution will replace not only human hands but also human brains, the time of machines requires new forms of work and new ways of business education, however we must be aware that if there is no control of human-AI interaction, there is a risk of losing sight of this interaction's goal. First, it is important to get people to truly understand AI systems, to intentionally participate in their use, as well as to build their trust, because "the measure of success for AI applications is the value they create for human lives" (Stanford University 2016, 33). Consequently, society needs to adapt to AI applications if it is to extend its benefits and mitigate the inevitable errors and failures. This is why it is highly recommended to create new AI-powered tools for education that are the result of cooperation between AI researchers and humanities' and social sciences' researchers, who can identify cognitive processes and human behaviors. This book is authored by a range of international experts with a diversity of backgrounds and perspectives hopefully bringing us closer to the responses for the questions what we should teach (what the 'right' set of future skills is), how we should teach (the way in which schools should teach and assess them) and

where we should teach (what implications does AI have for today's education infrastructure). We must remember as we have already noticed before "...education institutions would need to ensure that that they have an appropriate infrastructure, as well as the safety and credibility of AI-based systems. Ultimately, the law and policies need to adjust to the rapid pace of AI development, because the formal responsibility for appropriate learning outcomes will in future be divided between a teacher and a machine. Above all, we should ensure that AI respect human and civil rights (Stachowicz-Stanusch, Amann, 2018)".

Robot Rules - Jacob Turner 2018-10-29

This book explains why AI is unique, what legal and ethical problems it could cause, and how we can address them. It argues that AI is unlike any other previous technology, owing to its ability to take decisions independently and unpredictably. This gives rise to three issues: responsibility--who is liable if AI causes harm; rights--the disputed moral and pragmatic grounds for granting AI legal personality; and the ethics surrounding the decision-making of AI. The book suggests that in order to address these questions we need to develop new institutions and regulations on a cross-industry and international level.

Incorporating clear explanations of complex topics, *Robot Rules* will appeal to a multi-disciplinary audience, from those with an interest in law, politics and philosophy, to computer programming, engineering and neuroscience.

Your Boss Is an Algorithm - Antonio Aloisi 2022-07-14

What effect do robots, algorithms, and online platforms have on the world of work? Using case studies and examples from across the EU, the UK, and the US, this book provides a compass to navigate this technological transformation as well as the regulatory options available, and proposes a new map for the era of radical digital advancements. From platform work to the gig-economy and the impact of artificial intelligence, algorithmic management, and digital surveillance on workplaces, technology has overwhelming consequences for everyone's lives, reshaping the labour market and straining social institutions. Contrary to preliminary analyses forecasting the threat of human work obsolescence, the book demonstrates that digital tools are more likely to

replace managerial roles and intensify organisational processes in workplaces, rather than opening the way for mass job displacement. Can flexibility and protection be reconciled so that legal frameworks uphold innovation? How can we address the pervasive power of AI-enabled monitoring? How likely is it that the gig-economy model will emerge as a new organisational paradigm across sectors? And what can social partners and political players do to adopt effective regulation? Technology is never neutral. It can and must be governed, to ensure that progress favours the many. Digital transformation can be an essential ally, from the warehouse to the office, but it must be tested in terms of social and political sustainability, not only through the lenses of economic convenience. *Your Boss Is an Algorithm* offers a guide to explore these new scenarios, their promises, and perils.

The Future of the Professions - Richard Suskind 2022

With a new preface outlining the most recent critical developments, this updated edition of *The Future of the Professions* predicts how technology will transform the work of doctors, teachers, architects, lawyers, and many others in the 21st century, and introduces the people and systems that may replace them.

How to Compete in the Age of Artificial Intelligence - Soumendra Mohanty 2018-09-25

Get started with artificial intelligence in your business. This book will help you understand AI, its implications, and how to adopt a strategy that is rational, relevant, and practical. Beyond the buzzwords and the technology complexities, organizations are struggling to understand what AI means for their industry and how they can start their journey. *How to Compete in the Age of Artificial Intelligence* is not a book about complex formulas or solution architectures. It goes deeper into explaining the meaning and relevance of AI for your business. You will learn how to apply AI thinking across enterprise functions—including disruptive technologies such as IoT, Blockchain, and cloud—and transform your organization.

What You'll Learn Know how to spot AI opportunities and establish the right organizational imperatives to grow your business. Understand AI in the context of changing business dynamics and the workforce/skills

required to succeed. Discover how to apply AI thinking across enterprise functions—from the boardroom to cybersecurity, IoT, IT operations, policies—and implement a sustainable and integrated human-machine collaboration strategy. Who This Book is For CxOs, senior executives, mid-level managers, AI evangelists, digital leads, and technology directors

Artificial Intelligence in Accounting and Auditing: Knowledge representation, accounting applications and the future - Miklos A. Vasarhelyi 1989

A study of artificial intelligence in accounting and auditing, this handbook addresses knowledge representation, accounting applications and the future. Topics covered include: knowledge elicitation and representation; belief nets of Bayesian revisions; accounting applications; and more.

Machine Learning and Data Mining for Computer Security - Marcus A. Maloof 2006-02-28

"Machine Learning and Data Mining for Computer Security" provides an overview of the current state of research in machine learning and data mining as it applies to problems in computer security. This book has a strong focus on information processing and combines and extends results from computer security. The first part of the book surveys the data sources, the learning and mining methods, evaluation methodologies, and past work relevant for computer security. The second part of the book consists of articles written by the top researchers working in this area. These articles deal with topics of host-based intrusion detection through the analysis of audit trails, of command sequences and of system calls as well as network intrusion detection through the analysis of TCP packets and the detection of malicious executables. This book fills the great need for a book that collects and frames work on developing and applying methods from machine learning and data mining to problems in computer security.

Encyclopedia of Data Science and Machine Learning - Wang, John 2022-10-14

Big data and machine learning are driving the Fourth Industrial Revolution. With the age of big data upon us, we risk drowning in a flood of digital data. Big data has now become a critical

part of both the business world and daily life, as the synthesis and synergy of machine learning and big data has enormous potential. Big data and machine learning are projected to not only maximize citizen wealth, but also promote societal health. As big data continues to evolve and the demand for professionals in the field increases, access to the most current information about the concepts, issues, trends, and technologies in this interdisciplinary area is needed. The Encyclopedia of Data Science and Machine Learning examines current, state-of-the-art research in the areas of data science, machine learning, data mining, and more. It provides an international forum for experts within these fields to advance the knowledge and practice in all facets of big data and machine learning, emphasizing emerging theories, principals, models, processes, and applications to inspire and circulate innovative findings into research, business, and communities. Covering topics such as benefit management, recommendation system analysis, and global software development, this expansive reference provides a dynamic resource for data scientists, data analysts, computer scientists, technical managers, corporate executives, students and educators of higher education, government officials, researchers, and academicians.

Learning in the Age of Immediacy - Brandon Carson 2017-05-26

Welcome to the Age of Immediacy. We're in a new era of learning, one in which learners expect information to be available anywhere and anytime. How do you make sure your learning experiences keep up with the pace of workplace transformation? In *Learning in the Age of Immediacy: 5 Factors for How We Connect, Communicate, and Get Work Done*, learning strategist Brandon Carson argues that five edge technologies (augmented reality and virtual reality, the cloud, mobile, big data, and the Internet of Everything) are transforming the modern workplace, requiring new learning methods to empower the modern worker. Through real-world case studies and interviews with industry experts and business leaders, he shows how these technologies affect training's design, delivery, and evaluation. He also provides practical advice to integrate the five factors into your learning strategy, helping you answer

important questions along the way: What will the workforce you support look like in the next several years? How will you provide in-the-moment learning for the streaming economy the cloud has introduced? Do you have a mobile learning strategy? (You should). And how will you use the emerging practice of data science to provide evidence of training's value to the business? The stakes are high, and these factors could be the difference between achieving measurable results or driving your learners to seek solutions elsewhere. Use *Learning in the Age of Immediacy* to create a learning plan that will serve your workforce now and in the future!

[The Work of the Future](#) - David H. Autor
2022-01-25

Why the United States lags behind other industrialized countries in sharing the benefits of innovation with workers and how we can remedy the problem. The United States has too many low-quality, low-wage jobs. Every country has its share, but those in the United States are especially poorly paid and often without benefits. Meanwhile, overall productivity increases steadily and new technology has transformed large parts of the economy, enhancing the skills and paychecks of higher paid knowledge workers. What's wrong with this picture? Why have so many workers benefited so little from decades of growth? *The Work of the Future* shows that technology is neither the problem nor the solution. We can build better jobs if we create institutions that leverage technological innovation and also support workers through long cycles of technological transformation. Building on findings from the multiyear MIT Task Force on the Work of the Future, the book argues that we must foster institutional innovations that complement technological change. Skills programs that emphasize work-based and hybrid learning (in person and online), for example, empower workers to become and remain productive in a continuously evolving workplace. Industries fueled by new technology that augments workers can supply good jobs, and federal investment in R&D can help make these industries worker-friendly. We must act to ensure that the labor market of the future offers benefits, opportunity, and a measure of economic security to all.

The Age of Artificial Intelligence: An

Exploration - Steven S. Gouveia 2020-07-07
With worldwide spending estimates of over \$97 billion by 2023, it is no surprise that Artificial Intelligence (A.I.) is one of the hottest topics at present in both the private and public spheres. Comprising of vital contributions from the most influential researchers in the field, including Daniel Dennett, Roman V. Yampolskiy, Frederic Gilbert, Stevan Harnad, David Pearce, Natasha Vita-More, Vernon Vinge and Ben Goertzel, 'The Age of Artificial Intelligence: An Exploration' discusses a variety of topics ranging from the various ethical issues associated with A.I. based technologies in terms of morality and law to subjects related to artificial consciousness, artistic creativity and intelligence. The volume is organized as follows: Section I is dedicated to reflections on the Intelligence of A.I., with chapters by Soenke Ziesche and Roman V. Yampolskiy, Stevan Harnad, Daniel Dennett and David Pearce. Next, Section II discusses the relationship between consciousness, simulation and artificial intelligence, with chapters by Gabriel Axel Montes and Ben Goertzel, Cody Turner, Nicole Hall and Steven S. Gouveia. Section III, dedicated to aesthetical creativity and language in artificial intelligence, includes chapters by Caterina Moruzzi, René Mogensen, Mariana Chinellato Ferreira and Kulvinder Panesar. The subsequent Section IV is on the

Ethics of the Bionic Brain with the participation of Peter A. DePergola II, Tomislav Miletić and Frederic Gilbert, Aníbal M. Astobiza, Txetxu Ausin, Ricardo M. Ferrer and Stephen Rainey and Natasha Vita-More. Finally, Section V follows on the Ethics of Artificial Intelligence with chapters by Federico Pistono and Roman V. Yampolskiy, Hasse Hämäläinen, Vernon Vinge and Eray Özkural. The Age of Artificial Intelligence is imminent, if not here already. We should ensure that we invest in the right people and the right ideas to create the best possible solutions to the problems of the present and prepare for those of the future. This edited volume will be of particular interest to researchers in the field of A.I. as well of those in Cognitive Science (Philosophy of the Mind, Neuroscience, and Linguistics), Aesthetics and Arts, Applied Ethics and Political Philosophy / Law. Students studying the aforementioned topics can also benefit from its contents.

Artificial Intelligence in Accounting and Auditing - Miklos A. Vasarhelyi 1988

A study of artificial intelligence in accounting and auditing. Topics addressed include: expert systems for audit tasks; REA accounting database evolution; fuzzy logic - treating the uncertainty in expert systems; bankruptcy prediction via a recursive partitioning model; and more.