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EC4 - WHEELER KELLEY

Offers a clear view of the utility and place for survey data within the broader Big Data ecosystem This book presents a collection of snapshots from two sides of the Big Data perspective. It assembles an array of tangible tools, methods, and approaches that illustrate how Big Data sources and methods are being used in the survey and social sciences to improve official statistics and estimates for human populations. It also provides examples of how survey data are being used to evaluate and improve the quality of insights derived from Big Data. Big Data Meets Survey Science: A Collection of Innovative Methods shows how survey data and Big Data are used together for the benefit of one or more sources of data, with numerous chapters providing consistent illustrations and examples of survey data enriching the evaluation of Big Data sources. Examples of how machine learning, data mining, and other data science techniques are inserted into virtually every stage of the survey life-cycle are presented. Topics covered include: Total Error Frameworks for Found Data; Performance and Sensitivities of

Home Detection on Mobile Phone Data; Assessing Community Wellbeing Using Google Street View and Satellite Imagery; Using Surveys to Build and Assess RBS Religious Flag; and more. Presents groundbreaking survey methods being utilized today in the field of Big Data Explores how machine learning methods can be applied to the design, collection, and analysis of social science data Filled with examples and illustrations that show how survey data benefits Big Data evaluation Covers methods and applications used in combining Big Data with survey statistics Examines regulations as well as ethical and privacy issues Big Data Meets Survey Science: A Collection of Innovative Methods is an excellent book for both the survey and social science communities as they learn to capitalize on this new revolution. It will also appeal to the broader data and computer science communities looking for new areas of application for emerging methods and data sources.

This report provides an overview of the state of open data policies across OECD member and partner countries, based on data collected through the OECD Open Government Data survey (2013, 2014,

2016), country reviews and comparative analysis.

#1 NEW YORK TIMES BESTSELLER • “The story of modern medicine and bioethics—and, indeed, race relations—is refracted beautifully, and movingly.”—Entertainment Weekly NOW A MAJOR MOTION PICTURE FROM HBO® STARRING OPRAH WINFREY AND ROSE BYRNE • ONE OF THE “MOST INFLUENTIAL” (CNN), “DEFINING” (LITHUB), AND “BEST” (THE PHILADELPHIA INQUIRER) BOOKS OF THE DECADE • ONE OF ESSENCE’S 50 MOST IMPACTFUL BLACK BOOKS OF THE PAST 50 YEARS • WINNER OF THE CHICAGO TRIBUNE HEARTLAND PRIZE FOR NONFICTION NAMED ONE OF THE BEST BOOKS OF THE YEAR BY The New York Times Book Review • Entertainment Weekly • O: The Oprah Magazine • NPR • Financial Times • New York • Independent (U.K.) • Times (U.K.) • Publishers Weekly • Library Journal • Kirkus Reviews • Booklist • Globe and Mail Her name was Henrietta Lacks, but scientists know her as HeLa. She was a poor Southern tobacco farmer who worked the same land as her slave ancestors, yet her cells—taken without her knowledge—became one of the most important tools in medicine: The first “immortal” human cells grown in culture, which are still alive today, though she has been dead for more than sixty years. HeLa cells were vital for developing the polio vaccine; uncovered secrets of cancer, viruses, and the atom bomb’s effects; helped lead to important advances like in vitro fertilization, cloning, and gene mapping; and have been bought and sold by the billions. Yet Henrietta Lacks remains virtually unknown, buried in an unmarked grave. Henrietta’s family did not learn of her “immortality” until more than twenty years after her death, when scientists investigating HeLa began using her husband and chil-

dren in research without informed consent. And though the cells had launched a multimillion-dollar industry that sells human biological materials, her family never saw any of the profits. As Rebecca Skloot so brilliantly shows, the story of the Lacks family—past and present—is inextricably connected to the dark history of experimentation on African Americans, the birth of bioethics, and the legal battles over whether we control the stuff we are made of. Over the decade it took to uncover this story, Rebecca became enmeshed in the lives of the Lacks family—especially Henrietta’s daughter Deborah. Deborah was consumed with questions: Had scientists cloned her mother? Had they killed her to harvest her cells? And if her mother was so important to medicine, why couldn’t her children afford health insurance? Intimate in feeling, astonishing in scope, and impossible to put down, *The Immortal Life of Henrietta Lacks* captures the beauty and drama of scientific discovery, as well as its human consequences.

As the power and sophistication of ‘big data’ and predictive analytics has continued to expand, so too has policy and public concern about the use of algorithms in contemporary life. This is hardly surprising given our increasing reliance on algorithms in daily life, touching policy sectors from healthcare, transport, finance, consumer retail, manufacturing education, and employment through to public service provision and the operation of the criminal justice system. This has prompted concerns about the need and importance of holding algorithmic power to account, yet it is far from clear that existing legal and other oversight mechanisms are up to the task. This collection of essays, edited by two leading regulatory governance scholars, offers a critical exploration of ‘algo-

rithmic regulation', understood both as a means for co-ordinating and regulating social action and decision-making, as well as the need for institutional mechanisms through which the power of algorithms and algorithmic systems might themselves be regulated. It offers a unique perspective that is likely to become a significant reference point for the ever-growing debates about the power of algorithms in daily life in the worlds of research, policy and practice. The range of contributors are drawn from a broad range of disciplinary perspectives including law, public administration, applied philosophy, data science and artificial intelligence. Taken together, they highlight the rise of algorithmic power, the potential benefits and risks associated with this power, the way in which Sheila Jasanoff's long-standing claim that 'technology is politics' has been thrown into sharp relief by the speed and scale at which algorithmic systems are proliferating, and the urgent need for wider public debate and engagement of their underlying values and value trade-offs, the way in which they affect individual and collective decision-making and action, and effective and legitimate mechanisms by and through which algorithmic power is held to account.

How can the law address the constitutional challenges of the algorithmic society? This volume provides possible solutions. This open access book presents an ethical approach to utilizing personal medical data. It features essays that combine academic argument with practical application of ethical principles. The contributors are experts in ethics and law. They address the challenges in the re-use of medical data of the deceased on a voluntary basis. This pioneering study looks at the many factors involved when individu-

als and organizations wish to share information for research, policy-making, and humanitarian purposes. Today, it is easy to donate blood or even organs, but it is virtually impossible to donate one's own medical data. This is seen as ethically unacceptable. Yet, data donation can greatly benefit the welfare of our societies. This collection provides timely interdisciplinary research on biomedical big data. Topics include the ethics of data donation, the legal and regulatory challenges, and the current and future collaborations. Readers will learn about the ethical and regulatory challenges associated with medical data donations. They will also better understand the special nature of using deceased data for research purposes with regard to ethical principles of autonomy, beneficence, and justice. In addition, the contributors identify the key governance issues of such a scheme. The essays also look at what we can learn in terms of best practice from existing medical data schemes.

Best practices for addressing the bias and inequality that may result from the automated collection, analysis, and distribution of large datasets. Human-centered data science is a new interdisciplinary field that draws from human-computer interaction, social science, statistics, and computational techniques. This book, written by founders of the field, introduces best practices for addressing the bias and inequality that may result from the automated collection, analysis, and distribution of very large datasets. It offers a brief and accessible overview of many common statistical and algorithmic data science techniques, explains human-centered approaches to data science problems, and presents practical guidelines and real-world case studies to help readers apply these methods. The authors explain how data scientists'

choices are involved at every stage of the data science workflow—and show how a human-centered approach can enhance each one, by making the process more transparent, asking questions, and considering the social context of the data. They describe how tools from social science might be incorporated into data science practices, discuss different types of collaboration, and consider data storytelling through visualization. The book shows that data science practitioners can build rigorous and ethical algorithms and design projects that use cutting-edge computational tools and address social concerns.

This book is for strategists, leaders, managers, entrepreneurs—who are so caught up in the daily pressures of business that they're missing key signals of their future reality. It's like driving a car heads down, staring at the dashboard, rather than heads up, looking through the windshield. We need to do both. The book is devoted to the practice of sensing, or scanning the horizon for signs of emerging trends. The sooner we see them, the better our response. Each chapter starts with a set of signals—data we observed that, taken together, helped us to reveal a trend. The impact of new technology on strategy is a theme of the book, and each chapter looks at how organizations are using new technologies to their advantage. The goal is to spark meaningful conversations within organizations: How could we participate in the collaborative economy? What could our CIO and our CMO be doing to drive strategy, innovation, and revenue growth? What could we do to leverage the Internet of Things and intelligent automation as catalysts of invention? Could we use MOOCs as pivots for corporate training, recruiting, and marketing? How might technology transform the

manufacturing process, our supply chain, and the knowledge work that we do? Could we take advantage of the renaissance in domestic energy (oil and gas)? What could we be doing to counter cyber crime? What is our organization doing to tune into signals of emerging trends that may be relevant to us? In an environment where the pace of change is accelerating, sensing has become an essential discipline for all organizations. No matter your role in an organization, sensing emerging trends can make you more effective and more valuable in your work. If you've been working too heads-down lately and feel overwhelmed by data and deadlines, then this book is for you. It's a quick read designed to give you a heads up on your horizon.

This report examines the opportunities of enhancing access to and sharing of data (EASD) in the context of the growing importance of artificial intelligence and the Internet of Things. It discusses how EASD can maximise the social and economic value of data re-use and how the related risks and challenges can be addressed. It highlights the trade-offs, complementarities and possible unintended consequences of policy action – and inaction. It also provides examples of EASD approaches and policy initiatives in OECD countries and partner economies. This book contains a range of invited and submitted papers presented at the 11th IFIP WG 9.2, 9.5, 9.6/11.7, 11.4, 11.6/SIG 9.2.2 International Summer School, held in Karlstad, Sweden, in August 2016. The 17 revised full papers and one short paper included in this volume were carefully selected from a total of 42 submissions and were subject to a two-step review process. The papers combine interdisciplinary approaches to bring together a host of perspectives: technical, legal,

regulatory, socio-economic, social, societal, political, ethical, anthropological, philosophical, and psychological. The paper 'Big Data Privacy and Anonymization' is published open access under a CC BY 4.0 license at link.springer.com.

This Open and Connected Government Review of Thailand, the first of its kind, assesses Thailand's efforts to build a government that is closer and more responsive to its citizens by using digitalisation, data and stakeholder participation to drive national development. In line with OECD good practices, the Recommendations of the Council on Digital Government Strategies (2014) and on Open Government (2017), and the OECD Digital Government Policy Framework, the review looks at institutional and legal governance, digital talent and skills, public service provision and the strategic use of technologies and data in the Thai government.

This book constitutes the refereed proceedings of the 11th IFIP WG 11.11 International Conference on Trust Management, IFIPTM 2017, held in Gothenburg, Sweden, in June 2017. The 8 revised full papers and 6 short papers presented were carefully reviewed and selected from 29 submissions. The papers are organized in the following topical sections: information sharing and personal data; novel sources of trust and trust information; applications of trust; trust metrics; and reputation systems. Also included is the 2017 William Winsborough commemorative address and three short IFIPTM 2017 graduate symposium presentations.

Data science is the most exciting skill you can master. Data has dramatically changed how our world works. From entertainment to politics, from technology to advertising and from science to the

business world, data is integral and its only limit is our imagination. If you want to have a vibrant and valuable professional life, being skilled with data is the key to a cutting-edge career. Learning how to work with data may seem intimidating or difficult but with *Confident Data Skills* you will be able to master the fundamentals and supercharge your professional abilities. This essential book covers data mining, preparing data, analysing data, communicating data, financial modelling, visualizing insights and presenting data through film making and dynamic simulations. In-depth international case studies from a wide range of organizations, including Netflix, LinkedIn, Goodreads, Deep Blue, Alpha Go and Mike's Hard Lemonade Co. show successful data techniques in practice and inspire you to turn knowledge into innovation. *Confident Data Skills* also provides insightful guidance on how you can use data skills to enhance your employability and improve how your industry or company works through your data skills. Expert author and instructor, Kirill Eremenko, is committed to making the complex simple and inspiring you to have the confidence to develop an understanding, adeptness and love of data.

Every year, there are advances in the way that we deal with information as individuals, governments, and organizations. We live and work predominantly online resulting in an enormous amount of digital data. The way that information is used is constantly changing with individuals, governments, and corporations all involved in collecting, storing, using, disclosing, and transferring information online. The growth in artificial intelligence and its effects on data will impact all individuals. It is imperative that a greater understanding of these new advances is gained, in particular, the legal implica-

tions they have for society. Legal Regulations, Implications, and Issues Surrounding Digital Data is an essential research publication that assists readers in understanding the current technology they are using, how digital data is being used by governments and organizations, and the current legal issues surrounding these areas that set out challenges in everyday life. Highlighting topics such as data protection, cybercrime, and privacy, this book is ideal for lawyers, academicians, IT specialists, policymakers, cybersecurity professionals, law professionals, researchers, academicians, and students.

This timely book provides an extensive overview and analysis of the law and regulation as it applies to the technology and uses of Artificial Intelligence (AI). It examines the human and ethical concerns associated with the technology, the history of AI and AI in commercial contexts.

This volume focuses on the ethics of internet and social networking research exploring the challenges faced by researchers making use of social media and big data in their research. The internet, the world wide web and social media - indeed all forms of online communications - are attractive fields of research across a range of disciplines. They offer opportunities for methodological initiatives and innovations in research and easily accessed, massive amounts of primary and secondary data sources. This collection examines the new challenges posed by data generated online, explores how researchers are addressing those ethical challenges, and provides rich case studies of ethical decision making in the digital age.

The Future and FinTech examines the fundamental financial technologies and its growing impact on the Banking, Finan-

cial Services and Insurance (BFSI) sectors. With global investment amounting to more than \$100 billion in 2020, the proliferation of FinTech has underpinned the direction payments, loans, wealth management, insurance, and cryptocurrencies are heading. This book presents FinTech from an industrial perspective in the context of architecture and its basic building blocks, e.g., Artificial Intelligence (AI), Blockchain, Cloud, Big Data, Internet of Things (IoT), and its connections to real-life applications at work. It provides a detailed guidance on how FinTech digitalizes business operations, improves productivity and efficiency, and optimizes resource management with the help of some new concepts, such as AIOps, MLOps and DevSecOps. Readers will also discover how FinTech Innovations connect BFSI to the rest of the world with growing interests in Open Banking, Banking-as-a-Service (BaaS) and FinTech-as-a-Service (FaaS). To help readers understand how FinTech has unlocked numerous opportunities for tapping into the massive substantial group of customers, this book illustrates the massive changes already underway and provides insights into changes yet to come through practical examples and applications with illustrative figures and summary tables, making this book a handy quick reference for all things of FinTech. [Related Link\(s\)](#)

Governments are seeking to improve evidence-based policy making as well as trust in decision-making processes. This report offers a first global mapping of principles for the good governance of evidence in policy making, as well as standards of evidence from a significant range of OECD countries and international research bodies.

This book constitutes the refereed proceedings of the 4th International Confer-

ence on Future Network Systems and Security, FNSS 2018, held in Paris, France, in July 2018. The 14 full papers and two short papers presented were carefully reviewed and selected from 39 submissions. The papers are organized in topical sections on secure design and verification; security, privacy and ethics; big data and applications of future network systems.

EPDF and EPUB available Open Access under CC-BY-NC-ND licence. This important book offers practical advice for using evidence and research in policymaking. The book has two aims. First, it builds a case for ethics and global values in research and knowledge exchange, and second, it examines specific policy areas and how evidence can guide practice. The book covers important policy areas including the GM debate, the environment, Black Lives Matter and COVID-19. Each chapter assesses the ethical challenges, the status of evidence in explaining or describing the issue and possible solutions to the problem. The book will enable policymakers and their advisors to seek evidence for their decisions from research that has been conducted ethically and with integrity.

This Digital Government Review of Slovenia explores how the Government of Slovenia could enhance and harness digital government to achieve broader strategic goals. It evaluates the efforts made so far by the Slovenian government in shifting towards a digital government approach by looking at institutional governance, institutional digital talent, public service delivery and the strategic use of data.

The OECD Digital Economy Outlook 2020 examines trends and analyses emerging opportunities and challenges in the digital economy. This third edition of the

OECD Digital Economy Outlook provides a holistic overview of converging trends, policy developments and data on both the supply and demand sides of the digital economy. It illustrates how the digital transformation is affecting economies and societies. Finally, it provides a special focus on how the COVID-19 pandemic is amplifying opportunities and challenges from the digital transformation.

Most of the high-profile cases of real or perceived unethical activity in data science aren't matters of bad intent. Rather, they occur because the ethics simply aren't thought through well enough. Being ethical takes constant diligence, and in many situations identifying the right choice can be difficult. In this in-depth book, contributors from top companies in technology, finance, and other industries share experiences and lessons learned from collecting, managing, and analyzing data ethically. Data science professionals, managers, and tech leaders will gain a better understanding of ethics through powerful, real-world best practices. Articles include: Ethics Is Not a Binary Concept—Tim Wilson How to Approach Ethical Transparency—Rado Kotorov Unbiased \neq Fair—Doug Hague Rules and Rationality—Christof Wolf Brenner The Truth About AI Bias—Cassie Kozyrkov Cautionary Ethics Tales—Sherrill Hayes Fairness in the Age of Algorithms—Anna Jacobson The Ethical Data Storyteller—Brent Dykes Introducing Ethicize™, the Fully AI-Driven Cloud-Based Ethics Solution!—Brian O'Neill Be Careful with "Decisions of the Heart"—Hugh Watson Understanding Passive Versus Proactive Ethics—Bill Schmarzo

All the answers to your data science questions Over half of all businesses are using data science to generate insights and value from big data. How are they doing it? Data Science Strategy For Dum-

mies answers all your questions about how to build a data science capability from scratch, starting with the “what” and the “why” of data science and covering what it takes to lead and nurture a top-notch team of data scientists. With this book, you’ll learn how to incorporate data science as a strategic function into any business, large or small. Find solutions to your real-life challenges as you uncover the stories and value hidden within data. Learn exactly what data science is and why it’s important Adopt a data-driven mindset as the foundation to success Understand the processes and common roadblocks behind data science Keep your data science program focused on generating business value Nurture a top-quality data science team In non-technical language, *Data Science Strategy For Dummies* outlines new perspectives and strategies to effectively lead analytics and data science functions to create real value.

As the impact of data science continues to grow on society there is an increased need to discuss how data is appropriately used and how to address misuse. Yet, ethical principles for working with data have been available for decades. The real issue today is how to put those principles into action. With this report, authors Mike Loukides, Hilary Mason, and DJ Patil examine practical ways for making ethical data standards part of your work every day. To help you consider all of possible ramifications of your work on data projects, this report includes: A sample checklist that you can adapt for your own procedures Five framing guidelines (the Five C’s) for building data products: consent, clarity, consistency, control, and consequences Suggestions for building ethics into your data-driven culture Now is the time to invest in a deliberate

practice of data ethics, for better products, better teams, and better outcomes. Get a copy of this report and learn what it takes to do good data science today.

The use of data science and urban analytics has become a defining feature of smart cities. This timely book is a clear guide to the use of social media data for urban analytics. The book presents the foundations of urban analytics with social media data, along with real-world applications and insights on the platforms we use today. It looks at social media analytics platforms, cyberphysical data analytics platforms, crowd detection platforms, City-as-a-Platform, and city-as-a-sensor for platform urbanism. The book provides examples to illustrate how we apply and analyse social media data to determine disaster severity, assist authorities with pandemic policy, and capture public perception of smart cities. This will be a useful reference for those involved with and researching social, data, and urban analytics and informatics.

The application of digital information and communication technologies (ICTs) to reform governmental structures and public service is widely and perhaps naively viewed as the 21st century “savior”, the enlightened way to reinvigorate democracy, reduce costs, and improve the quality of public services. This book examines the transition from e-government to digital governance in light of the financial exigencies and political controversies facing many governments. The chapters concentrate on strategies for public sector organizational transformation and policies for improved and measurable government performance in the current contentious political environment. This fully updated second edition of *Digital Governance* provides strategies for public officials to apply advanced tech-

nologies, manage remote workforces, measure performance, and improve service delivery in current crisis-driven administrative and political environments. The full implementation of advanced digital governance requires fundamental changes in the relationship between citizens and their governments, using ICTs as catalysts for political as well as administrative communication. This entails attitudinal and behavioral changes, secure networks, and less dependence on formal bureaucratic structures (covered in Part I of this book); transformation of administrative, educational, and security systems to manage public services in a more citizen-centric way (covered in Part II); the integration of advanced digital technologies with remote broadband wireless internet services (Part III); and the creation of new forms of global interactive citizenship and self-governance (covered in Part IV). Author Michael E. Milakovich offers recommendations for further improvement and civic actions to stimulate important instruments of governance and public administration. This book is required reading for political science, public administration, and public policy courses, as well as federal, state, and local government officials.

In the past 30 years, the population of prisoners in the United States has expanded almost 5-fold, correctional facilities are increasingly overcrowded, and more of the country's disadvantaged populations—racial minorities, women, people with mental illness, and people with communicable diseases such as HIV/AIDS, hepatitis C, and tuberculosis—are under correctional supervision. Because prisoners face restrictions on liberty and autonomy, have limited privacy, and often receive inadequate health care, they require specific protections when involved in research, particularly in

today's correctional settings. Given these issues, the Department of Health and Human Services' Office for Human Research Protections commissioned the Institute of Medicine to review the ethical considerations regarding research involving prisoners. The resulting analysis contained in this book, *Ethical Considerations for Research Involving Prisoners*, emphasizes five broad actions to provide prisoners involved in research with critically important protections: • expand the definition of "prisoner"; • ensure universally and consistently applied standards of protection; • shift from a category-based to a risk-benefit approach to research review; • update the ethical framework to include collaborative responsibility; and • enhance systematic oversight of research involving prisoners.

This volume LNCS 12429 constitutes the papers of the 11th International Conference on Electronic Government and the Information Systems Perspective, EGOVIS 2022, held in Vienna, Austria, in August 2022. The 11 full papers presented were carefully reviewed and selected from 16 submissions and focus on information systems and ICT aspects of e-government. The papers are organized in 3 topical sections: e-government theoretical background; semantic technologies and legal issues;; artificial intelligence and machine learning in e-government context.

This accessible, alphabetical guide provides concise insights into a variety of digital research methods, incorporating introductory knowledge with practical application and further research implications. *A-Z of Digital Research Methods* provides a pathway through the often-confusing digital research landscape, while also addressing theoretical, ethical

and legal issues that may accompany each methodology. Dawson outlines 60 chapters on a wide range of qualitative and quantitative digital research methods, including textual, numerical, geographical and audio-visual methods. This book includes reflection questions, useful resources and key texts to encourage readers to fully engage with the methods and build a competent understanding of the benefits, disadvantages and appropriate usages of each method. A-Z of Digital Research Methods is the perfect introduction for any student or researcher interested in digital research methods for social and computer sciences.

This report highlights the important role data can play in creating conditions that improve public services, increase the effectiveness of public spending and inform ethical and privacy considerations. It presents a data-driven public sector framework that can help countries or organisations assess the elements needed for using data to make better-informed decisions across public sectors.

Understand the Impact of AI in Industries and Assess Your Organizational AI Readiness

KEY FEATURES

- _ Proven real use-cases of AI with its benefits illustrated.
- _ Exposure to successful implementation of AI in 8+ sectors.
- _ Exclusive coverage for the leadership team to design AI strategy with calculated risks and benefits.

DESCRIPTION

This book brings you cutting-edge coverage on AI and its ability to create a perfect world or a perfect storm across industries. Equipped with numerous real-world use-cases, the book imparts knowledge on innovations with AI and a process to determine your organizational AI readiness. You will gain from ethical considerations, execution strategy and a comprehensive assessment of AI in your sector. The sectors covered include Healthcare, Educa-

tion, Media & Telecom, Travel & Transportation, Governance, Agriculture, Manufacturing, Retail, Business Functions (Finance, HR, Law, Marketing & Sales), Offices and Personal Life. Apart from this, you will get acquainted with AI policies in the USA, China, Canada, UK, Germany, Australia, India, Russia, OECD and the EU. This book will assist you in understanding your organization's AI maturity and how to gain competitive advantage in your respective industry by introducing AI in the business culture. By the end of this book, you will get strategic insights on managing risk and advancing the AI mandate in your business practices.

WHAT YOU WILL LEARN

- _ Productive & destructive future possibilities with AI.
- _ AI's innovations and applications in different sectors.
- _ Ethical challenges & strategic considerations with AI.
- _ AI policies in some of the major economies.
- _ AI governance & maturity assessment for organizations.

WHO THIS BOOK IS FOR

This book is helpful for those looking to grasp the current state and future possibilities of AI. This includes business and administrative educators, students and professionals. It is particularly useful for leaders who would like to focus on specific industries, assess their current state with AI and get their organizations to be AI ready.

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Digital Government in Mexico discusses and assesses the efforts of the Mexican Government to build a stronger system

of digital government under the Coordination of the National Digital Strategy of the Office of the President. It presents the key policy actions, achievements and co-ordination challenges, and looks at how policy objectives are implemented.

In light of the overwhelming impact of technology on modern life, this thought-provoking book critically analyses the interaction of innovation, technology and corporate law. It highlights the impact of artificial intelligence and distributed ledgers on corporate governance and form, examining the extent to which technology may enhance or displace conventional theories and practices concerning corporate governance and regulation. Expert contributors from multiple jurisdictions identify themes and challenges that transcend national boundaries and confront the international community as a whole.

Artificial intelligence (AI) technologies are transforming economies, societies, and geopolitics. Enabled by the exponential increase of data that is collected, transmitted, and processed transnationally, these changes have important implications for international economic law (IEL). This volume examines the dynamic interplay between AI and IEL by addressing an array of critical new questions, including: How to conceptualize, categorize, and analyze AI for purposes of IEL? How is AI affecting established concepts and rubrics of IEL? Is there a need to reconfigure IEL, and if so, how? Contributors also respond to other cross-cutting issues, including digital inequality, data protection, algorithms and ethics, the regulation of AI-use cases (autonomous vehicles), and systemic shifts in e-commerce (digital trade) and industrial production (fourth industrial revolution). This title is also available as Open Ac-

cess on Cambridge Core.

Digital Government: Managing Public Sector Reform in the Digital Era presents a public management perspective on digital government and technology-enabled change in the public sector. It incorporates theoretical and empirical insights to provide students with a broader and deeper understanding of the complex and multidisciplinary nature of digital government initiatives, impacts and implications. The rise of digital government and its increasingly integral role in many government processes and activities, including overseeing fundamental changes at various levels across government, means that it is no longer perceived as just a technology issue. In this book Miriam Lips provides students with practical approaches and perspectives to better understand digital government. The text also explores emerging issues and barriers as well as strategies to more effectively manage digital government and technology-enabled change in the public sector. Digital Government is the ideal book for postgraduate students on courses in public administration, public management, public policy, political science and international relations, and e-government. It is also suitable for public service managers who are experiencing the impact of digital technology and data in the public sector.

Research universities are critical contributors to our national research enterprise. They are the principal source of a world-class labor force and fundamental discoveries that enhance our lives and the lives of others around the world. These institutions help to create an educated citizenry capable of making informed and crucial choices as participants in a democratic society. However many are concerned that the unintended cumulative

effect of federal regulations undercuts the productivity of the research enterprise and diminishes the return on the federal investment in research. Optimizing the Nation's Investment in Academic Research reviews the regulatory framework as it currently exists, considers specific regulations that have placed undue and often unanticipated burdens on the research enterprise, and reassesses the process by which these regulations are created, reviewed, and retired. This review is critical to strengthen the partnership between the federal government and research institutions, to maximize the creation of new knowledge and products, to provide for the effective training and education of the next generation of scholars and workers, and to optimize the return on the federal investment in research for the benefit of the American people.

This User's Guide is intended to support the design, implementation, analysis, interpretation, and quality evaluation of registries created to increase understanding of patient outcomes. For the purposes of this guide, a patient registry is an organized system that uses observational study methods to collect uniform data (clinical and other) to evaluate specified outcomes for a population defined by a

particular disease, condition, or exposure, and that serves one or more predetermined scientific, clinical, or policy purposes. A registry database is a file (or files) derived from the registry. Although registries can serve many purposes, this guide focuses on registries created for one or more of the following purposes: to describe the natural history of disease, to determine clinical effectiveness or cost-effectiveness of health care products and services, to measure or monitor safety and harm, and/or to measure quality of care. Registries are classified according to how their populations are defined. For example, product registries include patients who have been exposed to biopharmaceutical products or medical devices. Health services registries consist of patients who have had a common procedure, clinical encounter, or hospitalization. Disease or condition registries are defined by patients having the same diagnosis, such as cystic fibrosis or heart failure. The User's Guide was created by researchers affiliated with AHRQ's Effective Health Care Program, particularly those who participated in AHRQ's DECIDE (Developing Evidence to Inform Decisions About Effectiveness) program. Chapters were subject to multiple internal and external independent reviews.