



Current Issues

Digital economy and structural change

Big data

The untamed force

May 5, 2014

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Big data is increasingly becoming a factor in production, market competitiveness and, therefore, growth. Cutting-edge analysis technologies are making inroads into all areas of life and changing our day-to-day existence. Sensor technology, biometric identification and the general trend towards a convergence of information and communication technologies are driving the big data movement.

Huge challenges must be overcome if the benefits are to be leveraged effectively. Matters of concern alongside increasing volumes of data, varying data structures and real-time processing include data security, data privacy policies that are in urgent need of reform and the rising quality expectations of the stakeholders. There is a widespread lack of suitable strategies to respond to the digital revolution.

Data has an economic value. The appetite of many stakeholders for data, including personal data, is growing. Internet users themselves could become the traded commodity, without them ever being aware of this or experiencing any financial benefit.

The opportunities for business, academia and politics are manifold: they range from increases in productivity, reduced costs and optimised customer communications to better disease forecasting and scientific modelling. In addition, more and more public authorities are offering anonymised data sets as a means of generating new products, services and business models.

The risks are not to be underestimated: many people complain not only of a growing feeling of information overload but also of an increasing loss of data sovereignty. Any number of stakeholders are compiling, storing and analysing data, including personal data, for any number of different reasons. If only some of them misuse this data, trust in digital channels could be broken, or at least significantly reduced. This would deal a fatal blow to innovation and growth, and not only in the still relatively young field of research into information technology.

The big data movement cannot be stopped. It is now a question of putting in place the necessary regulatory framework to allow these state-of-the-art methods and the technology that underpins them to properly flourish. With their success in the fields of sensor technology and biometrics as well as data protection, Germany and the European Union now have the opportunity to play a leading international role in the development of secure IT infrastructures.

Big Data Deutsche Bank

Vladimir Il'ich Lenin



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Guide to Big Data Applications S. Srinivasan,2017-05-25 This handbook brings together a variety of approaches to the uses of big data in multiple fields primarily science medicine and business This single resource features contributions from researchers around the world from a variety of fields where they share their findings and experience This book is intended to help spur further innovation in big data The research is presented in a way that allows readers regardless of their field of study to learn from how applications have proven successful and how similar applications could be used in their own field Contributions stem from researchers in fields such as physics biology energy healthcare and business The contributors also discuss important topics such as fraud detection privacy implications legal perspectives and ethical handling of big data

Business Intelligence and Big Data Celina Olszak,2020-11-17 The twenty first century is a time of intensifying competition and progressive digitization Individual employees managers and entire organizations are under increasing pressure to succeed The questions facing us today are What does success mean Is success a matter of chance and luck or perhaps is success a category that can be planned and properly supported Business Intelligence and Big Data Drivers of Organizational Success examines how the success of an organization largely depends on the ability to anticipate and quickly respond to challenges from the market customers and other stakeholders Success is also associated with the potential to process and analyze a variety of information and the means to use modern information and communication technologies ICTs Success also requires creative behaviors and organizational cleverness from an organization The book discusses business intelligence BI and Big Data BD issues in the context of modern management paradigms and organizational success It presents a theoretically and empirically grounded investigation into BI and BD application in organizations and examines such issues as Analysis and interpretation of the essence of BI and BD Decision support Potential areas of BI and BD utilization in organizations Factors determining success with using BI and BD The role of BI and BD in value creation for organizations Identifying barriers and constraints related to BI and BD design and implementation The book presents arguments and evidence confirming that BI and BD may be a trigger for making more effective decisions improving business processes and business performance and creating new business The book proposes a comprehensive framework on how to design and use BI and BD to provide organizational success

Handbook of Big Data and IoT Security Ali Deghantanha, Kim-Kwang Raymond Choo,2019-03-22 This handbook provides an overarching view of cyber security and digital forensic challenges related to big data and IoT environment prior to reviewing existing data mining solutions and their potential application in big data context and existing authentication and access control for IoT devices An IoT access control scheme and an IoT forensic framework is also presented in this book and it explains how the IoT forensic framework can be used to guide investigation of a popular cloud storage service A distributed file system forensic approach is also presented which is used to guide the investigation of Ceph Minecraft a Massively Multiplayer Online Game and the Hadoop distributed

file system environment are also forensically studied and their findings reported in this book A forensic IoT source camera identification algorithm is introduced which uses the camera's sensor pattern noise from the captured image In addition to the IoT access control and forensic frameworks this handbook covers a cyber defense triage process for nine advanced persistent threat APT groups targeting IoT infrastructure namely APT1 Molerats Silent Chollima Shell Crew NetTraveler ProjectSauron CopyKittens Volatile Cedar and Transparent Tribe The characteristics of remote controlled real world Trojans using the Cyber Kill Chain are also examined It introduces a method to leverage different crashes discovered from two fuzzing approaches which can be used to enhance the effectiveness of fuzzers Cloud computing is also often associated with IoT and big data e.g. cloud enabled IoT systems and hence a survey of the cloud security literature and a survey of botnet detection approaches are presented in the book Finally game security solutions are studied and explained how one may circumvent such solutions This handbook targets the security privacy and forensics research community and big data research community including policy makers and government agencies public and private organizations policy makers Undergraduate and postgraduate students enrolled in cyber security and forensic programs will also find this handbook useful as a reference

Data Privacy and Big Data Aadinath Pothuvaal, 2025-01-03 The illustrations in this book are created by Team Educohack

Data Privacy and Big Data A Foundational Guide is your essential resource for understanding the importance of data privacy and its critical role in data security As firms expand and data volumes grow safeguarding data becomes increasingly vital This book offers comprehensive knowledge on the subject ensuring data is handled correctly and protected from misuse We begin with an introduction to data privacy followed by chapters on machine learning statistical learning and the implications of data protection The book also covers compliance tools classification approaches for Big Data security and the evolving landscape of user privacy and innovation A crucial chapter on big data privacy explores privacy models disclosure risk measures and data masking methods We also delve into performance measurement of big data analytics and selecting appropriate data masking techniques The book concludes with a compelling case study on data forensics providing practical insights

Data Privacy and Big Data A Foundational Guide is an indispensable guide for anyone looking to navigate the complexities of data privacy in today's digital world

We are Big Data Sander Klous, Nart Wielaard, 2016-06-21 This book demonstrates the inevitability of a continuously growing role of data in our society and it stresses that this role does not need to be threatening to the contrary collection and analysis of data can help us prevent traffic jams suppress epidemics or produce tailor made medicine The authors sketch the contours of a new information society in which everything will be measured from our heartbeat during our morning run to the music we listen to and our walking patterns through department stores and they discuss the resistances within the society that have to be overcome Sander Klous holds a PhD in High Energy Physics and contributed to the discovery of the Higgs boson at CERN Nobel prize 2013 Klous works at KPMG and is professor in Big Data at the University of Amsterdam Nart Wielaard is a self employed

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