Cloud Computing And Data Protection

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Third International Conference, CloudComp 2012, Vienna, Austria, September 24-26, 2012, Revised Selected Papers Springer Science & Business Media
This book provides expert advice on the practical implementation of the European Union's General Data Protection Regulation (GDPR) and systematically analyses its various provisions. Examples, tables, a checklist etc. showcase the practical consequences of the new legislation. The handbook examines the GDPR's scope of application, the organizational and material requirements for data protection, the rights of data subjects, the role of the Supervisory Authorities, enforcement and fines under the GDPR, and national particularities. In addition, it supplies a brief outlook on the legal consequences for seminal data processing areas, such as Cloud Computing, Big Data and the Internet of Things.Adopted in 2016, the General Data Protection Regulation will come into force in May 2018. It provides for numerous new and intensified data protection obligations, as well as a significant increase in fines (up to 20 million euros). As a result, not only companies located within the European Union will have to change their approach to data security; due to the GDPR's broad, transnational scope of application, it will affect numerous companies worldwide.
Packt Publishing Ltd
An expert introduction More than 85% of businesses now take advantage of Cloud computing, but Cloud computing does not sit easily with the DPA. Data Protection and the Cloud addresses that issue, providing an expert introduction to the legal and practical data protection risks involved in using Cloud services. Data Protection and the Cloud highlights the risks an organisation's use of the Cloud might generate, and offers the kind of remedial measures that might be taken to mitigate those risks. Topics covered include: Protecting the confidentiality, integrity and accessibility of personal dataData protection responsibilitiesThe data controller/data processor relationshipHow to choose Cloud providersCloud security – including two-factor authentication, data classification and segmentationThe increased vulnerability of data in transitThe problem of BYOD (bring your own device)Data transfer abroad, US Safe Harbor and EU legislationRelevant legislation, frameworks and guidance, including: the EU General Data Protection RegulationCloud computing standardsthe international information security standard, ISO 27001the UK Government's Cyber Essentials scheme and security frameworkCESG's Cloud security management principlesguidance from the Information Commissioner's Office and the Open Web Application Security Project (OWASP) Mitigate the security risks Mitigating security risks requires a range of combined measures to be used to provide end-to-end security. Moving to the Cloud does not solve security problems, it just adds another element that must be addressed. Data Protection and the Cloud provides information on how to do so while meeting the DPA's eight principles.
An Enterprise Perspective on Risks and Compliance
Momentum Press
This book analyzes the latest advances in privacy, security and risk technologies within cloud environments. With contributions from leading experts, the text presents both a solid overview of the field and novel, cutting-edge research. A Glossary is also included at the end of the book. Topics and features: considers the various forensic challenges for legal access to data in a cloud computing environment; discusses privacy impact assessments for the cloud, and examines the use of cloud audits to attenuate cloud security problems; reviews conceptual issues, basic requirements and practical suggestions for provisioning dynamically configured access control services in the cloud;

proposes scoped invariants as a primitive for analyzing a cloud server for its integrity properties; investigates the applicability of existing controls for mitigating information security risks to cloud computing environments; describes risk management for cloud computing from an enterprise perspective.
Data Protection and the Cloud - Are You Really Managing the Risks? Springer
This book features peer reviewed contributions from across the disciplines on themes relating to protection of data and to privacy protection. The authors explore fundamental and legal questions, investigate case studies and consider concepts and tools such as privacy by design, the risks of surveillance and fostering trust. Readers may trace both technological and legal evolution as chapters examine current developments in ICT such as cloud computing and the Internet of Things. Written during the process of the fundamental revision of revision of EU data protection law (the 1995 Data Protection Directive), this volume is highly topical. Since the European Parliament has adopted the General Data Protection Regulation (Regulation 2016/679), which will apply from 25 May 2018, there are many details to be sorted out. This volume identifies and exemplifies key, contemporary issues. From fundamental rights and offline alternatives, through transparency requirements to health data breaches, the reader is provided with a rich and detailed picture, including some daring approaches to privacy and data protection. The book will inform and inspire all stakeholders. Researchers with an interest in the philosophy of law and philosophy of technology, in computers and society, and in European and International law will all find something of value in this stimulating and engaging work.
Data Localization Laws and Policy Springer
Although Europe has a significant legal data protection framework, built up around EU Directive 95/46/EC and the Charter of Fundamental Rights, the question of whether data protection and its legal framework are 'in good health' is increasingly being posed. Advanced technologies raise fundamental issues regarding key concepts of data protection. Falling storage prices, increasing chips performance, the fact that technology is becoming increasingly embedded and ubiquitous, the convergence of technologies and other technological developments are broadening the scope and possibilities of applications rapidly. Society however, is also changing, affecting the privacy and data protection landscape. The 'demand' for free services, security, convenience, governance, etc, changes the mindsets of all the stakeholders involved. Privacy is being proclaimed dead or at least worthy of dying by the captains of industry; governments and policy makers are having to manoeuvre between competing and incompatible aims; and citizens and customers are considered to be indifferent. In the year in which the plans for the revision of the Data Protection Directive will be revealed, the current volume brings together a number of chapters highlighting issues, describing and discussing practices, and offering conceptual analysis of core concepts within the domain of privacy and data protection. The book's first part focuses on surveillance, profiling and prediction; the second on regulation, enforcement, and security; and the third on some of the fundamental concepts in the area of privacy and data protection. Reading the various chapters it appears that the 'patient' needs to be cured of quite some weak spots, illnesses and malformations. European data protection is at a turning point and the new challenges are not only accentuating the existing flaws and the anticipated difficulties, but also, more positively, the merits and the need for strong and accurate data protection practices and rules in Europe, and elsewhere.
Cloud Computing OUP Oxford
Build a resilient cloud architecture to tackle data disasters with ease Key Features Gain a firm grasp of Cloud data security and governance, irrespective of your Cloud platform Practical examples to ensure you secure your Cloud environment efficiently A step-by-step guide that will teach you the unique techniques and methodologies of Cloud data governance Book Description Modern day businesses and enterprises are moving to the Cloud, to improve efficiency and speed, achieve flexibility and cost effectiveness, and for on-demand Cloud services. However, enterprise Cloud security remains a major concern because migrating to the public Cloud requires transferring some control over organizational assets to the Cloud provider. There are chances these assets can be mismanaged and therefore, as a Cloud security professional, you need to be armed with techniques to help businesses minimize the risks and misuse of business data. The book starts with the basics of Cloud security and offers an understanding of various policies, governance, and compliance challenges in Cloud. This helps you build a strong foundation before you dive deep into understanding what it takes to design a secured network infrastructure and a well-architected application using various security services in the Cloud environment. Automating security tasks, such as Server Hardening with

Ansible, and other automation services, such as Monit, will monitor other security daemons and take the necessary action in case these security daemons are stopped maliciously. In short, this book has everything you need to secure your Cloud environment with. It is your ticket to obtain industry-adopted best practices for developing a secure, highly available, and fault-tolerant architecture for organizations. What you will learn Configure your firewall and Network ACL Protect your system against DDOS and application-level attacks Explore cryptography and data security for your cloud Get to grips with configuration management tools to automate your security tasks Perform vulnerability scanning with the help of the standard tools in the industry Learn about central log management Who this book is for If you are a Cloud security professional who wants to ensure Cloud security and data governance irrespective of the environment, then this book is for you. Basic understanding of working on any Cloud platforms is beneficial.
Informational Self Determination in Cloud Computing. Data Transmission and Privacy with Subcontractors Springer
Information society projects promise wealth and better services to those countries which digitise and encourage the consumer and citizen to participate. As paper recedes into the background and digital data becomes the primary resource in the information society, what does this mean for privacy? Can there be privacy when every communication made through ever-developing ubiquitous devices is recorded? Data protection legislation developed as a reply to large scale centralised databases which contained incorrect data and where data controllers denied access and refused to remedy information flaws. Some decades later the technical world is very different one, and whilst data protection remains important, the cries for more privacy-oriented regulation in commerce and eGov continue to rise. What factors should underpin the creation of new means of regulation? The papers in this collection have been drawn together to develop the positive and negative effects upon the information society which privacy regulation implies.
Government Cloud Procurement Springer
You may regard cloud computing as an ideal way for your company to control IT costs, but do you know how private and secure this service really is? Not many people do. With Cloud Security and Privacy, you'll learn what's at stake when you trust your data to the cloud, and what you can do to keep your virtual infrastructure and web applications secure. Ideal for IT staffers, information security and privacy practitioners, business managers, service providers, and investors alike, this book offers you sound advice from three well-known authorities in the tech security world. You'll learn detailed information on cloud computing security that-until now-has been sorely lacking. Review the current state of data security and storage in the cloud, including confidentiality, integrity, and availability Learn about the identity and access management (IAM) practice for authentication, authorization, and auditing of the users accessing cloud services Discover which security management frameworks and standards are relevant for the cloud Understand the privacy aspects you need to consider in the cloud, including how they compare with traditional computing models Learn the importance of audit and compliance functions within the cloud, and the various standards and frameworks to consider Examine security delivered as a service-a different facet of cloud security
Advances in Service-Oriented and Cloud Computing Springer Science & Business Media
Collaboration with Cloud Computing discusses the risks associated with implementing these technologies across the enterprise and provides you with expert guidance on how to manage risk through policy changes and technical solutions. Drawing upon years of practical experience and using numerous examples and case studies, author Ric Messier discusses: The evolving nature of information security The risks, rewards, and security considerations when implementing SaaS, cloud computing and VoIP Social media and security risks in the enterprise The risks and rewards of allowing remote connectivity and accessibility to the enterprise network Discusses the risks associated with technologies such as social media, voice over IP (VoIP) and cloud computing and provides guidance on how to manage that risk through policy changes and technical solutions Presents a detailed look at the risks and rewards associated with cloud computing and storage as well as software as a service (SaaS) and includes pertinent case studies Explores the risks associated with the use of social media to the enterprise network Covers the bring-your-own-device (BYOD) trend, including policy considerations and technical requirements
The Data Protection Officer Edward Elgar Publishing
This book constitutes the thoroughly refereed post

conference proceedings of the Third International Conference on Cloud Computing, Cloud Comp 2012, held in Vienna, Austria, in September 2012. The 14 revised full papers were carefully reviewed and selected from numerous submissions and cover various topics in the application of cloud computing technologies.

Cloud Computing Data Localization Laws and PolicyThe EU Data Protection International Transfers Restriction Through a Cloud Computing Lens

Data Localization Laws and PolicyThe EU Data Protection International Transfers Restriction Through a Cloud Computing LensEdward Elgar Publishing

Privacy in the Information Society Springer Science & Business Media

This volume brings together papers that offer methodologies, conceptual analyses, highlight issues, propose solutions, and discuss practices regarding privacy and data protection. It is one of the results of the eight annual International Conference on Computers, Privacy, and Data Protection, CPDP 2015, held in Brussels in January 2015. The book explores core concepts, rights and values in (upcoming) data protection regulation and their (in)adequacy in view of developments such as Big and Open Data, including the right to be forgotten, metadata, and anonymity. It discusses privacy promoting methods and tools such as a formal systems modeling methodology, privacy by design in various forms (robotics, anonymous payment), the opportunities and burdens of privacy self management, the differentiating role privacy can play in innovation. The book also discusses EU policies with respect to Big and Open Data and provides advice to policy makers regarding these topics. Also attention is being paid to regulation and its effects, for instance in case of the so-called 'EU-cookie law' and groundbreaking cases, such as Europe v. Facebook. This interdisciplinary book was written during what may turn out to be the final stages of the process of the fundamental revision of the current EU data protection law by the Data Protection Package proposed by the European Commission. It discusses open issues and daring and prospective approaches. It will serve as an insightful resource for readers with an interest in privacy and data protection.

Foundations and Challenges Cambridge University Press
In Government Cloud Procurement, Kevin McGillivray explores the question of whether governments can adopt cloud computing services and still meet their legal requirements and other obligations to citizens. The book focuses on the interplay between the technical properties of cloud computing services and the complex legal requirements applicable to cloud adoption and use. The legal issues evaluated include data privacy law (GDPR and the US regime), jurisdictional issues, contracts, and transnational private law approaches to addressing legal requirements. McGillivray also addresses the unique position of governments when they outsource core aspects of their information and communications technology to cloud service providers. His analysis is supported by extensive research examining actual cloud contracts obtained through Freedom of Information Act requests. With the demand for cloud computing on the rise, this study fills a gap in legal literature and offers guidance to organizations considering cloud computing. IET

Der Band dokumentiert die Ergebnisse und Empfehlungen einer Analyse zur Frage, wie sich IT-Gesetze entwickeln sollten, unter der Prämisse, dass die heutige und zukünftige Informations- und Kommunikationstechnologie durch Cloud Computing geprägt ist. Insbesondere entwickelt sich diese Untersuchung auf einer vergleichenden und einer interdisziplinären Achse, d.h. als Rechtsvergleich zwischen EU und US-Recht und interdisziplinär zwischen Recht und IT. Die Arbeit konzentriert sich auf den Schwerpunkt vom Datenschutz und Datensicherheit in Cloud-Umgebungen und analysiert drei Hauptherausforderungen auf dem Weg zu einer effizienteren Cloud-Computing-Regulierung: Verständnis der Gründe für die Entwicklung divergierender Rechtsordnungen und Denkschulen zum IT-Recht Gewährleistung der Privatsphäre und Datenschutz in der Cloud konvergierende Regulierungsansätze für die Cloud in der Hoffnung auf eine harmonisierte Landschaft von IT-Gesetzen in der Zukunft.

A Comparison of China and Europe's Data Protection Regulations Regarding Cloud Computing and the Impact of the GDPR on Chinese Cloud Service Providers Nomos Verlag

Cloud Computing has already been embraced by many organizations and individuals due to its benefits of economy, reliability, scalability and guaranteed quality of service among others. But since the data is not stored, analysed or computed on site, this can open security, privacy, trust and compliance issues. This one-stop reference covers a wide range of issues on data security in Cloud Computing ranging from accountability, to data provenance, identity and risk management. Data Security in Cloud Computing covers major aspects of securing data in Cloud Computing. Topics covered include NOMAD: a framework for ensuring data confidentiality in mission-critical cloud based applications; 3DCrypt: privacy-

preserving pre-classification volume ray-casting of 3D images in the cloud; multiprocessor system-on-chip for processing data in Cloud Computing; distributing encoded data for private processing in the cloud; data protection and mobility management for cloud; understanding software defined perimeter; security, trust and privacy for Cloud Computing in transportation cyber-physical systems; review of data leakage attack techniques in cloud systems; Cloud Computing and personal data processing: sorting out legal requirements; the Waikato data privacy matrix; provenance reconstruction in clouds; and security visualization for Cloud Computing.

European Data Protection: In Good Health? John Wiley & Sons

This open access book brings together perspectives from multiple disciplines including psychology, law, IS, and computer science on data privacy and trust in the cloud. Cloud technology has fueled rapid, dramatic technological change, enabling a level of connectivity that has never been seen before in human history. However, this brave new world comes with problems. Several high-profile cases over the last few years have demonstrated cloud computing's uneasy relationship with data security and trust. This volume explores the numerous technological, process and regulatory solutions presented in academic literature as mechanisms for building trust in the cloud, including GDPR in Europe. The massive acceleration of digital adoption resulting from the COVID-19 pandemic is introducing new and significant security and privacy threats and concerns. Against this backdrop, this book provides a timely reference and organising framework for considering how we will assure privacy and build trust in such a hyper-connected digitally dependent world. This book presents a framework for assurance and accountability in the cloud and reviews the literature on trust, data privacy and protection, and ethics in cloud computing.

Security and Privacy Trends in Cloud Computing and Big Data Springer
Data Protection is of extremely high relevance these days. The fast progression technological development leads to a massive digitalisation of data, which makes data much faster and easier accessible. Furthermore, new business models with a technological background have emerged, which was not foreseen not even two decades ago. One of these business models is Cloud Computing. Cloud computing is ubiquitous. For example in the US, small enterprises is said to increase from 37 to nearly 80 percent until 2020. In the UK in 2014 already 75 percent of the SMEs used cloud services in some way, the number for bigger enterprises is probably even higher. Germany, however, falls behind in numbers, only 44 percent of the businesses using Clouds in 2014. These numbers are still speaking for themselves: cloud computing is already of high importance in business and will in all probability be growing in the future, due to the fact that amongst others, it can safeguard expenses and facilitate especially international commerce and trade. Clouds are furthermore not exclusively used professionally. The non-business use of Clouds in Norway for example, amounts for instance to 43 percent, followed by Iceland (39 percent) and Great Britain (38 percent). In the European Union clouds are used on an average of 22 percent. These numbers might be smaller than in fields of business but cannot be expected as a sign for decreasing numbers of use in private cases. Cloud computing will therefore be of particular importance both in professional and private fields in the future. Since Cloud Computing is a model completely dependent on technologies, it is also imperilled to dangers accompanied by technology. Failures of servers or networks are as well possible as the system can be hacked by people. Due to inherent dangers, it is essential to also have security measures available - therefore data protection law is necessary. This book is supposed to serve as a handbook on cloud computing that on one hand should give people who are not very familiar with technology a short and easy understanding of cloud computing itself. On the other hand it is supposed to also explain the main legal bases that are important for cloud computing, including the new data protection rules of the EU. These new rules contain two different instruments of which only one is directly important for cloud computing: the new European Privacy Regulation. The Data Protection Directive for the police and justice sector however does not affect Cloud Computing immediately and will therefore be excluded in this title.

Cloud Computing Security CRC Press
This volume contains the technical papers presented in the workshops, PhD Symposium and EU Projects Track which took place at the 8th European Conference on Service-Oriented and Cloud Computing, ESOCC 2020, held in Heraklion, Crete, Greece, in September 2020: 1st International Workshop on Edge Adoption and Migration, EdgeWays 2020, 16th International Workshop on Engineering Service-Oriented Applications and Cloud Services, WESOACS 2020, ESOCC 2020 PhD

Symposium, ESOCC 2020 EU Projects Track. Due to the COVID-19 pandemic the conference and workshops were held in a virtual format. The 17 full papers and 2 short papers were reviewed and selected from 22 submissions. The papers focus on specific topics in service-oriented and cloud computing domains such as limits and/or advantages of existing cloud solutions, future internet technologies, efficient and adaptive deployment and management of service-based applications across multiple clouds, novel cloud service migration practices and solutions, digitization of enterprises in the cloud computing era, federated cloud networking services.

New Technology, Big Data and the Law Springer Science & Business Media
The emergence of the cloud as infrastructure: experts from a range of disciplines consider policy issues including reliability, privacy, consumer protection, national security, and copyright. Are the risks too great? "O'Reilly Media, Inc."
This volume contains the proceedings of CloudCom 2009, the First Inter- tional Conference on Cloud Computing. The conference was held in Beijing, China, during December 1–4, 2009, and was the ?rst in a series initiated by the Cloud Computing Association (www.cloudcom.org). The Cloud Computing Association was founded in 2009 by Chunming Rong, Martin Gilje Jaatun, and Frode Eika Sandnes. This ?rst conference was organized by the Beijing Ji- tong University, Chinese Institute of Electronics, and Wuhan University, and co-organized by Huazhong University of Science and Technology, South China Normal University, and Sun Yat-sen University. Ever since the inception of the Internet, a "Cloud" has been used as a metaphor for a network-accessible infrastructure (e.g., data storage, computing hardware, or entire networks) which is hidden from users. To some, the concept of cloud computing may seem like a throwback to the days of big mainframe computers, but we believe that cloud computing makes data truly mobile, - lowing a user to access services anywhere, anytime, with any Internet browser. In cloud computing, IT-related capabilities are provided as services, accessible without requiring control of, or even knowledge of, the underlying technology. Cloud computing provides dynamic scalability of services and computing power, and although many mature technologies are used as components in cloud c- puting, there are still many unresolved and open problems.