Cloud Computing And Data Protection

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OSBORN HUERTA

An Enterprise Perspective on Risks and Compliance CRC Press
This book offers guidance for US-based IT businesses on both sides of the Atlantic when dealing with big data and government data, since transatlantic data flows are key to the success of these enterprises. It offers practical insights into many of the data-protection challenges US companies in various industries face when seeking to comply with US and EU data-protection laws, and analyses the potential conflicts in the light of their risks and the way in which US-based cloud providers react to the uncertainties of the applicable data-protection rules. The book particularly focuses on the insights derived from a qualitative study conducted in 2016 with various cloud-based IT businesses in the Silicon Valley area, which shows the diversity of views on data protection and the many approaches companies take to this topic. Further, it discusses key data-protection issues in the field of big data and government data.
Contracts, Data Protection, and the Quest for Compliance Cambridge University Press
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.
Advances in Service-Oriented and Cloud Computing IGI Global
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.

Profession, Rules, and Role Springer

Countries are increasingly introducing data localization laws, threatening digital globalization and inhibiting cloud computing adoption despite its acknowledged benefits. This multi-disciplinary book analyzes the EU restriction (including the Privacy Shield and General Data Protection Regulation) through a cloud computing lens, covering historical objectives and practical problems, showing why the focus should move from physical data location to effective jurisdiction over those controlling access to intelligible data, and control of access to data through security.

The EU Data Protection International Transfers Restriction Through a Cloud Computing Lens OUP Oxford

This book constitutes the refereed proceedings of the 7th International Conference on Cloud Computing, Security, Privacy in New Computing Environments, CloudComp 2016, and the First EAI International Conference SPNCE 2016, both held in Guangzhou, China, in November and December 2016.The proceedings contain 10 full papers selected from 27 submissions and presented at CloudComp 2016 and 12 full papers selected

from 69 submissions and presented at SPNCE 2016. CloudComp 2016 presents recent advances and experiences in clouds, cloud computing and related ecosystems and business support. SPNCE 2016 focuses on security and privacy aspects of new computing environments including mobile computing, big data, cloud computing and other large-scale environments.
Springer Science & Business Media
Cloud computing is becoming the next revolution in the IT industry; providing central storage for internet data and services that have the potential to bring data transmission performance, security and privacy, data deluge, and inefficient architecture to the next level. Enabling the New Era of Cloud Computing: Data Security, Transfer, and Management discusses cloud computing as an emerging technology and its critical role in the IT industry upgrade and economic development in the future. This book is an essential resource for business decision makers, technology investors, architects and engineers, and cloud consumers interested in the cloud computing future.
Data Security in Cloud Computing, Volume II John Wiley & Sons
The book aims to integrate the aspects of IoT, Cloud computing and data analytics from diversified perspectives. The book also plans to discuss the recent research trends and advanced topics in the field which will be of interest to academicians and researchers working in this area. Thus, the book intends to help its readers to understand and explore the spectrum of applications of IoT, cloud computing and data analytics. Here, it is also worth mentioning that the book is believed to draw attention on the applications of said technology in various disciplines in order to obtain enhanced understanding of the readers. Also, this book focuses on the researches and challenges in the domain of IoT, Cloud computing and Data analytics from perspectives of various stakeholders.
Cloud Computing and Data Protection Springer
Data Localization Laws and PolicyThe EU Data Protection International Transfers Restriction Through a Cloud Computing LensEdward Elgar Publishing
Auditing Cloud Computing Data Localization Laws and PolicyThe EU Data Protection International Transfers Restriction Through a Cloud Computing Lens
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

Policy for Computing Infrastructure Cambridge University Press

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.

Data Protection Challenges in Cloud Computing Routledge

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.

Foundations and Challenges Springer Nature

Master's Thesis from the year 2015 in the subject Law - European and International Law, Intellectual Properties, grade: 95,5, Centre International de Formation Européenne - Nice (CIFE European Online Academy), course: European Law - Informational Self Determination in Cloud Computing -- Data Transmission and Privacy with Subcontractors, language: English, abstract: The paper analyses the constraints of the current European directive on data protection regarding the free and active exercise of the right to informational self-determination in cloud computing with subcontractor chains. The analysis focuses in particular on the personal and geographical scope of the protection of personal data, on the legitimation of data processing under the aspect of data transmission into secure and unsecure third countries with subcontractor involvement. Herein it will be critically analysed whether the options under which it is possible to process personal data, will deliver sufficient privacy security in cloud computing. Furthermore, the paper examines the effectiveness and the consequences of possible legitimation of processing personal data in cloud computing. Also, will be regarded the legitimation options to include subcontractors in complex cloud computing landscapes in secure and unsecure third countries. The data subject and the cloud user position and chances to execute their rights of informational self-determination in distributed cloud computing landscapes will be critical looked at. Based on the

multiple challenges that the personal data faces in complex cloud computing landscapes, various improvement potentials addressed to different actors emphasis the necessity to reduce the risk to the data subject´s informational self-determination in cloud computing. Finally, the recent regulation on general data protection that was published by the Council on 11th June 2015 will be cross-checked against the identified gaps of the currently existing data protection directive, with an emphasis on the requirements to achieve informational self-determination.
Privacy and Legal Issues in Cloud Computing Momentum Press
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.
Third International Conference, CloudComp 2012, Vienna, Austria, September 24-26, 2012, Revised Selected Papers Springer
With a view to helping managers ask the right questions, Data Protection and the Cloud explains how you can effectively manage the risks associated with the Cloud and meet regulatory requirements. This book discusses: The controller-processor relationship and what you should pay attention to; How to mitigate security risks in the Cloud to comply with Article 32 of the EU GDPR (General Data Protection Regulation); How to comply with Chapter V of the GDPR when transferring data to third countries; and The implications of the NIS Directive (Directive on security of network and information systems) for Cloud providers. One of the most dramatic recent developments in computing has been the rapid adoption of Cloud applications. According to the 2018 Bitglass Cloud Adoption Report, more than 81% of organisations have now adopted the Cloud in some form, compared with only 24% in 2014. And there are no signs that this is slowing down. The GDPR was enforced on 25 May 2018, superseding the 1995 Data Protection Directive and all local implementations. Bringing data protection into the 21st century, the Regulation expands the rights of individuals, but also introduces new, stricter requirements for organisations. This pocket guide discusses the GDPR requirements relating to Cloud sourcing and the risks involved. Buy today and learn how to meet your data protection obligations when using Cloud services.
IT Laws in the Era of Cloud-Computing Springer Nature
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.

New Technology, Big Data and the Law Springer Science & Business Media

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.

Regulating the Cloud Springer

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.

The Data Protection Officer Edward Elgar Publishing

The EU's General Data Protection Regulation created the position of corporate Data Protection Officer (DPO), who is empowered to ensure the organization is compliant with all aspects of the new

data protection regime. Organizations must now appoint and designate a DPO. The specific definitions and building blocks of the data protection regime are enhanced by the new General Data Protection Regulation and therefore the DPO will be very active in passing the message and requirements of the new data protection regime throughout the organization. This book explains the roles and responsiblies of the DPO, as well as highlights the potential cost of getting data protection wrong.

Integration of Cloud Computing with Internet of Things IET

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.

7th International Conference, CloudComp 2016, and First International Conference, SPNCE 2016, Guangzhou, China, November 25–26, and December 15–16, 2016, Proceedings Springer

This timely interdisciplinary work on current developments in ICT and privacy/data protection, coincides as it does with the rethinking of the Data Protection Directive, the contentious debates on data sharing with the USA (SWIFT, PNR) and the judicial and political resistance against data retention. The authors of the contributions focus on particular and pertinent issues from the perspective of their different disciplines which range from the legal through sociology, surveillance studies and technology assessment, to computer sciences. Such issues include cutting-edge developments in the field of cloud computing, ambient intelligence and PETs; data retention, PNR-agreements, property in personal data and the right to personal identity; electronic road tolling, HIV-related information, criminal records and teenager's online conduct, to name but a few.