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KEY=TECHNOLOGIES - BUCKLEY CURTIS

THE LAW AND ETHICS OF FREEDOM OF THOUGHT, VOLUME 1

NEUROSCIENCE, AUTONOMY, AND INDIVIDUAL RIGHTS

Palgrave Macmillan *Freedom of thought is one of the great and venerable notions of Western thought, often celebrated in philosophical texts – and described as a crucial right in American, European, and International Law, and in that of other jurisdictions. What it means more precisely is, however, anything but clear; surprisingly little writing has been devoted to it. In the past, perhaps, there has been little need for such elaboration. As one Supreme Court Justice stressed, "[f]reedom to think is absolute of its own nature" because even "the most tyrannical government is powerless to control the inward workings of the mind." But the rise of brain scanning, cognition enhancement, and other emerging technologies make this question a more pressing one. This volume provides an interdisciplinary exploration of how freedom of thought might function as an ethical principle and as a constitutional or human right. It draws on philosophy, legal analysis, history, and reflections on neuroscience and neurotechnology to explore what respect for freedom of thought (or an individual's cognitive liberty or autonomy) requires.*

THE IMPACT OF EMERGING TECHNOLOGIES ON THE LAW OF ARMED CONFLICT

Oxford University Press *Emerging technologies have always played an important role in armed conflict. From the crossbow to cyber capabilities, technology that could be weaponized to create an advantage over an adversary has inevitably found its way into military arsenals for use in armed conflict. The weaponization of emerging technologies, however, raises challenging legal issues with respect to the law of armed conflict. As States continue to develop and exploit new technologies, how will the law of armed conflict address the use of these technologies on the battlefield? Is existing law sufficient to regulate new technologies, such as cyber capabilities, autonomous weapons systems, and artificial intelligence? Have emerging technologies fundamentally altered the way we should understand concepts such as law-of-war precautions and the principle of distinction? How can we ensure compliance and accountability in light of technological advancement? This volume of the Lieber Studies explores these critical questions while highlighting the legal challenges--and opportunities--presented by the use of emerging technologies on the battlefield.*

LEGAL INFORMATICS

Cambridge University Press *This cutting-edge volume offers a theoretical and applied introduction to the emerging legal technology and informatics industry.*

NEW TECHNOLOGIES FOR HUMAN RIGHTS LAW AND PRACTICE

Cambridge University Press *Provides a roadmap for understanding the relationship between technology and human rights law and practice. This title is also available as Open Access.*

YEARBOOK OF INTERNATIONAL HUMANITARIAN LAW, VOLUME 21 (2018)

Springer Nature *The main theme of this volume of the Yearbook of International Humanitarian Law is weapons law. In several chapters, how International Humanitarian Law (IHL) copes with old and new weapons as well as political developments in regard to military technology is discussed, while in two chapters the significance of non- or less-lethal weapons in peace-keeping and law enforcement operations as well as the legality of lethal autonomous weapon systems under IHL are analysed. Moreover, the volume describes the current status of nuclear deterrence under international law. Another layer is added by examining how IHL influences the programming of automatic target recognition systems using artificial intelligence. The second part of the book contains a historic perspective on the roots of IHL in Europe, which can be traced back to the ninth century, as well as a Year in Review describing the most important events and legal developments in the area of IHL that took place in 2018. The Yearbook of International Humanitarian Law is the world's only annual publication devoted to the study of the laws governing armed conflict. It provides a truly international forum for high-quality, peer-reviewed academic articles focusing on this crucial branch of international law. Distinguished by contemporary relevance, the Yearbook of International Humanitarian Law bridges the gap between theory and practice and serves as a useful reference tool for scholars, practitioners, military personnel, civil servants, diplomats, human rights workers and students.*

THE GROWING GAP BETWEEN EMERGING TECHNOLOGIES AND LEGAL-ETHICAL OVERSIGHT

THE PACING PROBLEM

Springer Science & Business Media *At the same time that the pace of science and technology has greatly accelerated in recent decades, our legal and ethical oversight mechanisms have become bogged down and slower. This book addresses the growing gap between the pace of science and technology and the lagging responsiveness of legal and ethical oversight society relies on to govern emerging technologies. Whether it be biotechnology, genetic testing, nanotechnology, synthetic biology, computer privacy, autonomous robotics, or any of the other many emerging technologies, new approaches are needed to ensure appropriate and timely regulatory responses. This book documents the problem and offers a toolbox of potential regulatory and governance approaches that might be used to ensure more responsive oversight.*

NEW ZEALAND BUSINESS LAW HANDBOOK VOLUME 1 STRATEGIC INFORMATION AND BASIC LAWS

Lulu.com *Basic business legislation, laws, export-import regulations affecting business, business climate and contacts*

NEW SUITS

APPETITE FOR DISRUPTION IN THE LEGAL WORLD (US VERSION)

Stämpfli Verlag *"Time to get out of Law Law Land and back into the Jungle" Fuelled by advancing technology, new business models, and altered client expectations, the legal industry faces unprecedented change across its entire value chain. Unfortunately, many legal professionals fear the technology train and the convergence of other fields with law. They see legaltech, AI, and bots like "lions and tigers and bears oh my." We (the editors and authors of this book) see opportunity. Although the future may require us to put on "new suits"—it represents an enormous opportunity for lawyers to reinvent ourselves for our own and our clients' benefit. Filled with chapters written by experts in the intersection of law, innovation, and technology, this book provides a global perspective on the diverse legal service delivery ecosystem that will be our future. It provides chapter upon chapter (reason upon reason) explaining why lawyers can and should increase their appetite for disruption in the legal world. So welcome to the jungle and enjoy the ride as we attempt to systematically map the uncharted waters of the future legal realm and simultaneously inspire you to build a new future in law.*

MARINE SCIENTIFIC RESEARCH, NEW MARINE TECHNOLOGIES AND THE LAW OF THE SEA

BRILL *Marine Scientific Research, New Marine Technologies and the Law of the Sea offers expert insights into new legal developments covering marine scientific research (MSR) including marine genetic resources regime development and emerging marine technologies including floating nuclear power plants.*

SCOTT ON INFORMATION TECHNOLOGY LAW

Wolters Kluwer *For answers to questions relating to computers, the Internet and other digital technologies - and how to make them work for your clients - turn to this comprehensive, practical resource. Whether you're an experienced IT lawyer, a transactional or intellectual property attorney, an industry executive, or a general practitioner whose clients are coming to you with new issues, you'll find practical, expert guidance on identifying and protecting intellectual property rights, drafting effective contracts, understanding applicable regulations, and avoiding civil and criminal liability. Written by Michael D. Scott, who practiced technology and business law for 29 years in Los Angeles and Silicon Valley, Scott on Information Technology Law, Third Edition offers a real-world perspective on how to structure transactions involving computer products and services such as software development, marketing, and licensing. He also covers the many substantive areas that affect technology law practice, including torts, constitutional issues, and the full range of intellectual property protections. You'll find coverage of the latest issues like these: computer and cybercrime, including spyware, phishing, denial of service attacks, and more traditional computer crimes the latest judicial thinking on software and business method patents open source licensing outsourcing of IT services and the legal and practical issues involved in making it work and more To help you quickly identify issues, the book also includes practice pointers and clause-by-clause analysis of the most common and often troublesome provisions of IT contracts.*

LAW/TECHNOLOGY

HANDBOOK OF RESEARCH ON EMERGING DEVELOPMENTS IN DATA PRIVACY

IGI Global *Data collection allows today's businesses to cater to each customer's individual needs and provides a necessary edge in a competitive market. However, any breach in confidentiality can cause serious consequences for both the consumer and the company. The Handbook of Research on Emerging Developments in Data Privacy brings together new ideas on how to deal with potential leaks of valuable customer information. Highlighting the legal aspects of identity protection, trust and security, and detection techniques, this comprehensive work is a valuable resource for any business, legal, or technology professional looking to improve information security within their organization.*

MESABA ENERGY PROJECT

ENVIRONMENTAL IMPACT STATEMENT

ELECTRONIC SIGNATURES IN INTERNATIONAL CONTRACTS

Peter Lang *Originally presented as the author's thesis (doctoral)--Freiburg (Breisgau), Universiteat, 2008.*

INTELLIGENT KNOWLEDGE-BASED SYSTEMS

BUSINESS AND TECHNOLOGY IN THE NEW MILLENNIUM

Springer *This five-volume set clearly manifests the great significance of these key technologies for the new economies of the new millennium. The discussions provide a wealth of practical ideas intended to foster innovation in thought and, consequently, in the further development of technology. Together, they comprise a significant and uniquely comprehensive reference source for research workers, practitioners, computer scientists, academics, students, and others on the international scene for years to come.*

SMART LEGAL CONTRACTS

COMPUTABLE LAW IN THEORY AND PRACTICE

Oxford University Press *A landmark investigation into one of the most important trends at the interface of law and technology: the effort to harness emerging digital technologies to change the way that parties form and perform contracts.*

LAWS OF THE STATE OF NEW YORK

LAW, TECHNOLOGY AND DISPUTE RESOLUTION

THE PRIVATISATION OF COERCION (OPEN ACCESS)

Routledge *The use of new information and communication technologies both inside the courts and in private online dispute resolution services is quickly changing everyday conflict management. However, the implications of the increasingly disruptive role of technology in dispute resolution remain largely undiscussed. In this book, assistant professor of law and digitalisation Riikka Koulu examines the multifaceted phenomenon of dispute resolution technology, focusing specifically on private enforcement, which modern technology enables on an unforeseen scale. The increase in private enforcement confounds legal structures and challenges the nation-state's monopoly on violence. And, in this respect, the author argues that the technology-driven privatisation of enforcement – from direct enforcement of e-commerce platforms to self-executing smart contracts in the blockchain – brings the ethics of law's coercive nature out into the open. This development constitutes a new, and dangerous, grey area of conflict management, which calls for transparency and public debate on the ethical implications of dispute resolution technology.*

EMERGING TOPICS AND TECHNOLOGIES IN INFORMATION SYSTEMS

IGI Global *"This book communicates the various challenges and great opportunities that information systems research produces"--Provided by publisher.*

THE NEW ECONOMY OF THE PRODUCT LIFE CYCLE

INNOVATION AND DESIGN IN THE DIGITAL ERA

Springer Nature *This book presents the theory and practice of product lifecycle management, chiefly focusing on modern approaches suitable for digitalized enterprises. In addition to describing adaptive methods for advanced product creation using big data analytics, it presents economic and mathematical models for managing product lifecycles based on the application of recent methods (e.g. digital design and automated intelligent systems) to control pre-production and production processes. Given its scope, the book appeals to researchers, economic analysts and entrepreneurs alike.*

EU ENERGY LAW, VOLUME 3

RENEWABLE ENERGY IN THE MEMBER STATES OF THE EU

Claeys & Casteels Law Publishing *This second edition's core objective is to provide a complete overview of the relevance of renewable energy in all EU Member States and the developments in these countries over time. To give an even broader perspective, contributions focused on some non-EU countries - like the US, Switzerland, and China - are also included. Not only are development plans and requirements by the State and other authorities included in this volume, but it also includes: legislative requirements for renewable energy * support mechanisms * grid access rules * grid code * supervision of the renewable energy sector * overview of planning * construction and operation * use of specific structural and cohesion funds for renewable energy project development.*

SCIENTIFIC AND TECHNICAL AEROSPACE REPORTS

THE LAW OF ENERGY UNDERGROUND

UNDERSTANDING NEW DEVELOPMENTS IN SUBSURFACE PRODUCTION, TRANSMISSION, AND STORAGE

OUP Oxford *While energy has been extracted from the ground for two centuries, recent years have seen transformative changes to how easy it is to access underground energy resources. This book investigates the key challenges and legal consequences of recent developments in the use of the subsurface as a source of energy. It provides a comprehensive analysis of the new technologies that have made this possible, such as the extraction of unconventional oil and gas resources through horizontal drilling and hydraulic fracturing, also known as fracking. Further developments include the expanded use of geothermal energy, which has the potential to beome a major renewable energy source. The subsurface can also be utilised for long-term disposal or storage of environmentally harmful by-products of energy use, such as carbon capture and storage (CCS), and disposal of spent nuclear fuel and other nuclear waste. Successful development of these technologies could enhance the use of fossil and nuclear energy by reducing the harm caused by the release of greenhouse gases and harmful radiation. The authors bring together a wide variety of expertise and knowledge to examine the legal implications of the development and control of these underground activities. They provide an invaluable understanding of the legal frameworks applicable to the extraction of underground energy, both at the international level and in a number of important national jurisdictions. Importantly, the book analyses the different regulatory responses to these developments across five continents, and assesses in detail the environmental impact of new energy extraction technologies.*

NEW TECHNOLOGIES AND THE LAW IN WAR AND PEACE

Cambridge University Press *Policymakers, legislators, scientists, thinkers, military strategists, academics, and all those interested in understanding the future want to know how twenty-first century scientific advance should be regulated in war and peace. This book tries to provide some of the answers. Part I summarises some important elements of the relevant law. In Part II, individual chapters are devoted to cyber capabilities, highly automated and autonomous systems, human enhancement technologies, human degradation techniques, the regulation of nanomaterials, novel naval technologies, outer space, synthetic brain technologies beyond artificial intelligence, and biometrics. The final part of the book notes important synergies that emerge between the different technologies and legal provisions, existing and proposed, assesses notions of convergence and of composition in international law, and provides some concluding remarks. The new technologies, their uses, and their regulation in war and peace are presented to the reader who is invited to draw conclusions.*

ENERGY ABSTRACTS FOR POLICY ANALYSIS

NEW TECHNOLOGIES AND THE FIRM

INNOVATION AND COMPETITION

Routledge *Originally published in 1993 this book presents the findings of 14 teams involved in a research initiative to examine the initiation and resonse to innovation in firms. It draws together the many strands which were discovered to influence the successful generation and adoption of new technologies. The core issues in technology management are looked at, including skills and expertise, markets and marketing, finance and the issue of technology collaboration both on a domestic and international basis. Technology is shown to be at the very heart of corporate strategy and policy formation.*

RESOURCES IN EDUCATION

STEM CELL RESEARCH AND THE COLLABORATIVE REGULATION OF INNOVATION

Routledge *Hopes are high that stem cell (SC) research will lead to treatments and cures for some of the most serious diseases affecting humankind today. SC science has been used in a treatment setting in the replacement of patients' windpipes and in restoring sight to patients who were blind in one eye and in future it is hoped that when the body is injured it will be able to be stimulated to produce those types of SCs necessary to repair the particular damage caused. In the meantime, research into specific treatments for a wide range of serious conditions is being undertaken including Alzheimer's disease, cancer, and diabetes. The book considers the regulatory governance of stem cell research, setting out a readily understandable account of the science and the challenges it poses for regulators as the research is increasingly being clinically applied. It provides a critical account of those elements of a regulatory system which will be required for any jurisdiction aiming to facilitate innovative and productive SC research while maintaining appropriate ethical and legal controls. The book addresses the specific failings in the current regulatory approach to SC research in the UK and goes on to look at the regulatory approaches in the US. The book systematically analyses the roles and responsibilities of the three key participants who collaborate in this process: regulators, scientists and tissue providers,*

arguing that a regulatory system which fails to recognise and facilitate the vital role which each of these three groups plays runs the risk of impairing the chances of the hopes for SC research being realised. The book places a particular emphasis on ensuring that those who contribute their bodily tissues to this endeavour are treated fairly, involving a recognition that their tissues are their property.

CATALOG OF SUPERFUND PROGRAM INFORMATION PRODUCTS

ENERGY RESEARCH ABSTRACTS

THE LAWYER'S GUIDE TO STRATEGIC PLANNING

DEFINING, SETTING, AND ACHIEVING YOUR FIRM'S GOALS

American Bar Association *This practical book is designed to educate lawyers on the importance of sltrategic planning for a law firm.*

M-HEALTH

EMERGING MOBILE HEALTH SYSTEMS

Springer Science & Business Media *M-health can be defined as the 'emerging mobile communications and network technologies for healthcare systems.' This book paves the path toward understanding the future of m-health technologies and services and also introducing the impact of mobility on existing e-health and commercial telemedical systems. M-Health: Emerging Mobile Health Systems presents a new and forward-looking source of information that explores the present and future trends in the applications of current and emerging wireless communication and network technologies for different healthcare scenaria. It also provides a discovery path on the synergies between the 2.5G and 3G systems and other relevant computing and information technologies and how they prescribe the way for the next generation of m-health services. The book contains 47 chapters, arranged in five thematic sections: Introduction to Mobile M-health Systems, Smart Mobile Applications for Health Professionals, Signal, Image, and Video Compression for M-health Applications, Emergency Health Care Systems and Services, Echography Systems and Services, and Remote and Home Monitoring. This book is intended for all those working in the field of information technologies in biomedicine, as well as for people working in future applications of wireless communications and wireless telemedical systems. It provides different levels of material to researchers, computing engineers, and medical practitioners interested in emerging e-health systems. This book will be a useful reference for all the readers in this important and growing field of research, and will contribute to the roadmap of future m-health systems and improve the development of effective healthcare delivery systems.*

ACID PRECIPITATION

USE AND MISUSE OF NEW TECHNOLOGIES

CONTEMPORARY CHALLENGES IN INTERNATIONAL AND EUROPEAN LAW

Springer *The ever-increasing use of technology is challenging the current status of the law, bringing about new problems and questions. The book addresses this trend from the perspective of International law and European Union law and is divided into three main thematic sections. The first section focuses on the legal implications of the use of technology either for law enforcement purposes or in the context of military activities, and examines how this use adds a new dimension to perennial issues, such as the uneasy balance between security concerns and the protection of individual rights, and defining the exact scope of certain State obligations. In so doing, it takes into account a range of current and potential scenarios at the international, regional and domestic level, including the use of killer robots, databases, drones and technology in general to patrol borders, exchange information on criminal suspects, maintain public order, target suspected terrorists and conduct military activities. In turn, the second section examines the role of institutional and non-institutional actors in establishing substantive normative standards for the use of high-tech applications. In this respect, it focuses both on the role that European courts have played so far, and on how other actors' initiatives can contribute to the construction of a new legal framework for technology-related activities. Lastly, the third section has a two-fold focus: the first part investigates how the increasing reliance on technology is affecting traditional rules on international responsibility, and is challenging, in particular, the attribution of wrongful conduct to States and international organizations. The second part addresses issues of jurisdiction and justiciability. Given the scope of its coverage, this timely book addresses an important lacuna in the current legal scholarship, exploring some of the most recent applications of technology and the legal issues arising as a result. Readers will gain novel insights into the challenges posed to International law and European law by the growing reliance on technology, taking into account both its uses and misuses.*

NEW TECHNOLOGIES IN RADIATION ONCOLOGY

Springer Science & Business Media *- Summarizes the state of the art in the most relevant areas of medical physics and engineering applied to radiation oncology - Covers all relevant areas of the subject in detail, including 3D imaging and image processing, 3D treatment planning, modern treatment techniques, patient positioning, and aspects of verification and quality assurance - Conveys information in a readily understandable way that will appeal to professionals and students with a medical background as well as to newcomers to radiation oncology from the field of physics*

MINERALS YEARBOOK

MONTHLY CATALOG OF UNITED STATES GOVERNMENT PUBLICATIONS

PASSWORD

INNOVATIONS THROUGH INFORMATION TECHNOLOGY

2004 INFORMATION RESOURCES MANAGEMENT ASSOCIATION INTERNATIONAL CONFERENCE, NEW ORLEANS, LOUISIANA, USA, MAY 23-26, 2004

IGI Global *Innovations Through Information Technology aims to provide a collection of unique perspectives on the issues surrounding the management of information technology in organizations around the world and the ways in which these issues are addressed. This valuable book is a compilation of features including the latest research in the area of IT utilization and management, in addition to being a valuable source in support of teaching and research agendas.*

DIGITAL TECHNOLOGIES AND THE LAW OF OBLIGATIONS

Routledge *Digital Technologies and the Law of Obligations critically examines the emergence of new digital technologies and the challenges they pose to the traditional law of obligations, and discusses the extent to which existing contract and tort law rules and doctrines are equipped to meet these new challenges. This book covers various contract and tort law issues raised by emerging technologies – including distributed ledger technology, blockchain-based smart contracts, and artificial intelligence – as well as by the evolution of the internet into a participative web fuelled by user-generated content, and by the rise of the modern-day collaborative economy facilitated by digital technologies. Chapters address these topics from the perspective of both the common law and the civil law tradition. While mostly focused on the current state of affairs and recent debates and initiatives within the European Union regulatory framework, contributors also discuss the central themes from the perspective of the national law of obligations, examining the adaptability of existing legal doctrines to contemporary challenges, addressing the occasional legislative attempts to deal with the private law aspects of these challenges, and pointing to issues where legislative interventions would be most welcomed. Case studies are drawn from the United States, Singapore, and other parts of the common law world. Digital Technologies and the Law of Obligations will be of interest to legal scholars and researchers in the fields of contract law, tort law, and digital law, as well as to legal practitioners and members of law reform bodies.*