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The book analyses the impact the jurisprudence of the constitutional courts of EU Member States and the Court of Justice of the European Union has had on the perception of freedom of communications in the digital era with respect to these courts' judgments regarding regulating storage and access to telecommunications data (known as telecommunications data retention) from 2008 to 2017. To do so, it examines the jurisprudence of the constitutional courts of Austria, Bulgaria, Cyprus, Czech Republic, Ireland, Germany, Poland, Portugal, Romania, Slovenia, and Slovakia, i.e. those courts that have already ruled on domestic provisions regulating telecommunications data retention. Further, it investigates the judgments of the Court of Justice of European Union regarding directive 2006/24/EC regulating telecommunications data retention along with relevant jurisprudence of the European Court of Human Rights. As such, the book provides a comparative study of jurisprudence and national measures to implement the Data Retention Directive. Moreover, the book discusses whether our current understanding of protection of freedom of communications guaranteed by the constitutions of EU member states and the EU Charter of Fundamental Rights, which was developed in the era of analogue communications, remains accurate in the era of digital technologies and mass surveillance (simultaneously applied by states and private corporations). In this context, the book reconstructs constitutional standards that currently apply in the EU towards data retention. This book presents a unique comparative analysis of all judgments concerning Directive 2006/24/EC, which can be used in the legislative process on the EU forum aimed at introducing new principles of data retention and by constitutional courts in the context of comparative argumentation. Discover the latest technologies in the pursuit of zero-waste solutions in the electronics industry In *Electronic Waste: Recycling and Reprocessing for a Sustainable Future*, a team of expert sustainability researchers delivers a collection of resources that thoroughly examine methods for extracting value from electronic waste while aiming for a zero-waste scenario in industrial production. The book discusses the manufacturing and use of materials in electronic devices while presenting an overview of separation methods for industrial materials. Readers will also benefit from a global overview of various national and international regulations related to the topic of electronic and electrical waste. A must-read resource for scientists and engineers working in the production and development of electronic devices, the authors provide comprehensive overviews of the benefits of achieving a zero-waste solution in electronic and electrical waste, as well as the risks posed by incorrectly disposed of electronic waste. Readers will enjoy: An introduction to electronic waste, including the opportunities presented by zero-waste technologies and solutions Explorations of e-waste management and practices in developed and developing countries and e-waste transboundary movement regulations in a variety of jurisdictions Practical discussions of approaches for estimating e-waste generation and the materials used in electronic equipment and manufacturing perspectives In-depth treatments of various recycling technologies, including physical separation, pyrometallurgy, hydrometallurgy, and biohydrometallurgy Perfect for materials scientists, electronic engineers, and metal processing professionals, *Electronic Waste: Recycling and Reprocessing for a Sustainable Future* will also earn a place in the libraries of industrial chemists and professionals working in organizations that use large amounts of chemicals or produce electronic waste. Controlling the properties of materials by modifying their composition and by manipulating the arrangement of atoms and molecules is a dream that can be achieved by nanotechnology. As one of the fastest developing and innovative -- as well as well-funded -- fields in science, nanotechnology has already significantly changed the research landscape in chemistry, materials science, and physics, with numerous applications in consumer products, such as sunscreens and water-repellent clothes. It is also thanks to this multidisciplinary field that flat panel displays, highly efficient solar cells, and new biological imaging techniques have become reality. This second, enlarged edition has been fully updated to address the rapid progress made within this field in recent years. Internationally recognized experts provide comprehensive, first-hand information, resulting in an overview of the entire nano-micro world. In so doing, they cover aspects of funding and commercialization, the manufacture and future applications of nanomaterials, the fundamentals of nanostructures leading to macroscale objects as well as the ongoing miniaturization toward the nanoscale domain. Along the way, the authors explain the effects occurring at the nanoscale and the nanotechnological characterization techniques. An additional topic on the role of nanotechnology in energy and mobility covers the challenge of developing materials and devices, such as electrodes and membrane materials for fuel cells and catalysts for sustainable transportation. Also new to this edition are the latest figures for funding, investments, and commercialization prospects, as well as recent research programs and organizations. *Fetal & Neonatal Physiology* provides neonatologist fellows and physicians with the essential information they need to effectively diagnose, treat, and manage sick and premature infants. Fully comprehensive, this resource continues to serve as an excellent reference tool, focusing on the basic science needed for exam preparation and the key information required for full-time practice. The 5th edition is the most substantially updated and revised edition ever. In the 5 years since the last edition published, there have been thousands of publications on various aspects of development of health and disease; *Fetal and Neonatal Physiology* synthesizes this knowledge into definitive guidance for today's busy practitioner. Offers definitive guidance on how to effectively manage the many health problems seen in newborn and premature infants. Chapters devoted to clinical correlation help explain the implications of fetal and neonatal physiology. Allows you to apply the latest insights on genetic therapy, intrauterine infections, brain protection and neuroimaging, and much more. Features a fantastic new 4-color design with 1,000 illustrations, 170+ chapters, and over 350 contributors. 16 new chapters cover such hot topics as Epigenetics; Placental Function in Intrauterine Growth Restriction; Regulation of Pulmonary Circulation; The Developing Microbiome of the Fetus and Newborn; Hereditary Contribution to Neonatal Hyperbilirubinemia; Mechanistic Aspects of Phototherapy for Neonatal Hyperbilirubinemia; Cerebellar Development; Pathophysiology of Neonatal Sepsis; Pathophysiology of Persistent Pulmonary Hypertension of the Newborn; Pathophysiology of Meconium Aspiration Syndrome; Pathophysiology of Ventilator Dependent Infants; Pathophysiology of Hypoxic-Ischemic Brain Injury; Pathophysiology of Neonatal White Matter

Injury; Pathophysiology of Meningitis; Pathophysiology of Preeclampsia; and Pathophysiology of Chorioamnionitis. New Pathophysiology of Neonatal Diseases section highlights every process associated with a disease or injury, all in one place. In-depth information, combined with end-of-chapter summaries, enables deep or quick use of the text. In order to maintain the strong progress achieved since 2000 and meet Africa's longer-term challenges, it is important for both African governments and their international partners to meet their development commitments and to monitor and evaluate their results. Derived from the renowned multi-volume International Encyclopaedia of Laws, this analysis of media law in Slovenia surveys the massively altered and enlarged legal landscape traditionally encompassed in laws pertaining to freedom of expression and regulation of communications. Everywhere, a shift from mass media to mass self-communication has put enormous pressure on traditional law models. An introduction describing the main actors and salient aspects of media markets is followed by in-depth analyses of print media, radio and television broadcasting, the Internet, commercial communications, political advertising, concentration in media markets, and media regulation. Among the topics that arise for discussion are privacy, cultural policy, protection of minors, competition policy, access to digital gateways, protection of journalists' sources, standardization and interoperability, and liability of intermediaries. Relevant case law is considered throughout, as are various ethical codes. A clear, comprehensive overview of media legislation, case law, and doctrine, presented from the practitioner's point of view, this book is a valuable time-saving resource for all concerned with media and communication freedom. Lawyers representing parties with interests in Slovenia will welcome this very useful guide, and academics and researchers will appreciate its value in the study of comparative media law. This work introduces heavy ion beam probe diagnostics and presents an overview of its applications. The heavy ion beam probe is a unique tool for the measurement of potential in the plasma core in order to understand the role of the electric field in plasma confinement, including the mechanism of transition from low to high confinement regimes (L–H transition). This allows measurement of the steady-state profile of the plasma potential, and its use has been extended to include the measurement of quasi-monochromatic and broadband oscillating components, the turbulent-particle flux and oscillations of the electron density and poloidal magnetic field. Special emphasis is placed on the study of Geodesic Acoustic Modes and Alfvén Eigenmodes excited by energetic particles with experimental data sets. These experimental studies help to understand the link between broadband turbulent physics and quasi-coherent oscillations in devices with a rather different magnetic configuration. The book also compares spontaneous and biased transitions from low to high confinement regimes on both classes of closed magnetic traps (tokamak and stellarator) and highlights the common features in the behavior of electric potential and turbulence of magnetized plasmas. A valuable resource for physicists, postgraduates and students specializing in plasma physics and controlled fusion. This book gives an overview of electronic waste (e-waste) management and the latest technological aspects of recycling and disposal of obsolete electronic components while minimizing the environmental impact of toxic chemicals and heavy metals from e-waste. As electronics become more accessible worldwide, this effect generates up to 50 tonnes of e-waste that is only set to increase every year. The chapters in this book explore different strategies through recycling practices, green computing, and eco-friendly approach in handling e-waste through government policies to mitigate the growing side effects of e-waste. This book caters to researchers, policymakers, and industrial practitioners who are interested in more sustainable practices in e-waste management. Data integrity is a critical aspect to the design, implementation, and usage of any system which stores, processes, or retrieves data. The overall intent of any data integrity technique is the same: ensure data is recorded exactly as intended and, upon later retrieval, ensure the data is the same as it was when originally recorded. Any alternation to the data is then traced to the person who made the modification. The integrity of data in a patient's electronic health record is critical to ensuring the safety of the patient. This book is relevant to production systems and quality control systems associated with the manufacture of pharmaceuticals and medical device products and updates the practical information to enable better understanding of the controls applicable to e-records. The book highlights the e-records suitability implementation and associated risk-assessed controls, and e-records handling. The book also provides updated regulatory standards from global regulatory organizations such as MHRA, Medicines and Healthcare Products Regulatory Agency (UK); FDA, Food and Drug Administration (US); National Medical Products Association (China); TGA, Therapeutic Goods Administration (Australia); SIMGP, Russia State Institute of Medicines and Good Practices; and the World Health Organization, to name a few. Cyber security has become a topic of concern over the past decade as private industry, public administration, commerce, and communication have gained a greater online presence. As many individual and organizational activities continue to evolve in the digital sphere, new vulnerabilities arise. Cyber Security and Threats: Concepts, Methodologies, Tools, and Applications contains a compendium of the latest academic material on new methodologies and applications in the areas of digital security and threats. Including innovative studies on cloud security, online threat protection, and cryptography, this multi-volume book is an ideal source for IT specialists, administrators, researchers, and students interested in uncovering new ways to thwart cyber breaches and protect sensitive digital information. About the publication Honoured to present to you, the reader, the 2020 edition of the Pretoria Student Law Review (PSLR), an annual publication which is the pride of the best law faculty in Africa (according to the Times Higher Education World University Rankings). The University of Pretoria's Law Faculty ranks in the top 100 law faculties in the world, a feat unequalled in Africa. The PSLR is a student driven law review that creates an interactive forum for students, academics and legal professionals to discuss topical legal matters that challenge the status quo. At the beginning of this year, lay the fantasy of newness — presenting an opportunity to do great things. But as I reflect on the journey leading to this publication, I understand that the 2020 edition of the PSLR had an engine that ran on hope; faith; dedication; perseverance; commitment and hard work. Our predecessors had a vision to create a boldly outlined legacy for the PSLR, they spearheaded the setting up of a system that would last the lifespan of the PSLR. Today, some 13 years after the first edition of the PSLR, South Africa, the continent and the world at large are on the cusp of a new era — socially, economically and politically. When my journey as Editor-in-Chief commenced, I imagined the PSLR as a ship, whose captain was myself. Customarily, it is easy to be a captain of a ship in calm seas, but unlike most of my predecessors, I have had to be the captain of a ship through the heftiest of storms. The world was not truly prepared to face challenges presented by the Covid-19, let alone the PSLR. In the wake of the 4IR and this new age of technology, sailing this ship to success was still a heavy task to complete. It is therefore with great honour to have been able to successfully complete the task for which we, the 14th cohort of the Editorial Board, were called for. We have upheld the esteemed reputations that have been left by our predecessors. Fittingly, I wish to applaud my team for their inspiring commitment, outstanding contribution and service in maintaining the elevated standard of the PSLR. For indeed it is a publication, par excellence. Amidst the storms, we have spearheaded the establishment of a 'free-floating' PSLR Collection in the OR Tambo Law Library. This collection is dedicated to house all published PSLR editions, dating since the inception of the PSLR in 2007. We have established and strengthened relations with other Law Faculties in the country, and even beyond. We published the very first special edition of the PSLR, a focused edition that covers a critical issue brought before the South African Law Deans Association — the Decolonisation of Legal Education. We have established a system by which all authors who publish with us, ought to have an ORCID iD. We have adopted internal regulations that outline the principles that govern the Editorial Board. We have spearheaded the adoption and implementation of a policy that forces us to comply with DHET Standards in order to be a DHET Accredited Journal so as to encourage and foster a student culture of critical research & writing in legal academia. I am truly proud of the work that the authors have put into their articles and I would like to thank them for their submissions and tireless efforts to produce quality articles. More-so, I am proud of the Editorial Board for being able to work under immense pressure. This edition would have not been possible without the dedication and hard work of this dream team. I remain indebted to you all: Adelaide Chagopa, Kayla Thomas, Marcia van der Merwe, Nicholas Herd and Pheny Sekati. It has been a great pleasure and a privilege to have worked with you on this annual edition. A note of thanks to Dr Gustav Muller in his capacity as the Guardian of the PSLR. To the reviewers, your adjudication lays the foundation for each edition, year-in-year-out. Your support and contribution to the PSLR remains invaluable. To Lizette Hermann, Elzet Hurter and Mornay Hassen, thank you for your continued and immeasurable support throughout this journey. To Primrose E.R Kurasha, thank you for believing in me and for guiding me. I am forever indebted to you my friend. To my family: Elizabeth Mtshweni; Jostina Mtshweni; Clayton Mtshweni; Lucas Berto Mateus; Stephine Mashilo and Lerato Mashilo, words cannot begin to express my gratitude for all the

support you have given me throughout this journey. Thank you for keeping me sane through one of the toughest times of my 'publishing' career. Thank you for the endless amount of support and the unconditional love you give me always. You are the power & oil that kept this engine running, all by the sufficient grace of God. I hereby pass the baton and entrust the next Editor-in-Chief with the difficult task of running faster and running a better marathon than myself and my predecessors. To you future author, I implore you to start writing, for the water does not flow until the faucet is turned on. To you the reader, Jurgen Zwecker was right: enjoy the read — without fear to question what is in front of you, for that is the only way we, as scholars, grow.

Simon Motshweni Editor-in-Chief 2020 Table of Contents Editors' note by Simon Motshweni Statutory utility rights to realise access to services as a characteristic of adequate housing by Gustav Muller The experiences of women and barriers for career advancement in tertiary institutions in a South African context by Bernardete Mendes 'I've changed' says South African law: Has the judiciary opened up to black women lawyers? by Cebolenkosi Makhaye Sexual orientation and gender identities (SOGI) law and social change by Chanelle van der Linde Game of Thrones: The battle of the Mphephus by Gudani Tshikota Critical race theory and feminist legal theory: Perspectives on transformation of the judiciary by Hayley C. Warring International law rules relating to migration arising from rising sea-levels by Keketso G. 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Khoza The Fourth Industrial Revolution: A case for educational transformation by Thembekele M. Mtsweni The Gabriel Fernandez case: A comparative analysis of a 'mandated reporter' in light of the Children's Act by Thiavna Subroyen Transformative adjudication and the place of administrative law in South African jurisprudence: *ABSA Bank Limited v Public Protector* by Tshupo Twala & Mpho Mogadime The pas de deux between education and recreation: Facilitating the realisation of Articles 11 and 12 of the African Charter on the Rights and Welfare of the Child in Schools by Thandeka N. Khoza & Cebolenkosi Zuma This book discusses how technological innovations have affected the resolution of disputes arising from electronic commerce in the European Union, UK and China. Online dispute resolution (ODR) is a form of alternative dispute resolution in which information technology is used to establish a process that is more effective and conducive to resolving the specific types of dispute for which it was created. This book focuses on out-of-court ODR and the resolution of disputes in the field of electronic commerce. It explores the potential of ODR in this specific e-commerce context and investigates whether the current use of ODR is in line with the principles of access to justice and procedural fairness. Moreover, it examines the major concerns surrounding the development of ODR, e.g. the extent to which electronic ADR agreements are recognized by national courts in cross-border e-commerce transactions, how procedural justice is ensured in ODR proceedings, and whether ODR outcomes can be effectively enforced. To this end, the book assesses the current and potential role of ODR in resolving e-commerce disputes, identifies the legal framework for and legal barriers to the development of ODR, and makes recommendations as to the direction in which practice and the current legal framework should evolve. In closing, the book draws on the latest legislation in the field of e-commerce law and dispute resolution in order to make recommendations for future ODR design, such as the EU Platform-to-Business Regulation on Promoting Fairness and Transparency for Business Users of Online Intermediation Services (2019) and the United Nations Convention on International Settlement Agreements Resulting from Mediation (2018), which provide the legal basis for ODR's future development. This book examines how consumers are protected on the online marketplace in the context of ASEAN countries. While many sectors have been badly affected by the COVID-19 pandemic, e-retailing is one of the booming sectors during this period. Actually, the e-retailing sector was already booming even before the global pandemic. Although e-retailing offers many opportunities for businesses and consumers, there are several issues associated with e-consumer protection. This book examines how consumers are protected on the online marketplace in the context of ASEAN countries. Specifically, this project: (i) Discusses the six issues of e-consumer protection (e.g., information about transaction, product quality, privacy, security, redress, and jurisdiction); (ii) Examines the policy/governance approach adopted by different sectors to address the issues of e-consumer protection; and (iii) Proposes a multi-sector governance framework for e-consumer protection. Three short case studies on Lazada in Singapore, Shopee in Vietnam, and Zalora in Malaysia are also included to illustrate how well-known e-retailers protect their e-customers. Overall, this book is interdisciplinary, including research on consumer protection, governance, management, and policy/regulation. It provides sources of information and knowledge which focus on both theoretical and practical aspects of e-consumer protection in ASEAN countries. Also, the roles from different sectors are examined to produce comprehensive findings and analysis of the governance process. This book constitutes the refereed proceedings of the First International Conference on Digital Transformation and Global Society, DTGS 2016, held in St. Petersburg, Russia, in June 2016. The 43 revised full papers and 15 revised short papers, presented together with 3 poster papers and an invited paper were carefully reviewed and selected from 157 submissions. The papers are organized in topical sections on eSociety: New Social Media Studies; eSociety: eGovernment and eParticipation: Perspectives on ICTs in Public Administration and Democracy; eKnowledge: ICTs in Learning and Education Management; eCity: ICTs for Better Urban (Rural) Planning and Living; eHealth: ICTs in Healthcare; eScience: Big Data Complex Calculations. Advances in Agronomy continues to be recognized as a leading reference and a first-rate source for the latest research in agronomy. Each volume contains an eclectic group of reviews by leading scientists throughout the world. Five volumes are published yearly which ensures that authors' contributions are disseminated to the readership in a timely manner. As always, the subjects covered are varied and exemplary of the myriad of subject matter dealt with by this long-running serial. Timely and state-of-the-art reviews Distinguished, well recognized authors A venerable and iconic review series Timely publication of submitted reviews This book gathers the proceedings of the 7th International Conference and Exhibition on Sustainable Energy and Advanced Materials (ICE-SEAM), held on November 2021, a virtual conference organized in Melaka, Malaysia. It focuses on two relatively broad areas—advanced materials and sustainable energy—and a diverse range of subtopics: Advanced materials and related technologies: liquid crystals, semiconductors, superconductors, optics, lasers, sensors, mesoporous materials, nanomaterials, smart ferrous materials, amorphous materials, crystalline materials, biomaterials, metamaterials, composites, polymers, design, analysis, development, manufacturing, processing and testing for advanced materials. Sustainable energy and related technologies: energy management, storage, conservation, industrial energy efficiency, energy-efficient buildings, energy-efficient traffic systems, energy distribution, energy modeling, hybrid and integrated energy systems, fossil energy, nuclear energy, bioenergy, biogas, biomass geothermal power, non-fossil energies, wind energy, hydropower, solar photovoltaic, fuel cells, electrification, and electrical power systems and controls. Complete proceedings of the 15th European Conference on eGovernment Portsmouth UK Published by Academic Conferences and Publishing International Limited From East to West, the economies of Europe and Central Asia (ECA) are not taking full advantage of the internet to foster economic growth and job creation. The residents of Central Asia and the South Caucasus pay some of the highest prices in the world for internet connections that are slow and unreliable. In contrast, Europe enjoys some of the world's fastest and affordable internet services. However, its firms and individuals are not fully exploiting the internet to achieve higher productivity growth as well as more and better jobs. Reaping Digital Dividends investigates the barriers that are holding back the broader adoption of the internet in ECA. The report identifies the main bottlenecks and provides policy recommendations tailored to economies at varying levels of digital development. It concludes that policies to increase internet access are

necessary but not sufficient. Policies to foster competition, international trade and skills supply, as well as adapting regulations to the changing business environment and labor markets, will also be necessary. In other words, Reaping Digital Dividends not only requires better connectivity, but also complementary factors that allow governments, firms and individuals to make the most out of it. An E-Commerce Law For the World: The Model Electronic Transactions Act contains summaries of E-commerce laws of the United Nations, the European Union, and more than 120 countries on six continents. At the end, the best attributes of those laws are incorporated into a model E-commerce statute for consideration for enactment by lawmakers all over the world. This is Volume 2 of the E-COMMERCE LAW TRILOGY. Volume 1, E-Commerce Law Around the World, was released in 2011; and Volume 3, Certification Authority Law Around the World, is scheduled for release in 2013. All of them will become available for purchase at Xlibris.com, Amazon.com, BarnesAndNoble.com, law bookstores and other outlets. Derived from the renowned multi-volume International Encyclopaedia of Laws, this practical guide to cyber law – the law affecting information and communication technology (ICT) – in Bulgaria covers every aspect of the subject, including intellectual property rights in the ICT sector, relevant competition rules, drafting and negotiating ICT-related contracts, electronic transactions, privacy issues, and computer crime. Lawyers who handle transnational matters will appreciate the detailed explanation of specific characteristics of practice and procedure. Following a general introduction, the book assembles its information and guidance in seven main areas of practice: the regulatory framework of the electronic communications market; software protection, legal protection of databases or chips, and other intellectual property matters; contracts with regard to software licensing and network services, with special attention to case law in this area; rules with regard to electronic evidence, regulation of electronic signatures, electronic banking, and electronic commerce; specific laws and regulations with respect to the liability of network operators and service providers and related product liability; protection of individual persons in the context of the processing of personal data and confidentiality; and the application of substantive criminal law in the area of ICT. Its succinct yet scholarly nature, as well as the practical quality of the information it provides, make this book a valuable time-saving tool for business and legal professionals alike. Lawyers representing parties with interests in Bulgaria will welcome this very useful guide, and academics and researchers will appreciate its value in the study of comparative law in this relatively new and challenging field. In less than a decade, mobile technology has revolutionized our cultures, societies, and economies by impacting both personal and professional aspects of human life. Mobile technology has therefore become the fastest diffusing technology in history, expanding and transforming existent possibilities by making technology accessible and ubiquitous. Emerging Perspectives on the Mobile Content Evolution seeks a better understanding of the centrality of mobile content in the recent and coming evolution of both the ICT ecosystem and the media industry. This publication appeals to a broad audience within the interdisciplinary field of media studies, covering topic areas such as journalism, marketing and advertising, broadcasting, information management, media management, media economics, media- and technology-related public policies, media sociology, audience/consumption studies, and arts. This publication presents a multi-disciplinary discussion through a collection of academic chapters covering topics such as mobile communications and entrepreneurship, reflection on wearables and innovation, personal and mobile healthcare, mobile journalism and innovation, and behavioral targeting in the mobile ecosystem. Digital transformation is reshaping the business arena as new, successful digital business models are increasing agility and presenting better ways to handle business than the traditional alternatives. Industry 4.0 affects everything in our daily lives and is blurring the line between the physical, the biological, and the digital. This created an environment where technology and humans are so closely integrated that it is impacting every activity within the organizations. Specifically, contracting processes and procedures are challenged to align with the new business dynamics as traditional contracts are no longer fitting today's agile and continuously changing environments. Businesses are required to facilitate faster, more secure, soft, and real-time transactions while protecting stakeholders' rights and obligations. This includes agile contracts which are dynamically handling scope changes, smart contracts that can automate rule-based functions, friction-less contracts that can facilitate different activities, and opportunity contracts that looks toward the future. Innovative and Agile Contracting for Digital Transformation and Industry 4.0 analyzes the consequences, benefits, and possible scenarios of contract transformation under the pressure of new technologies and business dynamics in modern times. The chapters cover the problems, issues, complications, strategies, governance, and risks related to the development and enforcement of digital transformation contracting practices. While highlighting topics in the area of digital transformation and contracting such as artificial intelligence, digital business, emerging technologies, and blockchain, this book is ideally intended for business, engineering, and technology practitioners and policy makers, along with practitioners, stakeholders, researchers, academicians, and students interested in understanding the scope, complexity, and importance of innovative contracts and agile contracting. The theme of this Research Companion is 'connectivity and the global reach of electroacoustic music and sonic arts made with technology'. The possible scope of such a companion in the field of electronic music has changed radically over the last 30 years. The definitions of the field itself are now broader - there is no clear boundary between 'electronic music' and 'sound art'. Also, what was previously an apparently simple divide between 'art' and 'popular' practices is now not easy or helpful to make, and there is a rich cluster of streams of practice with many histories, including world music traditions. This leads in turn to a steady undermining of a primarily Euro-American enterprise in the second half of the twentieth century. Telecommunications technology, most importantly the development of the internet in the final years of the century, has made materials, practices and experiences ubiquitous and apparently universally available - though some contributions to this volume reassert the influence and importance of local cultural practice. Research in this field is now increasingly multi-disciplinary. Technological developments are embedded in practices which may be musical, social, individual and collective. The contributors to this companion embrace technological, scientific, aesthetic, historical and social approaches and a host of hybrids – but, most importantly, they try to show how these join up. Thus the intention has been to allow a wide variety of new practices to have voice – unified through ideas of 'reaching out' and 'connecting together' – and in effect showing that there is emerging a different kind of 'global music'. This book explores the dynamic landscape in contemporary newsrooms across three continents by investigating the impact that the processes of searching, processing, and distributing data and information and the use of big data, with secure, automatic, and agile retrieval of information all have in this context. Journalistic organizations have undergone digital transformations, and only those implementing accurate transformations survive. In so doing, the book addresses the fields of e-Communication, Computer Science, and Information Science and other areas of the authors' expertise. The first five chapters focus on technical visits to investigate newsrooms' productive routines and flows in major dailies from Brazil, Costa Rica, and England. The remaining chapters consider that the news production routines are cooperative and distributed and at the same time need to be managed from different perspectives to support the convergence of digital media. Last but not least, the book also identifies an increase in ICT-based tools, with an increasing connection from new media combined with the growing trend of digital economy practices as important factors in the new landscape of digital journalism. In modern electoral processes, Information and Communication Technologies play a crucial role, whether used in voter registration, ballot casting, or processing of results. Securing these systems is a necessary step in ensuring the fairness of the democratic process. Design, Development, and Use of Secure Electronic Voting Systems analyzes current research on the integration of modern technologies with traditional democratic systems, providing a framework for designing and deploying electronic voting systems in any context or society. Stakeholders, researchers, architects, designers, and scholars interested in the use of electronic systems in government processes will use this book to gain a broader understanding of some of the latest advances in this emerging field. This review focuses on advancing the performance-management vision of the Comptroller General of the Republic of Chile (Contraloría General de la República, CGR) with a view to enhance the relevance and positive impact of its work on accountability ... Africa's Development Dynamics uses lessons from Central, East, North, Southern and West Africa to develop policy recommendations and share good practices. The 2022 edition explores how developing regional value chains can help African countries rebound from the socio-economic shocks of the COVID-19 pandemic and accelerate productive transformation. Today's diesel vehicles integrate electrical and electronic controls within all major systems, making a thorough understanding of current technology essential for success as a diesel technician. Bell's MODERN DIESEL TECHNOLOGY: ELECTRICITY AND ELECTRONICS, Second Edition, provides this understanding through clear explanations of fundamental principles, detailed coverage of the latest engines and

equipment, abundant real-world examples, and the technical accuracy and depth of detail that professional technicians demand. An engaging writing style and highly visual layout make the material easier to master, while a strong focus on practical applications and problem-solving help readers readily use what they learn in the shop. Now updated with a visually appealing, two-color design and new material to reflect the latest technology and practices, this proven guide is an essential resource for aspiring and professional diesel technicians alike. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. This book constitutes the proceedings of the First International Conference on Emerging Trends in Engineering (ICETE), held at University College of Engineering and organised by the Alumni Association, University College of Engineering, Osmania University, in Hyderabad, India on 22–23 March 2019. The proceedings of the ICETE are published in three volumes, covering seven areas: Biomedical, Civil, Computer Science, Electrical & Electronics, Electronics & Communication, Mechanical, and Mining Engineering. The 215 peer-reviewed papers from around the globe present the latest state-of-the-art research, and are useful to postgraduate students, researchers, academics and industry engineers working in the respective fields. Volume 2 presents papers on the theme “Advances in Decision Sciences, Image Processing, Security and Computer Vision – International Conference on Emerging Trends in Engineering (ICETE)”. It includes state-of-the-art technical contributions in the areas of electronics and communication engineering and electrical and electronics engineering, discussing the latest sustainable developments in fields such as signal processing and communications; GNSS and VLSI; microwaves and antennas; signal, speech and image processing; power systems; and power electronics. Market_Desc: · Electrical Engineers· Students· Professors Special Features: · The book has the step by step presentation that allows readers to fully understand each topic before moving on to the next. About The Book: This text combines the traditional areas of electric machinery with the latest in modern control and power electronics. A large number of topics have been added and revised to include state of the art coverage. Multi-machine systems, brushless motors and switched reluctance motors are now covered, as well as constant flux and constant current operation of induction motors. Additional material has been added on new solid state devices such as Insulated Gate Bipolar Transistors and MOS-Controlled Thyristors. The concept of 'employee' is arguably the most important one in labour law, defining, as it does, the scope of the discipline as a whole. This important new publication aims to develop a restatement of the concept of the employee in European labour law. The study identifies both problems and solutions that have emerged, clearly setting out comparisons between the different member states' approaches. The country reports explore both statutes and case law, tracking their contribution to legal doctrine. The objective of the restatement is to increase knowledge and gain a better understanding of one of the most crucial aspects of European labour law. Assistant Editors: - Marta Otto - Effrosyni Bakirtzi This book constitutes the refereed proceedings of the 4th International Conference on Electronic Government and the Information Systems Perspective, EGOVIS 2015, held in Valencia, Spain, in September 2015, in conjunction with DEXA 2015. The 26 revised full papers presented together with one invited talk were carefully reviewed and selected from 30 submissions. The papers are organized in the following topical sections: semantic technologies in e-government; identity management in e-government; e-government cases; open innovation and G-cloud; intelligent systems in e-government; open government; e-government solutions and approaches. This book analyses the doctrinal structure and content of secondary liability rules that hold internet service providers liable for the conduct of others, including the safe harbours (or immunities) of which they may take advantage, and the range of remedies that can be secured against such providers. Many such claims involve intellectual property infringement, but the treatment extends beyond that field of law. Because there are few formal international standards which govern the question of secondary liability, comprehension of the international landscape requires treatment of a broad range of national approaches. This book thus canvasses numerous jurisdictions across several continents, but presents these comparative studies thematically to highlight evolving commonalities and trans-border commercial practices that exist despite the lack of hard international law. The analysis presented in this book allows exploration not only of contemporary debates about the appropriate policy levers through which to regulate intermediaries, but also about the conceptual character of secondary liability rules. A practical, informative guide to banks' major weakness Legal Data for Banking defines the legal data domain in the context of financial institutions, and describes how banks can leverage these assets to optimise business lines and effectively manage risk. Legal data is at the heart of post-2009 regulatory reform, and practitioners need to deepen their grasp of legal data management in order to remain compliant with new rules focusing on transparency in trade and risk reporting. This book provides essential information for IT, project management and data governance leaders, with detailed discussion of current and best practices. Many banks are experiencing recurrent pain points related to legal data management issues, so clear explanations of the required processes, systems and strategic governance provide immediately-relevant relief. The recent financial crisis following the collapse of major banks had roots in poor risk data management, and the regulators' unawareness of accumulated systemic risk stemming from contractual obligations between firms. To avoid repeating history, today's banks must be proactive in legal data management; this book provides the critical knowledge practitioners need to put the necessary systems and practices in place. Learn how current legal data management practices are hurting banks Understand the systems, structures and strategies required to manage risk and optimise business lines Delve into the regulations surrounding risk aggregation, netting, collateral enforceability and more Gain practical insight on legal data technology, systems and migration The legal contracts between firms contain significant obligations that underpin the financial markets; failing to recognise these terms as valuable data assets means increased risk exposure and untapped business lines. Legal Data for Banking provides critical information for the banking industry, with actionable guidance for implementation. This book constitutes the refereed proceedings of the 8th International Conference on Ubiquitous Computing and Ambient Intelligence, UCAmI 2014, held in Belfast, UK, in December 2014. The 57 papers presented together with 7 papers of the workshop AmIUA 2014, 8 papers of the workshop IoT 2014, 7 papers of the workshop EUSPAI 2014, and 6 papers of the workshop VSS 2014 were carefully reviewed and selected from numerous submissions. The papers are grouped in topical sections on key application domains for ambient intelligence, human interaction in ambient intelligence, ICT instrumentation and middleware support for smart environments and objects, adding intelligence for environment adaption, and security and privacy issues in AAL. The African Continental Free Trade Area (CFTA) promises to give a significant boost to the continent's economy and, in particular, to support industrialization and structural transformation. In this context, the 8th edition of Assessing Regional Integration in Africa (ARIA VIII) looks at what will be needed to ensure that the CFTA is implemented and that intra-African trade plays a more dynamic role in contributing to economic transformation in Africa. Drawing on political economy analysis, the report analyses what kind of institutional set-up will be needed to ensure the CFTA's implementation as well as the capacity development needs at the national, regional economic community and continental levels. The report also provides an update on the expected benefits of the CFTA's implementation, as well as the usual chapter on the status of regional integration in Africa. Proven and emerging strategies for addressing document and records management risk within the framework of information governance principles and best practices Information Governance (IG) is a rapidly emerging "super discipline" and is now being applied to electronic document and records management, email, social media, cloud computing, mobile computing, and, in fact, the management and output of information organization-wide. IG leverages information technologies to enforce policies, procedures and controls to manage information risk in compliance with legal and litigation demands, external regulatory requirements, and internal governance objectives. Information Governance: Concepts, Strategies, and Best Practices reveals how, and why, to utilize IG and leverage information technologies to control, monitor, and enforce information access and security policies. Written by one of the most recognized and published experts on information governance, including specialization in e-document security and electronic records management Provides big picture guidance on the imperative for information governance and best practice guidance on electronic document and records management Crucial advice and insights for compliance and risk managers, operations managers, corporate counsel, corporate records managers, legal administrators, information technology managers, archivists, knowledge managers, and information governance professionals IG sets the policies that control and manage the use of organizational information, including social media, mobile computing, cloud computing, email, instant messaging, and the use of e-documents and records. This extends to e-discovery planning and preparation. Information Governance: Concepts, Strategies, and Best Practices provides step-by-step guidance for developing information

governance strategies and practices to manage risk in the use of electronic business documents and records. E-voting is the use of electronic means in the casting of the vote at political elections or referendums. This book provides an overview of e-voting related case-law worldwide and explains how judicial decisions impact e-voting development. With contributions by renowned experts on thirteen countries, the authors discuss e-voting both from controlled environments, such as voting machines in polling stations, and uncontrolled ones, including internet voting. Each chapter examines a group of country-specific leading judicial decisions on e-voting and their likely impact on its future development. Reference is made to emerging standards on e-voting such as the Recommendation Rec(2004)11 of the Council of Europe, the only international instrument on e-voting regulation, and to other countries' case-law. The work provides a broader, informative and easily accessible perspective on the historical, political and legal aspects of an otherwise very technical subject, and contributes to a better understanding of the significance of case law and its impact in shaping e-voting's future development. The book will be significantly useful to anyone with an interest in e-voting, in particular decision makers and officials, researchers and academia, as well as NGOs and providers of e-voting solutions. Controlling the properties of materials by modifying their composition and by manipulating the arrangement of atoms and molecules is a dream that can be achieved by nanotechnology. As one of the fastest developing and innovative -- as well as well-funded -- fields in science, nanotechnology has already significantly changed the research landscape in chemistry, materials science, and physics, with numerous applications in consumer products, such as sunscreens and water-repellent clothes. It is also thanks to this multidisciplinary field that flat panel displays, highly efficient solar cells, and new biological imaging techniques have become reality. This second, enlarged edition has been fully updated to address the rapid progress made within this field in recent years. Internationally recognized experts provide comprehensive, first-hand information, resulting in an overview of the entire nano-micro world. In so doing, they cover aspects of funding and commercialization, the manufacture and future applications of nanomaterials, the fundamentals of nanostructures leading to macroscale objects as well as the ongoing miniaturization toward the nanoscale domain. Along the way, the authors explain the effects occurring at the nanoscale and the nanotechnological characterization techniques. An additional topic on the role of nanotechnology in energy and mobility covers the challenge of developing materials and devices, such as electrodes and membrane materials for fuel cells and catalysts for sustainable transportation. Also new to this edition are the latest figures for funding, investments, and commercialization prospects, as well as recent research programs and organizations.

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