

## 2018 Commission Work Programme Annex I New Initiatives

This book presents the latest advances in thermal energy storage development at both the materials and systems level. It covers various fields of application, including domestic, industrial and transport, as well as diverse technologies, such as sensible, latent and thermochemical. The contributors introduce readers to the main performance indicators for thermal storage systems, and discuss thermal energy storage (TES) technologies that can be used to improve the efficiency of energy systems and increase the share of renewable energy sources in numerous fields of application. In addition to the latest advances, the authors discuss the development and characterization of advanced materials and systems for sensible, latent and thermochemical TES, as well as the TES market and practical applications. They also report on and assess the feasibility of uniform characterization protocols and main performance indicators, compared to previous attempts to be found in the literature. The book will help to increase awareness of thermal energy storage technologies in both the academic and industrial sectors, while also providing experts new tools to achieve a uniform approach to thermal energy storage characterization methods. It will also be of interest to all students and researchers seeking an introduction to recent innovations in TES technologies.

Exploring potential scenarios of artificial intelligence regulation which prevent automated reality harming individual human rights or social values, this book reviews current debates surrounding AI regulation in the context of the emerging risks and accountabilities. Considering varying regulatory methodologies, it focuses mostly on EU's regulation in light of the comprehensive policy making process taking place at the supranational level. Taking an ethics and humancentric approach towards artificial intelligence as the bedrock of future laws in this field, it analyses the relations between fundamental rights impacted by the development of artificial intelligence and ethical standards governing it. It contains a detailed and critical analysis of the EU's Ethic Guidelines for Trustworthy AI, pointing at its practical applicability by the interested parties. Attempting to identify the most transparent and efficient regulatory tools that can assure social trust towards AI technologies, the book provides an overview of horizontal and sectoral regulatory approaches, as well as legally binding measures stemming from industries' self-regulations and internal policies.

This volume of Eurasian Studies in Business and Economics presents selected theoretical and empirical papers from the 25th Eurasia Business and Economics Society (EBES) Conference, held in Berlin, Germany, in May 2018. Covering diverse areas of business and management from different geographic regions, the book focuses on current topics such as consumer engagement, consumer loyalty, travel blogging, and AirBnB's marketing communication strategy, as well as healthcare project evaluation and Industry 4.0. It also includes related studies that analyze accounting and finance

aspects like bank reliability and the bankruptcy risks of equity crowdfunding start-ups.

The dynamic and complex system of European Union policymaking is analysed in this new edition of a much-praised textbook. It offers the most integrated understanding of EU policy available. Major approaches to policymaking – including intergovernmentalism, neofunctionalism, supranationalism and critical theory – are presented and supplemented with the authors' own theoretical model, federal integration, to create a comprehensive evaluation of the EU's interests and actors in key policy domains. The text covers the EU's main policy areas – including those on the single market, Economic and Monetary Union, foreign policy, migration and border control, social and regional policies, and the budget – locating them in this wider theoretical framework. As such, it is the key introduction to the subject for students of European Politics at undergraduate and postgraduate levels. New to this Edition: - Each chapter rewritten, many extensively, throughout - New chapters on migration and border control, competition policy, and social and cohesion policies. - New illustrative material and many new examples - Each chapter now includes a Guide to Further Reading

The CEFR Companion volume broadens the scope of language education. It reflects academic and societal developments since the publication of the Common European Framework of Reference for Languages (CEFR) and updates the 2001 version. It owes much to the contributions of members of the language teaching profession across Europe and beyond. This volume contains: ? an explanation of the key aspects of the CEFR for teaching and learning; ? a complete set of updated CEFR descriptors that replaces the 2001 set with: - modality-inclusive and gender-neutral descriptors; - added detail on listening and reading; - a new Pre–A1 level, plus enriched description at A1 and C levels; - a replacement scale for phonological competence; - new scales for mediation, online interaction and plurilingual/pluricultural competence; - new scales for sign language competence; ? a short report on the four-year development, validation and consultation processes. The CEFR Companion volume represents another step in a process of engagement with language education that has been pursued by the Council of Europe since 1971 and which seeks to: ? promote and support the learning and teaching of modern languages; ? enhance intercultural dialogue, and thus mutual understanding, social cohesion and democracy; ? protect linguistic and cultural diversity in Europe; and ? promote the right to quality education for all.

Respected as the definitive textbook on the subject, this is the stand-alone guide to EU law. The world-renowned authors offer the ideal balance of commentary, key cases, and materials to provide the most authoritative coverage and analysis. This UK version also includes sections showing how principles apply or don't apply to the UK post-Brexit.

The focus of this monograph is on the evolution of EU policies designed to realize specific fundamental rights, and how

this is delivered in EU equality law.

This brochure presents a general factual overview of current EU efforts aiming to contribute to sustainable development of forestry, both within Europe and also at global level through the EU development co-operation policy. The objective is to present in simple terms the main ongoing EU actions and activities related to the forest sector, which are complementing and reinforcing the forest policies of the Member States.

Physicists are very smart people. Still, when it comes to moving their ideas from university to market, they often lack the basic set of know-hows that could help them succeed in the technology transfer process. To fill this gap, *Entrepreneurship for Physicists: A Practical Guide to Move Ideas from University to Market* offers a concise analysis of the key ingredients that enable entrepreneurs to bring added value to their customers. After a short discussion on why university physicists should pay more attention to this aspect of their professional life, the book dives into a set of theories, models, and tools that could help an academic scientist transform an idea into customer added value. The reader will be introduced to effectuation theory, internal resource analysis, external landscape analysis, value capture, lean startup method, business canvases, financial projections, and to a series of topics that, albeit often neglected, do play a fundamental role in technology transfer, such as trust, communication, and persuasion. In the last chapter, the book explains how most of the concepts discussed actually find application in the career of scientists in a much broader sense.

Regular physical activity is proven to help prevent and treat noncommunicable diseases (NCDs) such as heart disease, stroke, diabetes and breast and colon cancer. It also helps to prevent hypertension, overweight and obesity and can improve mental health, quality of life and well-being. In addition to the multiple health benefits of physical activity, societies that are more active can generate additional returns on investment including a reduced use of fossil fuels, cleaner air and less congested, safer roads. These outcomes are interconnected with achieving the shared goals, political priorities and ambition of the Sustainable Development Agenda 2030. The new WHO global action plan to promote physical activity responds to the requests by countries for updated guidance, and a framework of effective and feasible policy actions to increase physical activity at all levels. It also responds to requests for global leadership and stronger regional and national coordination, and the need for a whole-of-society response to achieve a paradigm shift in both supporting and valuing all people being regularly active, according to ability and across the life course. The action plan was developed through a worldwide consultation process involving governments and key stakeholders across multiple sectors including health, sports, transport, urban design, civil society, academia and the private sector.

Sustainable Forestry and the European Union Initiatives of the European Commission

The essays in this open access volume identify the key ingredients for success in capitalizing on public investments in scientific projects and the development of large-scale research infrastructures. Investment in science – whether in education and training or through public funding for developing new research tools and technologies – is a crucial priority. Authors from big research

laboratories/organizations, funding agencies and academia discuss how investing in science can produce societal benefits as well as identifying future challenges for scientists and policy makers. The volume cites different ways to assess the socio-economic impact of Research Infrastructures and their role as hubs of global collaboration, creativity and innovation. It highlights the different benefits stemming from fundamental research at the local, national and global level, while also inviting us to rethink the notion of “benefit” in the 21st century. Public investment is required to maintain the pace of technological and scientific advancements over the next decades. Far from advocating a radical transformation and massive expansion in funding, the authors suggest ways for maintaining a strong foundation of science and research to ensure that we continue to benefit from the outputs. The volume draws inspiration from the first “Economics of Big Science” workshop, held in Brussels in 2019 with the aim of creating a new space for dialogue and interaction between representatives of Big Science organizations, policy makers and academia. It aspires to provide useful reading for policy makers, scientists and students of science, who are increasingly called upon to explain the value of fundamental research and adopt the language and logic of economics when engaging in policy discussions.

Groups committing acts of terrorism have adapted their means of financing to elude detection since the 9/11 attacks in the United States. Surveying the global community’s multi-year effort to cut off terrorist funding, this volume offers a much-needed analysis of a complex, widely discussed, yet poorly understood subject. While books on terrorism have touched upon the topic, this is the first comprehensive, balanced, and scholarly overview of terrorist financing, its methods, and efforts to counter it. Bringing together leading analysts of terrorism, international relations, global finance, law, and criminology, *Countering the Financing of Terrorism* provides a critical assessment of the international effort to restrict terrorist financing. It evaluates the costs and benefits and offers recommendations for more effective policies for the future.

WHO has published a global TB report every year since 1997. The main aim of the report is to provide a comprehensive and up-to-date assessment of the TB epidemic, and of progress in prevention, diagnosis and treatment of the disease at global, regional and country levels. This is done in the context of recommended global TB strategies and targets endorsed by WHO's Member States and broader development goals set by the United Nations (UN). The 2018 edition of the global TB report was released on 18 September, in the lead up to the first-ever UN High Level Meeting on TB on 26 September 2018.

This Intergovernmental Panel on Climate Change Special Report (IPCC-SREX) explores the challenge of understanding and managing the risks of climate extremes to advance climate change adaptation. Extreme weather and climate events, interacting with exposed and vulnerable human and natural systems, can lead to disasters. Changes in the frequency and severity of the physical events affect disaster risk, but so do the spatially diverse and temporally dynamic patterns of exposure and vulnerability. Some types of extreme weather and climate events have increased in frequency or magnitude, but populations and assets at risk have also increased, with consequences for disaster risk. Opportunities for managing risks of weather- and climate-related disasters exist or can be developed at any scale, local to international. Prepared following strict IPCC procedures, SREX is an invaluable assessment for anyone interested in climate extremes, environmental disasters and adaptation to climate change,

including policymakers, the private sector and academic researchers.

This book explores the specific role that glazing technologies play within the world of smart architecture as important components of contemporary and future sustainable architectural and technological research. Smart Architecture begins with a definition of the concept of smart in architecture and examines how innovative technologies and materials have shaped buildings over the years. The author then provides a supporting database of contemporary smart architecture mapping adopted strategies, recognizing common patterns, and evaluating current and future trends in the context of smart building envelopes, energy efficiency, and the development of high-potential innovative building components. The book proceeds with a focus on the specific role that glazing technologies play in this framework and provides a systematic methodology to quantify options for the effective integration of transparent building components within advanced and innovative building envelope systems. Presents an up-to-date examination of emerging materials for building envelope Evaluates state-of-the-art of technologies for smart adaptive building envelopes Provides a toolbox for the design and integration of transparent building components.

This book provides a multilevel system analysis of performance in the production of global public goods, as well as a tailored analysis of the specific features of performance management systems in international organizations. The book compares performance management systems across a number of international organizations, including the European Union and the Organization for Economic Cooperation and Development (OECD).

Offering a comprehensive exploration of EU taxation law, this engaging Research Handbook investigates the associated legal principles in the context of both direct and indirect taxation. The important issues and debates arising from these general principles are expertly unpicked, with leading scholars examining the status quo as well as setting out a clear agenda for future research. The European Union is creating a Financial Union with a European Banking Union and a Capital Markets Union in reaction to lessons learned from incomplete financial markets integration, the Global Financial Crisis and European Sovereign Debt Crisis. This book critically analyses these projects for a more integrated, resilient and sustainable financial system at a time when the United Kingdom as the member state with the most developed capital markets and the leading global and European financial center, the City of London, is leaving the Union. Neoliberal financial globalization and markets integration policies have led to finance-led capitalism that caused the crises. By building on pre-crises integration ideas, the Union revives and expands the reach of capital markets-based financing and shadow banking. The book discusses the consequences of deeper integration and the future of European financial centers advocating an alternative financial markets integration based on theories explaining financialization and finance-led capitalism.

IPCC Report on sources, capture, transport, and storage of CO<sub>2</sub>, for researchers, policy-makers and engineers.

Exploring obstacles to effective compensation of victims of competition infringements, this book categorises the types of victims harmed and the types of losses arisen from these infringements to identify to what extent there is a need for enhanced private competition law enforcement in the European Union (EU) and the best way to address this need. It shows that there is a genuine

need for facilitating consumer damages actions and that consumer claims are the only claims that can be pursued in a collective redress action. In order to compensate consumers and overcome barriers to effective enforcement of their right to damages, it structures a collective redress action for consumers by considering the following elements: i. the formation of the group, ii. the type of representative party iii. funding mechanisms and iv. calculation and distribution of damages.

This is the United Nations definitive report on the state of the world economy, providing global and regional economic outlook for 2020 and 2021. Produced by the Department of Economic and Social Affairs, the five United Nations regional commissions, the United Nations Conference on Trade and Development, with contributions from the UN World Tourism Organization and other intergovernmental agencies.

The International VAT/GST Guidelines present a set of internationally agreed standards and recommended approaches for the consistent application of VAT to international trade, with a particular focus on trade in services and intangibles.

This new edition incorporates revised guidance from H.M Treasury which is designed to promote efficient policy development and resource allocation across government through the use of a thorough, long-term and analytically robust approach to the appraisal and evaluation of public service projects before significant funds are committed. It is the first edition to have been aided by a consultation process in order to ensure the guidance is clearer and more closely tailored to suit the needs of users.

The sixteenth edition of Social policy in the European Union: state of play has a triple ambition. First, it provides easily accessible information to a wide audience about recent developments in both EU and domestic social policymaking. Second, the volume provides a more analytical reading, embedding the key developments of the year 2014 in the most recent academic discourses. Third, the forward-looking perspective of the book aims to provide stakeholders and policymakers with specific tools that allow them to discern new opportunities to influence policymaking. In this 2015 edition of Social policy in the European Union: state of play, the authors tackle the topics of the state of EU politics after the parliamentary elections, the socialisation of the European Semester, methods of political protest, the Juncker investment plan, the EU's contradictory education investment, the EU's contested influence on national healthcare reforms, and the neoliberal Trojan Horse of the Transatlantic Trade and Investment Partnership (TTIP).

Das primäre Erkenntnisinteresse des Buches besteht darin, Strategien der Europäischen Kommission beim Umgang mit dem Phänomen der Politisierung in der EU-Gesetzgebung zu erforschen. In einer Fallstudie zur Amtszeit von Präsident Jean-Claude Juncker analysieren die Autoren des Sammelbandes, wie die EU-Kommission zwischen 2014 und 2019 bestimmte politische Schwerpunkte gesetzt hat, um ihre Agenda voranzutreiben. Gegenstand der Analyse sind die zehn politischen Prioritäten der Juncker-Kommission aus den jährlichen Arbeitsprogrammen seit 2014. Ausgangspunkt der Studie ist das von Juncker proklamierte Selbstverständnis als "politischer Kommission". Die Bewertung der "Politisierung" integrationspolitischer Vorhaben fällt dabei ambivalent aus: Auf der einen Seite hat die Juncker-Kommission politisierte Themen gezielt aufgegriffen und als Gelegenheiten zur politischen Führung sowie zur Schärfung des eigenen institutionellen Profils genutzt. Auf der anderen Seite sah

sich die EU-Kommission zuweilen gezwungen, bei Krisen und Kontroversen Schadensbegrenzung zu betreiben. Mit Beiträgen von Matthieu Bertrand, Christoph Bierbrauer, Grigoriani Bougatsa, Sarah Gansen, Sanni Kunnas, Andreas Marchetti, Katarzyna Nowicka, Thomas Panayotopoulos, Dominique Roch, Martin Selmayr, Katherine Simpson, Robert Stüwe, Henri De Waele, Liska Wittenberg.

This book constitutes the thoroughly refereed proceedings of the 15th Italian Research Conference on Digital Libraries, IRCDL 2019, held in Pisa, Italy, in January/February 2019. The 22 full papers and 5 short papers presented were carefully selected from 42 submissions. The papers are organized in topical sections on information retrieval, digital libraries and archives, information integration, open science, and data mining.

"Peremptory Norms of General International Law (Jus Cogens) : Disquisitions and Dispositions brings together an impressive collection of authors addressing both conceptual issues and challenges relating to peremptory norms of general international. Covered themes in the edited collection include concepts relating to the identification of peremptory norms, consequences of peremptory norms, critiques of peremptory norms, the relationship between peremptory norms and particular areas of international law as well as the peremptory status of particular norms of international law. The contributions are presented from an array of scholars and experts with different perspective, thus providing an interesting mosaic of thoughts on peremptory norms. Written against the backdrop of the ongoing work of the International Law Commission, it exposes some tensions inherent in the jus cogens"--

Social justice is a matter of life and death. It affects the way people live, their consequent chance of illness, and their risk of premature death. We watch in wonder as life expectancy and good health continue to increase in parts of the world and in alarm as they fail to improve in others.

This year's report shows that after an unprecedented period of success in global malaria control, progress has stalled. Data from 2015-2017 highlight that no significant progress in reducing global malaria cases was made in this period. There were an estimated 219 million cases and 435,000 related deaths in 2017. The World Malaria Report 2018 draws on data from 90 countries and areas with ongoing malaria transmission. The information is supplemented by data from national household surveys and databases held by other organizations.

This book explores the phenomenon of researchers at risk: that is, the experiences of scholars whose research topics require them to engage with diverse kind of dangers, uncertainties or vulnerabilities. This risk may derive from working with variously marginalised individuals or groups, or from being members of such groups themselves. At other times, the risk relates to particular economic or environmental conditions, or political forces influencing the specific research fields in which they operate. This book argues for the need to reconceptualise – and thereby to reimagine – the phenomenon of researchers' risks, particularly when those risks are perceived to affect, and even to threaten the researchers. Drawing on a diverse and global range case studies including Aotearoa New Zealand, Australia, Bal?chist?n, Cyprus, and Germany, the chapters call for the need to identify effective

strategies for engaging proactively with these risks to address precarity, jeopardy and uncertainty.

This book provides an accessible introduction to selected new issues in transnational law, and connects them to existing theoretical debates on transnational business regulation. More specifically, (i) it introduces the argument about the evolving character of contemporary international business regulation; (ii) it provides an overview of some of the main fields of law that are currently important for firms that operate across borders; and (iii) it sets out an interpretive framework for making sense of disparate developments occurring across a number of jurisdictions, among which are the form of regulation and style of enforcement, issues of legal certainty, and behavioural aspects of regulation. The selected topics are indicative of some key issues confronting businesses looking to operate across national borders, as well as policy makers seeking to introduce and enforce meaningful regulatory standards in an increasingly global society. Topics include: consumer law; product liability; warranty law and obsolescence; collective redress; alternative dispute resolution; corporate wrongdoing; corporate governance; and e-commerce. This timely work offers a novel perspective on transnational business law and examines a range of legal issues that preoccupy companies operating transnationally. This book is intended not only for law students looking for an introduction, overview or commentary on the contemporary state of international business law, but also for anyone looking for an introduction to the regulation of business in a global, inter-connected economy.

This volume, developed by the Observatory together with OECD, provides an overall conceptual framework for understanding and applying strategies aimed at improving quality of care. Crucially, it summarizes available evidence on different quality strategies and provides recommendations for their implementation. This book is intended to help policy-makers to understand concepts of quality and to support them to evaluate single strategies and combinations of strategies.

European integration has transformed the social life of European citizens. Daily life and work no longer take place primarily in a local and national context, but increasingly in a European and transnational frame – a process of ‘horizontal Europeanisation’ which, while increasing the life chances of European citizens, also brings about conflicts among them. This book focuses on processes of Europeanisation in the academic, bureaucratic, professional and associational field, as well as on the Europeanisation of solidarity, networks and social inequalities. Drawing on detailed empirical studies and attending to the reinforcement of centre-periphery structures in Europe, it analyses the dynamics of horizontal Europeanisation processes, highlighting the crucial role of national practices and perceptions in a transnational context, as well as the related conflicts between the winners and losers in this process. As such, it will appeal to scholars of sociology and political science with interests in European integration, social change and social stratification.

This book provides a current analysis of the legal and ethical challenges in preparing for and responding to chemical, biological, radiological, nuclear and explosive (CBRNE) crises. From past events like the Chernobyl nuclear incident in

Russia or the Bhopal chemical calamity in India, to the more recent tsunami and nuclear accident in Japan or the Ebola crisis in Africa, and with the on-going threat of bioterrorism, the need to be ready to respond to CBRNE crises is uncontroversial. What is controversial is whether we are on a path that adequately prepares us for the next event. The ethical and legal scholars in this volume hold that much work remains to be done and offer this book to stimulate further reflection and dialogue around CBRNE crises. This is an indispensable book for both students and scholars of bioethics, international law, public health, as well as for regulators and administrators developing policy and legislation related to public health planning and emergency responses.

In the absence of substitutes, the use of blood components remains essential in therapy. This guide contains a compendium of measures designed to ensure the safety, efficacy and quality of blood components and is particularly intended for all those working in blood transfusion services. In accordance with the approach recommended by the Council of Europe in this field, it is based on the premise of voluntary, non-remunerated blood donation. It describes the different blood components and gives information on their clinical indications and possible side effects.

This publication contains the following four parts: A model Competent Authority Agreement (CAA) for the automatic exchange of CRS information; the Common Reporting Standard; the Commentaries on the CAA and the CRS; and the CRS XML Schema User Guide.

The Climate Change 2007 volumes of the Fourth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) provide the most comprehensive and balanced assessment of climate change available. This IPCC Working Group II volume provides a completely up-to-date scientific assessment of the impacts of climate change, the vulnerability of natural and human environments, and the potential for response through adaptation. Written by the world's leading experts, the IPCC volumes will again prove to be invaluable for researchers, students, and policymakers, and will form the standard reference works for policy decisions for government and industry worldwide.

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