

E Lity Roadmap For The Eu Battery Industry

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Finding What Works in Health Care - Institute of Medicine 2011-07-20

Healthcare decision makers in search of reliable information that compares health interventions increasingly turn to systematic reviews for the best summary of the evidence. Systematic reviews identify, select, assess, and synthesize the findings of similar but separate studies, and can help clarify what is known and not known about the potential benefits and harms of drugs, devices, and other healthcare services.

Systematic reviews can be helpful for clinicians who want to integrate research findings into their daily practices, for patients to make well-informed choices about their own care, for professional medical societies and other organizations that develop clinical practice guidelines. Too often systematic reviews are of uncertain or poor quality. There are no universally accepted standards for developing systematic reviews leading to variability in how conflicts of interest and biases are handled, how evidence is appraised, and the overall scientific rigor of the process. In *Finding What Works in Health Care* the Institute of Medicine (IOM) recommends 21 standards for developing high-quality systematic reviews of comparative effectiveness research. The standards address the entire systematic review process from the initial steps of formulating the topic and building the review team to producing a detailed final report that synthesizes what the evidence shows and where knowledge gaps remain. *Finding What Works in Health Care* also proposes a framework for improving the quality of the science underpinning systematic reviews. This

book will serve as a vital resource for both sponsors and producers of systematic reviews of comparative effectiveness research.

A Framework for Science, Technology and Innovation Policy Reviews - United Nations Conference on Trade and Development (UNCTAD) 2020-06-23

This publication provides a guide to the thinking that underpins the Science, Technology and Innovation Policy (STIP) Review programme of UNCTAD within the context of sustainable development and the 2030 Agenda. It has been written primarily for Member State governments that are considering or implementing STIP reviews as well as all those involved in UNCTAD intergovernmental mechanisms including the Commission on Science and Technology for Development (CSTD). It outlines the framework, the methods and the various possible steps in the implementation process of STIP Reviews and their expected short- and medium-term outcomes.

Oxide Electronics - Asim K. Ray 2021-04-12
Oxide Electronics Multiple disciplines converge in this insightful exploration of complex metal oxides and their functions and properties Oxide Electronics delivers a broad and comprehensive exploration of complex metal oxides designed to meet the multidisciplinary needs of electrical and electronic engineers, physicists, and material scientists. The distinguished author eschews complex mathematics whenever possible and focuses on the physical and functional properties of metal oxides in each chapter. Each of the sixteen chapters featured within the book begins with an abstract and an

introduction to the topic, clear explanations are presented with graphical illustrations and relevant equations throughout the book. Numerous supporting references are included, and each chapter is self-contained, making them perfect for use both as a reference and as study material. Readers will learn how and why the field of oxide electronics is a key area of research and exploitation in materials science, electrical engineering, and semiconductor physics. The book encompasses every application area where the functional and electronic properties of various genres of oxides are exploited. Readers will also learn from topics like: Thorough discussions of High-k gate oxide for silicon heterostructure MOSFET devices and semiconductor-dielectric interfaces An exploration of printable high-mobility transparent amorphous oxide semiconductors Treatments of graphene oxide electronics, magnetic oxides, ferroelectric oxides, and materials for spin electronics Examinations of the calcium aluminate binary compound, perovskites for photovoltaics, and oxide 2Degs Analyses of various applications for oxide electronics, including data storage, microprocessors, biomedical devices, LCDs, photovoltaic cells, TFTs, and sensors Suitable for researchers in semiconductor technology or working in materials science, electrical engineering, and physics, Oxide Electronics will also earn a place in the libraries of private industry researchers like device engineers working on electronic applications of oxide electronics. Engineers working on photovoltaics, sensors, or consumer electronics will also benefit from this book.

Liability of Legal Persons for Offences in the EU - Gert Vermeulen 2012

Discussions of the possibility to attribute liability to legal persons for committing offenses are far from new. The EU landscape however is scattered. Although there are obligations for the Member States to introduce liability for legal persons committing offenses, diversity remains as to: the offenses that may trigger liability * the legal persons that may be held liable * the attribution theories and mechanisms used * the type of liability, which may be either penal, administrative, or civil * the sanctions that legal persons may incur. Consistent policy making

requires an identification of the main commonalities and differences in view of being able to adequately reflect them in cross-national policy initiatives. Hence, the European Commission launched a call for tender for a study on the issue, which was awarded to the Institute for International Research on Criminal Policy (IRCP). The results are published in this book. Based on comparative legal analysis in the EU27, recommendations are formulated relating to the EU approximation policy (amongst others to reconsider the concept of a 'legal person' and to look into the need for specific 'legal person'-offenses), the functioning of mutual recognition (amongst others to extend the current mutual recognition instrumentarium), the exchange of information (amongst others to develop a criminal records policy), and procedural safeguards (amongst others to secure equivalent protection outside a criminal liability context). In other words, a helicopter view is taken to ensure consistent EU policy making. (Series: Institute for International Research on Criminal Policy [IRCP] - Vol. 44) Research EU - 2009-11

Climate Mitigation and Adaptation in China - Jun Fu 2021-10-29

Climate change is a huge challenge to humanity in the 21st century. In view of China's recent pledge to the international community to peak carbon emissions before 2030 and achieve carbon neutrality by 2060, this book examines climate mitigation and adaptation efforts in China through the prism of the steel sector, and it does so from three interrelated perspectives, i.e., policy, technology, and market. The book argues that in developing the country's strategy towards green growth, over the years there has been a positive and interactive relationship between China's international commitments and domestic agenda setting in mitigation and adaptation to the impact of climate change. To illustrate China's efforts, two special areas, i.e., carbon capture, utilization and storage (CCUS) and emissions-trading system (ETS), have received focused examination. Along the spectrum of low-carbon, zero-carbon, and negative-carbon strategies, this study ends with a simulation model which outlines different policy scenarios, challenges, and uncertainties,

as China moves further on, trying to achieve carbon neutrality in 2060. The book will be of interest to scholars, policy-makers, and business executives who want to understand China's growing role in the world.

Enhancing the Resilience of the Nation's Electricity System - National Academies of Sciences, Engineering, and Medicine 2017-10-25
Americans' safety, productivity, comfort, and convenience depend on the reliable supply of electric power. The electric power system is a complex "cyber-physical" system composed of a network of millions of components spread out across the continent. These components are owned, operated, and regulated by thousands of different entities. Power system operators work hard to assure safe and reliable service, but large outages occasionally happen. Given the nature of the system, there is simply no way that outages can be completely avoided, no matter how much time and money is devoted to such an effort. The system's reliability and resilience can be improved but never made perfect. Thus, system owners, operators, and regulators must prioritize their investments based on potential benefits. *Enhancing the Resilience of the Nation's Electricity System* focuses on identifying, developing, and implementing strategies to increase the power system's resilience in the face of events that can cause large-area, long-duration outages: blackouts that extend over multiple service areas and last several days or longer. Resilience is not just about lessening the likelihood that these outages will occur. It is also about limiting the scope and impact of outages when they do occur, restoring power rapidly afterwards, and learning from these experiences to better deal with events in the future.

Digital Skills - Alexander J. A. M. van Deursen 2014-07-10

The first book to systematically discuss the skills and literacies needed to use digital media, particularly the Internet, van Dijk and van Deursen's clear and accessible work distinguishes digital skills, analyzes their roles and prevalence, and offers solutions from individual, educational, sociological, and policy perspectives.

Institutionalizing Intersectionality - A. Krizsan 2012-07-31

An exploration of the ways that multiple inequalities are being addressed in Europe. Using country-based and region-specific case studies it provides an innovative comparative analysis of the multidimensional equality regimes that are emerging in Europe, and reveals the potential that these have for institutionalizing intersectionality.

Urban Europe - Mariana M. Koceva 2016
Statistical information is an important tool for analysing changing patterns of urban development and the impact that policy decisions have on life in our cities, towns and suburbs. *Urban Europe - statistics on cities, towns and suburbs* provides detailed information for a number of territorial typologies that can be used to paint a picture of urban developments and urban life in the EU Member States, as well as EFTA and candidate countries. Each chapter presents statistical information in the form of maps, tables and figures, accompanied by a description of the policy context and a set of main findings. The publication is broken down into two parts : the first treats topics under the heading of city and urban developments, while the second focuses on the people in cities and the lives they lead. Overall there are 12 main chapters, covering : the urban paradox, patterns of urban and city developments, the dominance of capital cities, smart cities, green cities, tourism and culture in cities, living in cities, working in cities, housing in cities, foreign-born persons in cities, poverty and social exclusion in cities, as well as satisfaction and the quality of life in cities.

Aquaculture zoning, site selection and area management under the ecosystem approach to aquaculture - Food and Agriculture Organization of the United Nations 2017

The ecosystem approach to aquaculture provides the conceptual guideline for spatial planning and management. This publication describes the major steps related to these activities. The rationale for and objectives of each step, the ways (methodologies) to implement it, and the means (tools) that are available to enable a methodology are described in a stepwise fashion. Recommendations to practitioners and policy-makers are provided. A separate policy brief accompanies this paper. The benefits from spatial planning and management are numerous

and include higher productivity and returns for investors, and more effective mitigation of environmental, economic and social risks, the details of which are provided in this paper.

Proceedings of the ... International Symposium on Remote Sensing of Environment - 2009

Новітні комп'ютерні технології - М. І. Жалдак
2018-05-14

Матеріали випуску присвячені питанням моделювання інтелектуальних систем, комп'ютерного моделювання у навчанні природничо-математичних та соціально-гуманітарних дисциплін, теорії та методики використання ІКТ в освіті, формування і розвитку відкритого освітньо-наукового середовища. Для науковців, працівників органів управління освітою, викладачів та студентів закладів вищої освіти, вчителів та аспірантів, для всіх тих, кого цікавлять історія, сучасні підходи до дослідження та тенденції розвитку комп'ютерного моделювання та інформаційних технологій в освіті.

Explanatory Report on Protocol No. 7 to the Convention for the Protection of Human Rights and Fundamental Freedoms - Council of Europe 1985-01-01

EHealth Portfolio of Projects - 2007

Recoge: Sixth framework programme research and development - The ICT for health unit working towards the Seventh Framework Programme - Personal health management systems and services based on biosensors - Tools for health professionals - Biomedical informatics - FP6 Studies.

Health 2020 - Who Regional Office for Europe
2014-05-30

In 2012, the WHO Regional Committee for Europe approved Health 2020 in two forms. This publication gives both. The shorter policy framework provides European politicians and policy-makers with Health 2020's main values and principles, and key strategic advice to support action for health and well-being. The longer policy framework and strategy give more detail in terms of evidence and practice. It has two strategic objectives, constructed around equity, gender and human rights and improved

governance for health. It is aimed at those committed to improving health, well-being and health equity, in a way that is sensitive to each country's situation and political and organisational circumstances. It is a "living" guide to policies and strategies. Addressing these questions is as much a political as a scientific endeavour and Health 2020 puts strong emphasis on political commitment, as well as professional expertise and the engagement of civil society. Focused on "solutions", it offers practical and achievable, yet flexible, policy options capable politically of being successfully implemented in the individual context of each country.

The Circular Economy in Europe - Zora Kovacic 2019-12-12

The Circular Economy in Europe presents an overview and a critical discussion on how circularity is conceived, imagined, and enacted in current EU policy-making. In 2013, the idea of a circular economy entered the stage of European policy-making in the efforts to reconcile environmental and economic policy objectives. In 2019 the European Commission declared in a press release that the Circular Economy Action Plan has been delivered. The level of circularity in the European economy, however, has remained the same. Bringing together perspectives from social sciences, environmental economics and policy analysis, The Circular Economy in Europe provides a critical analysis of policies and promises of the next panacea for growth and sustainability. The authors provide a theoretical and empirical basis to discuss how contemporary societies conceive their need to re-organise production and consumption and explores the messy assemblage of institutions, actors, waste streams, biophysical flows, policy objectives, scientific disciplines, values, expectations, promises and aspirations involved. This book is essential reading for all those interested in understanding how ideas about the circular economy emerged historically, how they gained traction and are used in policy processes, and what the practical challenges in implementing this policy are.

An Agenda for a Growing Europe - André Sapir 2004-03-04

This book is the report of a high-level group commissioned by the President of the European

Commission to review the EU economic system and propose a blueprint for an economic system capable of delivering faster growth along with stability and cohesion. It assesses the EU's economic performance, and more.

Digitising the Industry - Internet of Things Connecting the Physical, Digital and Virtual Worlds - Peter Friess 2016-07-07

This book provides an overview of the current Internet of Things (IoT) landscape, ranging from the research, innovation and development priorities to enabling technologies in a global context. A successful deployment of IoT technologies requires integration on all layers, be it cognitive and semantic aspects, middleware components, services, edge devices/machines and infrastructures. It is intended to be a standalone book in a series that covers the Internet of Things activities of the IERC - Internet of Things European Research Cluster from research to technological innovation, validation and deployment. The book builds on the ideas put forward by the European Research Cluster and the IoT European Platform Initiative (IoT-EPI) and presents global views and state of the art results on the challenges facing the research, innovation, development and deployment of IoT in the next years. The IoT is bridging the physical world with virtual world and requires sound information processing capabilities for the "digital shadows" of these real things. The research and innovation in nanoelectronics, semiconductor, sensors/actuators, communication, analytics technologies, cyber-physical systems, software, swarm intelligent and deep learning systems are essential for the successful deployment of IoT applications. The emergence of IoT platforms with multiple functionalities enables rapid development and lower costs by offering standardised components that can be shared across multiple solutions in many industry verticals. The IoT applications will gradually move from vertical, single purpose solutions to multi-purpose and collaborative applications interacting across industry verticals, organisations and people, being one of the essential paradigms of the digital economy. Many of those applications still have to be identified and involvement of end-users including the creative sector in this innovation is

crucial. The IoT applications and deployments as integrated building blocks of the new digital economy are part of the accompanying IoT policy framework to address issues of horizontal nature and common interest (i.e. privacy, end-to-end security, user acceptance, societal, ethical aspects and legal issues) for providing trusted IoT solutions in a coordinated and consolidated manner across the IoT activities and pilots. In this, context IoT ecosystems offer solutions beyond a platform and solve important technical challenges in the different verticals and across verticals. These IoT technology ecosystems are instrumental for the deployment of large pilots and can easily be connected to or build upon the core IoT solutions for different applications in order to expand the system of use and allow new and even unanticipated IoT end uses. Technical topics discussed in the book include:

Introduction
Digitising industry and IoT as key enabler in the new era of Digital Economy
IoT Strategic Research and Innovation Agenda
IoT in the digital industrial context: Digital Single Market
Integration of heterogeneous systems and bridging the virtual, digital and physical worlds
Federated IoT platforms and interoperability
Evolution from intelligent devices to connected systems of systems by adding new layers of cognitive behaviour, artificial intelligence and user interfaces.
Innovation through IoT ecosystems
Trust-based IoT end-to-end security, privacy framework
User acceptance, societal, ethical aspects and legal issues
Internet of Things Applications

Impact Assessment in the EU - Andrea Renda 2006

The importance of ex ante and ex post impact assessment in streamlining the regulatory environment and improving the legislative process has been stressed by scholars and testified to by international best practices. The potential benefits of regulatory impact assessment are also being rediscovered by EU officials, who lose no chance to recall that the Commission's ambitious "growth and jobs" strategy heavily depends on the pervasiveness of impact assessment in the regulatory process at EU and member state level. This study, conceived for scholars and policymakers, provides an overview of the state of the art on impact assessment. It focuses on the latest

developments in the United States, UK, and EU, and presents a scorecard analysis of the Commission's extended impact assessments. The author concludes with a road map for improving the transparency, efficiency, and effectiveness of the EU Integrated Impact Assessment model.

Fundamental Approaches to Software

Engineering - Alessandra Russo 2018-04-11

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This book constitutes the proceedings of the 21st International Conference on Fundamental Approaches to Software Engineering, FASE 2018, which took place in Thessaloniki, Greece in April 2018, held as Part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2018. The 19 papers presented in this volume were carefully reviewed and selected from 63 submissions. The papers are organized in topical sections named: model-based software development; distributed program and system analysis; software design and verification; specification and program testing; family-based software development.

Smart cities - Netexplo

Commerce Business Daily - 1998-05

The Singapore Convention on Mediation - Nadja Alexander 2022-08-11

The Singapore Convention on Mediation is just beginning its life as an international legal instrument. How is it likely to fare? In the second edition of this comprehensive, article-by-article commentary, the authors provide a robust report on the features of the Convention and their implications, with an analysis of potential controversies and authoritative clarifications of particular provisions. The book's meticulous examination considers these issues and topics: international mediated settlement agreements as a new type of legal instrument in international law; types of settlement agreements that fall within the scope of the Convention; how the Convention's enforcement mechanism works; the meaning of 'international' and the absence of a seat of mediation; the Convention's approach to recognition and enforcement of international mediated settlement agreements; the grounds for refusal to grant relief under the Convention; mediator misconduct as a ground for refusal to grant

relief; the role of confidentiality in granting relief for international mediated settlement agreements; the impact of the Convention on private international law; the relationship of the Singapore Convention to other international instruments such as the UN Model Law on International Commercial Mediation and the New York Convention on Arbitration; possibilities for Contracting States to declare reservations; court decisions from around the globe on the recognition and enforceability of international mediated settlement agreements; and domestic mediation legislation including domestic laws that implement the Singapore Convention. This book takes a giant step towards relieving the inherent uncertainty associated with how this newly constituted instrument may operate, and how States may become 'Convention ready'. It is an essential reference for international lawyers, mediators and government officials as the Convention proves itself in the coming years.

Air Force Magazine - 2013-07

Four Consultations - United States. President's Commission on the Status of Women 1963

13th International Colloquium Fuels -

Nicolai Schubert 2021-11-08

With the signing of the Paris Agreement in December 2015 the United Nations explained their willingness to limit the GHG Emissions and contribute to the measures against the global warming effect. In 2019 the European Commission proposed the Green Deal and as a consequence the target to be climate neutral in 2050. In consequence the fossil based energy system has to transform into a climate-neutral energy system with renewable and sustainable energy carriers. Research on and development of alternative fuels and new production processes are ongoing to provide the technical solution. Political actions are needed to provide the economic framework for the introduction of such alternative fuel solutions. The fulfilment of the European CO2 reduction targets until 2050 needs realistic technical solutions including backwards compatible approaches for existing vehicle fleets. An economic and sustainable development towards climate neutral mobility requires a holistic view based on life cycle

assessments for the different mobility approaches including the economic impacts as well as financing options. A synergetic discussion of solutions for future fuels and powertrain technologies is needed to develop an economic pathway to a sustainable and affordable mobility of tomorrow. The challenging goal for mobility can only be achieved through an international cooperation of universities, the automobile industry, energy producers, the oil industry and the legislative bodies of the member states. The international colloquium aims to contribute to the development of a climate-neutral mobility by exchanging views on and discussing all aspects connected with the "powertrain/fuel/environment" system, including the necessary political regulations.

Cognitive Hyperconnected Digital

Transformation - Ovidiu Vermesan 2017-06-23

Cognitive Hyperconnected Digital

Transformation provides an overview of the current Internet of Things (IoT) landscape, ranging from research, innovation and development priorities to enabling technologies in a global context. It is intended as a standalone book in a series that covers the Internet of Things activities of the IERC-Internet of Things European Research Cluster, including both research and technological innovation, validation and deployment. The book builds on the ideas put forward by the European Research Cluster, the IoT European Platform Initiative (IoT-EPI) and the IoT European Large-Scale Pilots Programme, presenting global views and state-of-the-art results regarding the challenges facing IoT research, innovation, development and deployment in the next years.

Hyperconnected environments integrating industrial/business/consumer IoT technologies and applications require new IoT open systems architectures integrated with network architecture (a knowledge-centric network for IoT), IoT system design and open, horizontal and interoperable platforms managing things that are digital, automated and connected and that function in real-time with remote access and control based on Internet-enabled tools. The IoT is bridging the physical world with the virtual world by combining augmented reality (AR), virtual reality (VR), machine learning and artificial intelligence (AI) to support the

physical-digital integrations in the Internet of mobile things based on sensors/actuators, communication, analytics technologies, cyber-physical systems, software, cognitive systems and IoT platforms with multiple functionalities. These IoT systems have the potential to understand, learn, predict, adapt and operate autonomously. They can change future behaviour, while the combination of extensive parallel processing power, advanced algorithms and data sets feed the cognitive algorithms that allow the IoT systems to develop new services and propose new solutions. IoT technologies are moving into the industrial space and enhancing traditional industrial platforms with solutions that break free of device-, operating system- and protocol-dependency. Secure edge computing solutions replace local networks, web services replace software, and devices with networked programmable logic controllers (NPLCs) based on Internet protocols replace devices that use proprietary protocols. Information captured by edge devices on the factory floor is secure and accessible from any location in real time, opening the communication gateway both vertically (connecting machines across the factory and enabling the instant availability of data to stakeholders within operational silos) and horizontally (with one framework for the entire supply chain, across departments, business units, global factory locations and other markets). End-to-end security and privacy solutions in IoT space require agile, context-aware and scalable components with mechanisms that are both fluid and adaptive.

The convergence of IT (information technology) and OT (operational technology) makes security and privacy by default a new important element where security is addressed at the architecture level, across applications and domains, using multi-layered distributed security measures. Blockchain is transforming industry operating models by adding trust to untrusted environments, providing distributed security mechanisms and transparent access to the information in the chain. Digital technology platforms are evolving, with IoT platforms integrating complex info

New Horizons for a Data-Driven Economy -

José María Cavanillas 2016-04-04

In this book readers will find technological

discussions on the existing and emerging technologies across the different stages of the big data value chain. They will learn about legal aspects of big data, the social impact, and about education needs and requirements. And they will discover the business perspective and how big data technology can be exploited to deliver value within different sectors of the economy. The book is structured in four parts: Part I "The Big Data Opportunity" explores the value potential of big data with a particular focus on the European context. It also describes the legal, business and social dimensions that need to be addressed, and briefly introduces the European Commission's BIG project. Part II "The Big Data Value Chain" details the complete big data lifecycle from a technical point of view, ranging from data acquisition, analysis, curation and storage, to data usage and exploitation. Next, Part III "Usage and Exploitation of Big Data" illustrates the value creation possibilities of big data applications in various sectors, including industry, healthcare, finance, energy, media and public services. Finally, Part IV "A Roadmap for Big Data Research" identifies and prioritizes the cross-sectorial requirements for big data research, and outlines the most urgent and challenging technological, economic, political and societal issues for big data in Europe. This compendium summarizes more than two years of work performed by a leading group of major European research centers and industries in the context of the BIG project. It brings together research findings, forecasts and estimates related to this challenging technological context that is becoming the major axis of the new digitally transformed business environment.

Living Well at Others' Expense - Stephan Lessenich 2019-04-15

At the heart of developed societies lies an insatiable drive for wealth and prosperity. Yet in a world ruled by free-market economics, there are always winners and losers. The benefits enjoyed by the privileged few come at the expense of the many. In this important new book, Stephan Lessenich shows how our wealth and affluence are built overwhelmingly at the expense of those in less-developed countries and regions of the world. His theory of 'externalization' demonstrates how the negative consequences of our lifestyles are directly

transferred onto the world's poorest. From the destruction of habitats caused by the massive increase in demand for soy and palm oil to the catastrophic impact of mining, Lessenich shows how the Global South has borne the brunt of our success. Yet, as we see from the mass movements of people across the world, we can no longer ignore the environmental and social toll of our prosperity. Lessenich's highly original account of the structure and dynamics of global inequality highlights the devastating consequences of the affluent lifestyles of the West and reminds us of our far-reaching political responsibilities in an increasingly interconnected world.

Nature-Based Solutions and Water Security - Jan Cassin 2021-07-22

Nature-Based Solutions and Water Security: An Action Agenda for the 21st Century presents an action agenda for natural infrastructure on topics of standards and principles, technical evaluation and design tools, capacity building and innovative finance. Chapters introduce the topic and concepts of natural infrastructure, or nature-based solutions (NBS) and water security, with important background on the urgency of the global water crisis and the role that NBS can, and should play, in addressing this crisis. Sections also present the community of practice's collective thinking on a prioritized action agenda to guide more rapid progress in mainstreaming NBS. With contributions from global authors, including key individuals and organizations active in developing NBS solutions, users will also find important conclusions and recommendations, thus presenting a collaboratively developed, consensus roadmap to scaling NBS. Covers all issues of water security and natural infrastructures Presents a comprehensive state of synthesis, providing readers with a solid grounding in the field of natural infrastructures and water security Includes a fully workable and intuitive roadmap for action that is presented as a guide to the most important actions for practitioners, research questions for academics, and information on promising careers for students entering the field

Subsidiarity and EU Multilevel Governance - Serafín Pazos-Vidal 2019-02-25

This book examines the theory and praxis of the

legal concept of subsidiarity and the policy paradigm of multilevel governance, providing an updated overview on how subnational and national authorities engage within the EU institutional framework. Providing a theoretical assessment of real-life case studies, the book reflects on a number of key events from the negotiations of the European Convention to the process that led to the "Brexit" referendum and assesses the key agendas and institutional ethos of most actors involved in EU policymaking. It particularly focusses on the EU engagement of so-called non-privileged actors, such as subnational authorities from the UK, Germany, Austria, Italy, the Netherlands and Scandinavia, as well as national and regional parliaments. The author goes on to examine the sometimes selfish behaviour and individual agendas of the European Commission, European Parliament, Member States and even the European Court of Justice but also identifies many constructive ways of interaction that can decisively frame how EU decisions are made. This comprehensive book will be a useful reference to students, practitioners and academic researchers working in European politics, policymaking, public policy and EU law and integration.

Building Industries at Sea - 'Blue Growth' and the New Maritime Economy - Kate Johnson 2022-09-01

Throughout the world there is evidence of mounting interest in marine resources and new maritime industries to create jobs, economic growth and to help in the provision of energy and food security. Expanding populations, insecurity of traditional sources of supply and the effects of climate change add urgency to a perceived need to address and overcome the serious challenges of working in the maritime environment. Four promising areas of activity for 'Blue Growth' have been identified at European Union policy level including Aquaculture; Renewable Energy (offshore wind, wave and tide); Seabed Mining; and Blue Biotechnology. Work has started to raise the technological and investment readiness levels (TRLs and IRLs) of these prospective industries drawing on the experience of established maritime industries such as Offshore Oil and Gas; Shipping; Fisheries and Tourism. An accord has to be struck between policy makers and

regulators on the one hand, anxious to direct research and business incentives in effective and efficient directions, and developers, investors and businesses on the other, anxious to reduce the risks of such potentially profitable but innovative investments. The EU H2020 MARIBE (Marine Investment for the Blue Economy) funded project was designed to identify the key technical and non-technical challenges facing maritime industries and to place them into the social and economic context of the coastal and ocean economy. MARIBE went on to examine with companies, real projects for the combination of marine industry sectors into multi-use platforms (MUPs). The purpose of this book is to publish the detailed analysis of each prospective and established maritime business sector. Sector experts working to a common template explain what these industries are, how they work, their prospects to create wealth and employment, and where they currently stand in terms of innovation, trends and their lifecycle. The book goes on to describe progress with the changing regulatory and planning regimes in the European Sea Basins including the Caribbean where there are significant European interests. The book includes:

- Experienced chapter authors from a truly multidisciplinary team of sector specialisms
- First extensive study to compare and contrast traditional Blue Economy with Blue Growth
- Complementary to EU and National policies for multi-use of maritime space

The Fight Against Discrimination and the Promotion of Equality - European Commission. Directorate-General for Employment, Social Affairs and Equal Opportunities. Unit G.4 2008

Recoge: 1. Elaboration of a conceptual framework - 2. The conceptual framework set against the facts - 3. Principal lessons learned and recommendations.

Remaking Europe - Reinhilde Veugelers 2017-09-30

How well are European firms responding to the new opportunities for growth, and in which global value chains are they developing these new activities? The policy discussion on the future of manufacturing requires an understanding of the changing role of manufacturing in Europe's growth agenda. *Smart Specialisation* - Dominique Foray 2014-08-13

This is the first book on a new policy approach that has been widely adopted in Europe and beyond. It analyses the concept of smart specialisation and discusses the need for smart specialisation strategies, explains why the approach is new and different from more standard policy processes and explores what are the conditions for successful implementation. **Smart Specialisation: Opportunities and Challenges for Regional Innovation Policy** describes the origin of the concept, explains when a smart specialisation policy is necessary, provides a detailed analysis of the design principles of the policy and discusses the pertinence of this approach according to regional development levels. Finally the book discusses the practical implementation phase of the process - based on the first feedback acquired from certain regions engaged in the preparation of their smart specialisation strategy. The book is original in that it provides the first full analysis of smart specialisation strategies both at theoretical and practical levels. It has been written at the critical period of the implementation of smart specialisation strategies in every region in Europe. The fact that the EU has adopted smart specialisation as a mandatory principle for every region and member states will make this book well received by and very useful for: i) policy makers in regional and national administrations in Europe, ii) policy makers in other parts of the world who are in charge of regional policy and have heard about the concept, iii) consultants, analysts and experts who are active on the "markets for smart specialisation diagnosis and expertise", iv) scholars, researchers and graduate students working in the field of regional studies, technology policy and geography of innovation. **Revitalising Lagging Regions** - Mariachiara Barzotto 2019-12-20

This Expo book brings together leading academic and policymaker experts to reflect on the significant challenges faced by lagging regions in participating in the European Union's Research and Innovation Strategies for Smart Specialisation (RIS3) programme. In doing so, the book offers a set of new policy recommendations on the design and implementation of appropriate Smart Specialisation Strategies (S3) in lagging regions,

which may enable them to benefit from the opportunities of digitalisation and Industry 4.0 (I4.0).

Addressing resource efficiency through the Ecodesign Directive - Carl Dalhammar
2014-04-08

The European Union has initiated a number of initiatives to improve resource efficiency in Europe. The Ecodesign Directive is one of the policy instruments that could aid the transition towards a more resource efficient economy. So far, the Directive has mainly been applied to set requirements related to energy efficiency, but there is potential for setting legal standards that increase product durability and promote the future re-use and recycling of components and materials. This paper examines the potential benefits and disadvantages in applying the Directive for this purpose, and analyzes the potential to apply certain types of legal standards. There is a need for continuous development of indicators and methods in order to allow for a broader range of legal standards in the future. The study provides some short and long term recommendations on the way forward. **Human Health and Performance Risks of Space Exploration Missions** - Jancy C. McPhee
2009

Attribution of Extreme Weather Events in the Context of Climate Change - National Academies of Sciences, Engineering, and Medicine
2016-07-28

As climate has warmed over recent years, a new pattern of more frequent and more intense weather events has unfolded across the globe. Climate models simulate such changes in extreme events, and some of the reasons for the changes are well understood. Warming increases the likelihood of extremely hot days and nights, favors increased atmospheric moisture that may result in more frequent heavy rainfall and snowfall, and leads to evaporation that can exacerbate droughts. Even with evidence of these broad trends, scientists cautioned in the past that individual weather events couldn't be attributed to climate change. Now, with advances in understanding the climate science behind extreme events and the science of extreme event attribution, such blanket statements may not be accurate. The

relatively young science of extreme event attribution seeks to tease out the influence of human-cause climate change from other factors, such as natural sources of variability like El Niño, as contributors to individual extreme events. Event attribution can answer questions about how much climate change influenced the probability or intensity of a specific type of

weather event. As event attribution capabilities improve, they could help inform choices about assessing and managing risk, and in guiding climate adaptation strategies. This report examines the current state of science of extreme weather attribution, and identifies ways to move the science forward to improve attribution capabilities.