

BITS OF POWER



Issues
in Global
Access to
Scientific
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Bits Of Power Issues In Global Access To Scientific Data

National Research Council, Policy and Global Affairs, Board on International Scientific Organizations, Office of International Scientific and Technical Information Programs, Steering Committee on the Role of Scientific and Technical Data and Information in the Public Domain

Bits Of Power Issues In Global Access To Scientific Data:

Bits of Power National Research Council, Division on Engineering and Physical Sciences, Commission on Physical Sciences, Mathematics, and Applications, Committee on Issues in the Transborder Flow of Scientific Data, 1997-08-07 Since Galileo corresponded with Kepler the community of scientists has become increasingly international A DNA sequence is as significant to a researcher in Novosibirsk as it is to one in Pasadena And with the advent of electronic communications technology these experts can share information within minutes What are the consequences when more bits of scientific data cross more national borders and do it more swiftly than ever before Bits of Power assesses the state of international exchange of data in the natural sciences identifying strengths weaknesses and challenges The committee makes recommendations about access to scientific data derived from public funding The volume examines Trends in the electronic transfer and management of scientific data Pressure toward commercialization of scientific data including the economic aspects of government dissemination of the data The implications of proposed changes to intellectual property laws and the role of scientists in shaping legislative and legal solutions Improving access to scientific data by and from the developing world Bits of Power explores how these issues have been addressed in the European Community and includes examples of successful data transfer activities in the natural sciences The book will be of interest to scientists and scientific data managers as well as intellectual property rights attorneys legislators government agencies and international organizations concerned about the electronic flow of scientific data

Bits of Power National Research Council, Division on Engineering and Physical Sciences, Commission on Physical Sciences, Mathematics, and Applications, Committee on Issues in the Transborder Flow of Scientific Data, 1997-09-07 Since Galileo corresponded with Kepler the community of scientists has become increasingly international A DNA sequence is as significant to a researcher in Novosibirsk as it is to one in Pasadena And with the advent of electronic communications technology these experts can share information within minutes What are the consequences when more bits of scientific data cross more national borders and do it more swiftly than ever before Bits of Power assesses the state of international exchange of data in the natural sciences identifying strengths weaknesses and challenges The committee makes recommendations about access to scientific data derived from public funding The volume examines Trends in the electronic transfer and management of scientific data Pressure toward commercialization of scientific data including the economic aspects of government dissemination of the data The implications of proposed changes to intellectual property laws and the role of scientists in shaping legislative and legal solutions Improving access to scientific data by and from the developing world Bits of Power explores how these issues have been addressed in the European Community and includes examples of successful data transfer activities in the natural sciences The book will be of interest to scientists and scientific data managers as well as intellectual property rights attorneys legislators government agencies and international organizations concerned about the electronic flow of scientific data

Computational Science - ICCS 2009

Gabrielle Allen, Jaroslaw Nabrzyski, Edward Seidel, Geert Dick van Albada, Jack Dongarra, Peter M.A. Sloot, 2009-05-19 The two volume set LNCS 5544 5545 constitutes the refereed proceedings of the 9th International Conference on Computational Science ICCS 2009 held in Baton Rouge LA USA in May 2008 The 60 revised papers of the main conference track presented together with the abstracts of 5 keynote talks and the 138 revised papers from 13 workshops were carefully reviewed and selected for inclusion in the three volumes The general main track of ICSS 2009 was organized in about 20 parallel sessions addressing the following topics e Science Applications and Systems Scheduling Software Services and Tools New Hardware and Its Applications Computer Networks Simulation of Complex Systems Image Processing Optimization Techniques and Numerical Methods

Ensuring the Integrity, Accessibility, and Stewardship of Research Data in the Digital Age

Institute of Medicine, National Academy of Engineering, National Academy of Sciences, Committee on Science, Engineering, and Public Policy, Committee on Ensuring the Utility and Integrity of Research Data in a Digital Age, 2009-11-17 As digital technologies are expanding the power and reach of research they are also raising complex issues These include complications in ensuring the validity of research data standards that do not keep pace with the high rate of innovation restrictions on data sharing that reduce the ability of researchers to verify results and build on previous research and huge increases in the amount of data being generated creating severe challenges in preserving that data for long term use Ensuring the Integrity Accessibility and Stewardship of Research Data in the Digital Age examines the consequences of the changes affecting research data with respect to three issues integrity accessibility and stewardship and finds a need for a new approach to the design and the management of research projects The report recommends that all researchers receive appropriate training in the management of research data and calls on researchers to make all research data methods and other information underlying results publicly accessible in a timely manner The book also sees the stewardship of research data as a critical long term task for the research enterprise and its stakeholders Individual researchers research institutions research sponsors professional societies and journals involved in scientific engineering and medical research will find this book an essential guide to the principles affecting research data in the digital age

New and Forthcoming Books

National Academy Press (U.S.), 1993

Bioinformatics, Medical Informatics and the Law

Contreras, Jorge L., Cuticchia, A. J., Kirsch, Gregory J., 2022-01-11 In recent years the field of bioinformatics has emerged from the university research laboratory and entered the mainstream healthcare establishment During this time there has been a rapid increase of legal developments affecting this dynamic field from Supreme Court decisions radically altering the patentability of informatics inventions to major developments in privacy law both in Europe and the U S This edited book strives to offer the reader insight into some of the major legal trends and considerations applicable to these fields today

Legal Framework for e-Research

Brian Fitzgerald, 2007-08-01 This book provides an overview of key legal issues facing e Research data exchange and data management collaborative endeavour the role and operation of privacy law and commercialisation

The Legal

Regulation of Academic Freedom Lucia Pallier, 2025-11-12 This book compares and examines the ways in which law addresses and resolves conflicts between academic freedom and responsibility Academic freedom is an important value in the modern scientific and technologically driven world Societies depend heavily on the commodities of scientific progress especially in essential sectors such as healthcare and as a result research is now carried out in an increasingly globalized context protected by national and international law This freedom can however be problematic if it is decoupled from a commitment to academic responsibility scientific rigor and good professional conduct Focusing on the example of biomedical research this book examines how various legal systems address the interplay between academic rights and duties More specifically it considers the tension between national constitutions and legal doctrine which tend to focus on concepts such as science inherent laws or professional standards and international law which establishes a right for everyone to enjoy the benefits of scientific progress thereby implying a duty on the part of the academic community to conduct science in a way that maximizes its benefits to society at large The book concludes by proposing policy reforms that aim to balance these demands and thus reduce tensions within the academic system This book will appeal to scholars and students working at the intersection of law and science as well as policymakers and STEM scientists concerned with issues of academic freedom

Intellectual Property and Human Rights World Intellectual Property Organization, 1999 The papers published in this volume were presented at a panel discussion titled Intellectual Property and Human Rights organized by the World Intellectual Property Organization WIPO in collaboration with the Office of the United Nations High Commissioner for Human Rights OHCHR on November 9 1998

Distributed Geolibraries National Research Council, Division on Earth and Life Studies, Commission on Geosciences, Environment and Resources, Panel on Distributed Geolibraries, 1999-06-01 A distributed geolibrary is a vision for the future It would permit users to quickly and easily obtain all existing information available about a place that is relevant to a defined need It is modeled on the operations of a traditional library updated to a digital networked world and focused on something that has never been possible in the traditional library the supply of information in response to a geographically defined need It would integrate the resources of the Internet and the World Wide Web into a simple mechanism for searching and retrieving information relevant to a wide range of problems including natural disasters emergencies community planning and environmental quality A geolibrary is a digital library filled with geoinformation information associated with a distinct area or footprint on the Earth's surface and for which the primary search mechanism is place A geolibrary is distributed if its users services metadata and information assets can be integrated among many distinct locations This report presents the findings of the Workshop on Distributed Geolibraries Spatial Information Resources convened by the Mapping Science Committee of the National Research Council in June 1998 The report is a vision for distributed geolibraries not a blueprint Developing a distributed geolibrary involves a series of technical challenges as well as institutional and social issues which are addressed relative to the vision

108-1 Joint Hearing:

*Database and Collections of Information Misappropriations, Serial No. 51, September 23, 2003, *, 2004* The Digital Dilemma National Research Council, Commission on Physical Sciences, Mathematics, and Applications, Computer Science and Telecommunications Board, Committee on Intellectual Property Rights and the Emerging Information Infrastructure, 2000-02-24 Imagine sending a magazine article to 10 friends making photocopies putting them in envelopes adding postage and mailing them Now consider how much easier it is to send that article to those 10 friends as an attachment to e mail Or to post the article on your own site on the World Wide Web The ease of modifying or copying digitized material and the proliferation of computer networking have raised fundamental questions about copyright and patent intellectual property protections rooted in the U S Constitution Hailed for quick and convenient access to a world of material the Internet also poses serious economic issues for those who create and market that material If people can so easily send music on the Internet for free for example who will pay for music This book presents the multiple facets of digitized intellectual property defining terms identifying key issues and exploring alternatives It follows the complex threads of law business incentives to creators the American tradition of access to information the international context and the nature of human behavior Technology is explored for its ability to transfer content and its potential to protect intellectual property rights The book proposes research and policy recommendations as well as principles for policymaking Monitoring Ecological Condition in the Western United States Shabeg S. Sandhu, Brian D. Melzian, Edward R. Long, Walter G. Whitford, Barbara T. Walton, 2012-12-06 The monitoring of point sources by the Environmental Protection Agency EPA the states and the tribes has documented and helped reduce the levels of chemical stressors affecting our ecosystems With the controls on point sources reducing chemical contamination new environmental challenges associated with nonpoint sources have emerged To adequately deal with these new problems EPA s Office of Research and Development recognized the need to develop an overall understanding of the condition of our ecological resources the trends in their condition and the stressors affecting these systems on a broad scale Toward this end the Environmental Monitoring and Assessment Program EMAP was established by EPA and has been strategically developing the scientific tools and techniques to monitor and assess the status and trends of aquatic ecosystems EMAP scientists have developed new indicators and probability based designs to fill data gaps in the development of regional scale assessments of our aquatic resources as required in the Clean Water Act We have a scientifically defensible approach that allows 100 percent coverage of the aquatic resources within broad geographic areas and the formulation of reference conditions for establishing the health of these resources The use of these indicators and designs were successfully demonstrated in the landscapes streams and estuaries of the mid Atlantic states as part of the Mid Atlantic Integrated Assessment MALA **Resolving Conflicts Arising from the Privatization of Environmental Data** National Research Council, Division on Earth and Life Studies, Board on Earth Sciences and Resources, Committee on Geophysical and Environmental Data, 2001-01-01 Reliable collections of science based

environmental information are vital for many groups of users and for a number of purposes For example electric utility companies predict demand during heat waves structural engineers design buildings to withstand hurricanes and earthquakes water managers monitor each winter s snow pack and farmers plant and harvest crops based on daily weather predictions Understanding the impact of human activities on climate water ecosystems and species diversity and assessing how natural systems may respond in the future are becoming increasingly important for public policy decisions Environmental information systems gather factual information transform it into information products and distribute the products to users Typical uses of the information require long term consistency hence the operation of the information system requires a long term commitment from an institution agency or corporation The need to keep costs down provides a strong motivation for creating multipurpose information systems that satisfy scientific commercial and operational requirements rather than systems that address narrow objectives Resolving Conflicts Arising from the Privatization of Environmental Data focuses on such shared systems Digital Capitalism Dan Schiller,1999 Schiller explores how corporate domination is changing the political and social underpinnings of the Internet He argues that the market driven policies which govern the Internet are exacerbating existing social inequalities **International Public Goods and Transfer of Technology Under a Globalized Intellectual Property Regime** Keith E. Maskus,Jerome H. Reichman,2005-06-08 Distinguished economists political scientists and legal experts discuss the implications of the increasingly globalized protection of intellectual property rights for the ability of countries to provide their citizens with such important public goods as basic research education public health and environmental protection Such items increasingly depend on the exercise of private rights over technical inputs and information goods which could usher in a brave new world of accelerating technological innovation However higher and more harmonized levels of international intellectual property rights could also throw up high roadblocks in the path of follow on innovation competition and the attainment of social objectives It is at best unclear who represents the public interest in negotiating forums dominated by powerful knowledge cartels This is the first book to assess the public processes and inputs that an emerging transnational system of innovation will need to promote technical progress economic growth and welfare for all participants **The Availability of Spatial and Environmental Data in the European Union** Katleen Janssen,2010-01-01 Because the original and essential value of spatial data data that refer to specific geographical locations or areas lies in environmental decision making such data mostly originate in the public sector and are made available to people Copyright Law Paul Torremans,2009-01-01 this book provides an interesting insight into many aspects of copyright law It is a useful resource not only for those whose core practice is copyright but also those involved in industries reliant on copyright New Zealand Law Journal Copyright law is undergoing rapid transformations to cope with the new international digital environment This valuable research Handbook provides a thorough and contemporary tableau of current thinking in copyright law It traces the changes undergone and the challenges faced by copyright as well as its roots

and its diversity combining to present a colourful picture of a dynamic research area The editor brings together an elite group of international copyright scholars who offer incisive and original analysis of a wide range of issues and aspects of copyright law and in some cases a multiplicity of perspectives on a single topic Rigorous and often thought provoking in nature this research Handbook clearly maps the current landscape and will also undoubtedly stimulate further research in the field Analysing the cutting edge of current copyright research Copyright Law will be of great interest to researchers students practitioners and policymakers

The Role of Scientific and Technical Data and Information in the Public Domain National Research Council,Policy and Global Affairs,Board on International Scientific Organizations,Office of International Scientific and Technical Information Programs,Steering Committee on the Role of Scientific and Technical Data and Information in the Public Domain,2003-08-29 This symposium brought together leading experts and managers from the public and private sectors who are involved in the creation dissemination and use of scientific and technical data and information STI to 1 describe and discuss the role and the benefits and costs both economic and other of the public domain in STI in the research and education context 2 to identify and analyze the legal economic and technological pressures on the public domain in STI in research and education 3 describe and discuss existing and proposed approaches to preserving the public domain in STI in the United States and 4 identify issues that may require further analysis **Renewing the knowledge societies vision for peace and sustainable development** Mansell, Robin,Tremblay, Gaëtan,2013-11-19

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