



Introduction



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A complexity science approach
to law and governance

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1. Introduction

The premise of this Special Issue is that legal systems are complex adaptive systems, and thus complexity science can be usefully applied to improve understanding of how legal systems operate, perform and change over time. The articles that follow take this proposition as a given and act on it using a variety of methods applied to a broad array of legal system attributes and contexts. Yet not too long ago some prominent legal scholars expressed scepticism that this field of study would produce more than broad generalizations, if even that [1–3]. To orient readers unfamiliar with this field and its history, here we offer a brief background on how using complexity science to study legal systems has advanced from claims of ‘pseudoscience’ status [3, p. 8] to a widely adopted mainstream method. We then situate and summarize the articles.

The focus of complexity science is complex adaptive systems (CAS), systems ‘in which large networks of components with no central control and simple rules of operation give rise to complex collective behavior, sophisticated information processing and adaptation via learning or evolution’ [4]. It is important to distinguish CAS from systems that are merely complicated, such as a combustion engine, or complex but non-adaptive, such as a hurricane [4]. A forest or coastal ecosystem, for

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Ecological Law and the Planetary Crisis Geoffrey Garver, 2020-10-29 This book uses a transdisciplinary systems approach to examine how Earth's human caused ecological crisis arose and presents a new legal approach for overcoming it. *Ecological Law and the Planetary Crisis* first examines how the history of humanity's social metabolism along with the history of human inventions and ideas led to the human Earth dilemma we see today and explains why contemporary law is inadequate for confronting this dilemma. The book goes on to propose ecological law that maintains human activity within ecological limits such as planetary boundaries while ensuring social justice and equity as an essential element of an urgently needed radical pathway of change toward a perpetual mutually enhancing human Earth relationship. Finally, it offers a systems based analytical tool for organizing actions to promote the transition from environmental to ecological law. Increasing the visibility, clarity, and development of ecological law, this book will be of great interest to students and scholars of ecological and environmental law and governance.

Space Odysseys Jørgen Ole Bærenholdt, Kirsten Simonsen, 2017-05-15 The nature of spatial imaginations has become central to a range of major social and political debates. Narratives on spatial inequality from the North-South divide in global economic and political visions to marginalisation and ghettoisation in Western cities appear regularly in our daily newspapers. Such examples indicate that issues of space spatiality are as crucial in our current societies as never before. *Space Odysseys* brings together leading social scientists including John Urry and Derek Gregory to address a number of central issues in spatiality and social relations in the early 21st century. Starting from the presupposition that space is a social dimension and a social construct, it then presents examples of these conceptions of space at work. While the book title's indirect reference to the film 2001: A Space Odyssey indicates the contributors' interest in questions of voyages and mobility, the plural use shows that the approaches to this conceptual exploration are multiple, reflecting differences in experience in social context and/or in gender, class, and ethnicity. The book is divided into three main sections. The first explores issues of mobility, immobility, and embodied narratives; the second section deals with territoriality, mobility, and identity politics; and the final section concludes with chapters on the spatial production of knowledge.

Frontiers of Globalization Research: Ino Rossi, 2007-03-21 To bring this volume together, the editor asked leading scholars in the field of globalization to outline a research framework that reflects their own approach to the subject. The resulting book presents a broad spectrum of analytical approaches to globalization. Theoretical reviews are complemented by substantive chapters and methodological analyses. Contributors include scholars in the fields of sociology, anthropology, history, and political science. These writings have been organized into four sections: theoretical perspectives and cultural globalization; economic globalization; political globalization; and methodological approaches.

Research Handbook on the Sociology of Law Jiří Příbáň, 2020-12-25 This unique Research Handbook maps the historical, theoretical, and methodological concepts in sociology of law, exploring the rich and complex nature of this area of research. It argues that sociology of law flourishes due to its

strong capacity for interdisciplinary engagement and links to other scientific concepts methodologies and research fields

Law in Transition Ruth Buchanan,Peer Zumbansen,2014-12-01 Law has become the vehicle by which countries in the developing world including post conflict states or states undergoing constitutional transformation must steer the course of social and economic legal and political change Legal mechanisms in particular the instruments as well as concepts of human rights play an increasingly central role in the discourses and practices of both development and transitional justice These developments can be seen as part of a tendency towards convergence within the wider set of discourses and practices in global governance While this process of convergence of formerly distinct normative and conceptual fields of theory and practice has been both celebrated and critiqued at the level of theory the present collection provides through a series of studies drawn from a variety of contexts in which human rights advocacy and transitional justice initiatives are colliding with development projects programmes and objectives a more nuanced and critical account of contemporary developments The book includes essays by many of the leading experts writing at the intersection of development rights and transitional justice studies Notwithstanding the theoretical and practical challenges presented by the complex interaction of these fields the premise of the book is that it is only through engagement and dialogue among hitherto distinct fields of scholarship and practice that a better understanding of the institutional and normative issues arising in contemporary law and development and transitional justice contexts will be possible The book is designed for research and teaching at both undergraduate and graduate levels

ENDORSEMENTS An extraordinary collection of essays that illuminate the nature of law in today s fragmented and uneven globalized world by situating the stakes of law in the intersection between the fields of human rights development and transitional justice Unusual for its breadth and the quality of scholarly contributions from many who are top scholars in their fields this volume is one of the first that attempts to weave the three specialized fields and succeeds brilliantly For anyone working in the fields of development studies human rights or transitional justice this volume is a wake up call to abandon their preconceived ideas and frames and aim for a conceptual and programmatic restart Professor Balakrishnan Rajagopal Ford International Associate Professor of Law and Development Massachusetts Institute of Technology This superb collection of essays explores the challenges possibilities and limits faced by scholars and practitioners seeking to imagine forms of law that can respond to social transformation Drawing together cutting edge work across the three dynamic fields of law and development transitional justice and international human rights law this volume powerfully demonstrates that in light of the changes demanded of legal research education and practice in a globalizing world all law is law in transition Anne Orford Michael D Kirby Chair of International Law and Australian Research Council Future Fellow University of Melbourne A terrific volume Leading scholars of human rights development policy and transitional justice look back and into the future What has worked Where have these projects gone astray or conflicted with one another Law will only contribute forcefully to justice development and peaceful sustainable change if the lessons learned

here give rise to a new practical wisdom We all hope law can do better the essays collected here begin to show us how David Kennedy Manley O Hudson Professor of Law Director Institute for Global Law and Policy Harvard Law School **Research Handbook on Law and Technology** Bartosz Brożek,Olia Kanevskaia,Przemysław Pałka,2023-12-11 This thorough and incisive Research Handbook reconstructs the scholarly discourses surrounding the field of law and technology discussing the salient legal governance and societal problems stemming from the use of different technologies and how they should be treated under various legal frameworks This title contains one or more Open Access chapters *Governing through Standards: the Faceless Masters of Higher Education* Katja Brøgger,2018-11-09 This book offers an empirical and theoretical account of the mode of governance that characterizes the Bologna Process In addition it shows how the reform materializes and is translated in everyday working life among professors and managers in higher education It examines the so called Open Method of Coordination as a powerful actor that uses soft governance to advance transnational standards in higher education The book shows how these standards no longer serve as tools for what were once human organizational national or international regulators Instead the standards have become regulators themselves the faceless masters of higher education By exploring this the book reveals the close connections between the Bologna Process and the EU regarding regulative and monitoring techniques such as standardizations and comparisons which are carried out through the Open Method of Coordination It suggests that the Bologna Process works as a subtle means to circumvent the EU s subsidiarity principle making it possible to accomplish a European governance of higher education despite the fact that education falls outside EU s legislative reach The book s research interest in translation processes agency and power relations among policy actors positions it in studies on policy transfer policy borrowing and globalization However different from conventional approaches this study draws on additional interpretive frameworks such as new materialism **Global Governmentality** Wendy Larner,William Walters,2004-08-02 Global Governmentality extends Foucault s political thought towards international studies exploring the governance of the global the international the regional and many other extra domestic spaces **A Librarian's Guide to Graphs, Data and the Semantic Web** James Powell,2015-07-09 Graphs are about connections and are an important part of our connected and data driven world A Librarian s Guide to Graphs Data and the Semantic Web is geared toward library and information science professionals including librarians software developers and information systems architects who want to understand the fundamentals of graph theory how it is used to represent and explore data and how it relates to the semantic web This title provides a firm grounding in the field at a level suitable for a broad audience with an emphasis on open source solutions and what problems these tools solve at a conceptual level with minimal emphasis on algorithms or mathematics The text will also be of special interest to data science librarians and data professionals since it introduces many graph theory concepts by exploring data driven networks from various scientific disciplines The first two chapters consider graphs in theory and the science of networks before the following chapters cover networks in various

disciplines Remaining chapters move on to library networks graph tools graph analysis libraries information problems and network solutions and semantic graphs and the semantic web Provides an accessible introduction to network science that is suitable for a broad audience Devotes several chapters to a survey of how graph theory has been used in a number of scientific data driven disciplines Explores how graph theory could aid library and information scientists

Biocommunication: Sign-mediated Interactions Between Cells And Organisms Richard Gordon, Joseph Seckbach, 2016-11-01 All coordination between cells organs and organisms depends on successful biocommunicative processes There are abundant cases of communication in the biological world both within intraspecific and between interspecific single cell and multicellular microorganisms and higher animal forms Split into two parts this book first looks at the history development and progress within the field of biocommunication The second part presents real life case studies and investigation into examples of biocommunication in the biological world Among the organisms covered are bacteria fungi plants terrestrial and marine animals including bonobos chimpanzees and dolphins as well as a new theory of communication between parts in developing embryos cybernetic embryos Contributions from international experts in the field provide up to date research and results while in depth analysis expands on these findings to pave the way for future discoveries As the first comprehensive review of its kind it is perfect for undergraduates graduates professionals and researchers in the field of life sciences

SELECTED CONTEMPORARY ISSUES ON LAW, SOCIAL, AND POLITICS Baiq Wardhani, et al., 2023-04-26 This book once again shows the results of the ongoing collaboration between UniZSA Malaysia and UNAIR Indonesia especially those involving Faculty of Social and Political Sciences of UNAIR and Faculty of Law and International Relations of UniZSA each of which is led by the Department of International Relations Furthermore this book is also a reminder that scientific work can be disseminated in various forms other than on the mainstream platform In addition this book is an alternative source of learning for lecturers students and the public For the higher education this book can be a medium to strengthen academic networks and a means of communication for its authors

Globalization and Intellectual Property Alexandra George, 2017-05-15 Intellectual property laws have become intricately entwined with discussions about globalization This volume deals with the politics economics and effects of global intellectual propertization It provides essays covering key issues including the international relations of global intellectual propertization the TRIPS Agreement and the tying of intellectual property issues to international trade negotiations contentions that global intellectual propertization is a form of post colonial neo imperialism globalization s effects on intellectual property law s classic doctrines and rationales and the cultural effects of global intellectual propertization

CyberCulture Now: Social and Communication Behaviours on the Web Anna Maj, 2019-01-04 This volume was first published by Inter Disciplinary Press in 2013 At present cyberculture is a dominating cultural paradigm and nothing seems to be able to replace it We globally share the same cyberspace but there is a question whether we all together the whole humankind are really living in the same cyberculture This book proves that we

rather tend to define the contemporary state of culture as cybercultures The process of spreading technologies trends and ideas is not the same in all parts of the world The varying speeds of this process and cultural diversity of its forms are created by different social political economic and cultural contexts By representing different perspectives the authors depict a wide spectrum of the most important current problems connected with networked life global sharing of data loss of privacy new meanings of community and developments in narrative structures and social behaviours arising from new communication possibilities instantaneity of information and global viral sensitivity Encyclopedia of Digital Government Anttiroiko, Ari-Veikko, Malkia, Matti, 2006-07-31 Containing more than 250 articles this three volume set provides a broad basis for understanding issues theories and applications faced by public administrations and public organizations as they strive for more effective government through the use of emerging technologies This publication is an essential reference tool for academic public and private libraries Re-thinking Intellectual Property YiJun Tian, 2008-08-20 This book examines the problems in the current Intellectual Property Rights regime in the context of digitization knowledge economy and globalization The volume also provides specific theoretical policy and legislative suggestions for changes which would contribute to the establishment of an international knowledge equilibrium society Systemic Actions in Complex Scenarios James Ming Chen, Edit Fabó, Emilia Ferone, 2017-08-21 What is the contribution of General System Theory to the macro level understanding of economic social and technological changes in our epoch from a multidimensional perspective What is the contribution of Social Action Theory on a micro scale Can complex scenario analyses although based upon uncertainty and unpredictability offer a viable toolkit for managing these transformations This book contains twelve chapters dealing with these questions from various points of view It brings together essays in sociology economics law and humanities to provide as complete a representation as possible of the current global situation The theoretical framework adopted here is that the systemic approach provides the most effective tool both for understanding social phenomena and elaborating policy modelling strategies for decision makers that are supposed to tackle social criticalities *Alternative Globalizations* S. A. Hamed Hosseini, 2009-12-04 This book explores the formation and transformation of ideas identities and solidarities in the global opposition to the corporate led globalization and its ideological basis neo liberalism *Access Denied* Ronald Deibert, John Palfrey, Rafal Rohozinski, Jonathan Zittrain, 2008-01-25 A study of Internet blocking and filtering around the world analyses by leading researchers and survey results that document filtering practices in dozens of countries Many countries around the world block or filter Internet content denying access to information that they deem too sensitive for ordinary citizens most often about politics but sometimes relating to sexuality culture or religion Access Denied documents and analyzes Internet filtering practices in more than three dozen countries offering the first rigorously conducted study of an accelerating trend Internet filtering takes place in more than three dozen states worldwide including many countries in Asia the Middle East and North Africa Related Internet content control mechanisms are also in place in Canada the United

States and a cluster of countries in Europe Drawing on a just completed survey of global Internet filtering undertaken by the OpenNet Initiative a collaboration of the Berkman Center for Internet and Society at Harvard Law School the Citizen Lab at the University of Toronto the Oxford Internet Institute at Oxford University and the University of Cambridge and relying on work by regional experts and an extensive network of researchers Access Denied examines the political legal social and cultural contexts of Internet filtering in these states from a variety of perspectives Chapters discuss the mechanisms and politics of Internet filtering the strengths and limitations of the technology that powers it the relevance of international law ethical considerations for corporations that supply states with the tools for blocking and filtering and the implications of Internet filtering for activist communities that increasingly rely on Internet technologies for communicating their missions Reports on Internet content regulation in forty different countries follow with each two page country profile outlining the types of content blocked by category and documenting key findings Contributors Ross Anderson Malcolm Birdling Ronald Deibert Robert Faris Vesselina Haralampieva as per Rob Faris Steven Murdoch Helmi Noman John Palfrey Rafal Rohozinski Mary Rundle Nart Villeneuve Stephanie Wang Jonathan Zittrain Global Digital Data Governance Carolina Aguerre, Malcolm Campbell-Verduyn, Jan Aart Scholte, 2024-01-30 This book provides a nuanced exploration of contemporary digital data governance highlighting the importance of cooperation across sectors and disciplines in order to adapt to a rapidly evolving technological landscape Most of the theory around global digital data governance remains scattered and focused on specific actors norms processes or disciplinary approaches This book argues for a polycentric approach allowing readers to consider the issue across multiple disciplines and scales Polycentrism this book argues provides a set of lenses that tie together the variety of actors issues and processes intertwined in digital data governance at subnational national regional and global levels Firstly this approach uncovers the complex array of power centers and connections in digital data governance Secondly polycentric perspectives bridge disciplinary divides challenging assumptions and drawing together a growing range of insights about the complexities of digital data governance Bringing together a wide range of case studies this book draws out key insights and policy recommendations for how digital data governance occurs and how it might occur differently Written by an international and interdisciplinary team this book will be of interest to students and scholars in the field of development studies political science international relations global studies science and technology studies sociology and media and communication studies The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license

Equity and Trusts Alastair Hudson, 2013 Alastair Hudson's Equity and Trusts is an ideal textbook for undergraduate courses on the law of trusts and equitable remedies It provides a clear current and comprehensive account of the subject through which the author's enthusiasm and expertise shine through helping to bring to life an area of the law which students often find challenging Fully updated and revised this Seventh Edition contains an analysis of Jones v Kernott and trusts of

homes a new treatment of dishonest assistance and unconscionable receipt a full treatment of the law on super injunctions coverage of all of the trusts law cases precipitated by the collapse of Lehman Brothers a reflection on women and equity and the politics of trusts law a new treatment of the Hastings Bass principle and analysis of over 200 new cases and the Perpetuities and Accumulations Act 2009 Equity and Trusts remains the most comprehensive and up to date coverage of the law of Equity and Trusts while still a lively and thoughtful account of the issues raised by it This book has been cited as being authoritative in the courts of numerous countries The seventh edition is supported by a companion website which includes over 50 short podcast lectures by the author discussing and clarifying key topics from within the book which cover an entire course a set of brief video documentaries filmed on location which provide context and bring to life selected key topics a brief introductory video presentation from the author introducing the viewer to the subject of Equity and Trusts and to the book in particular

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