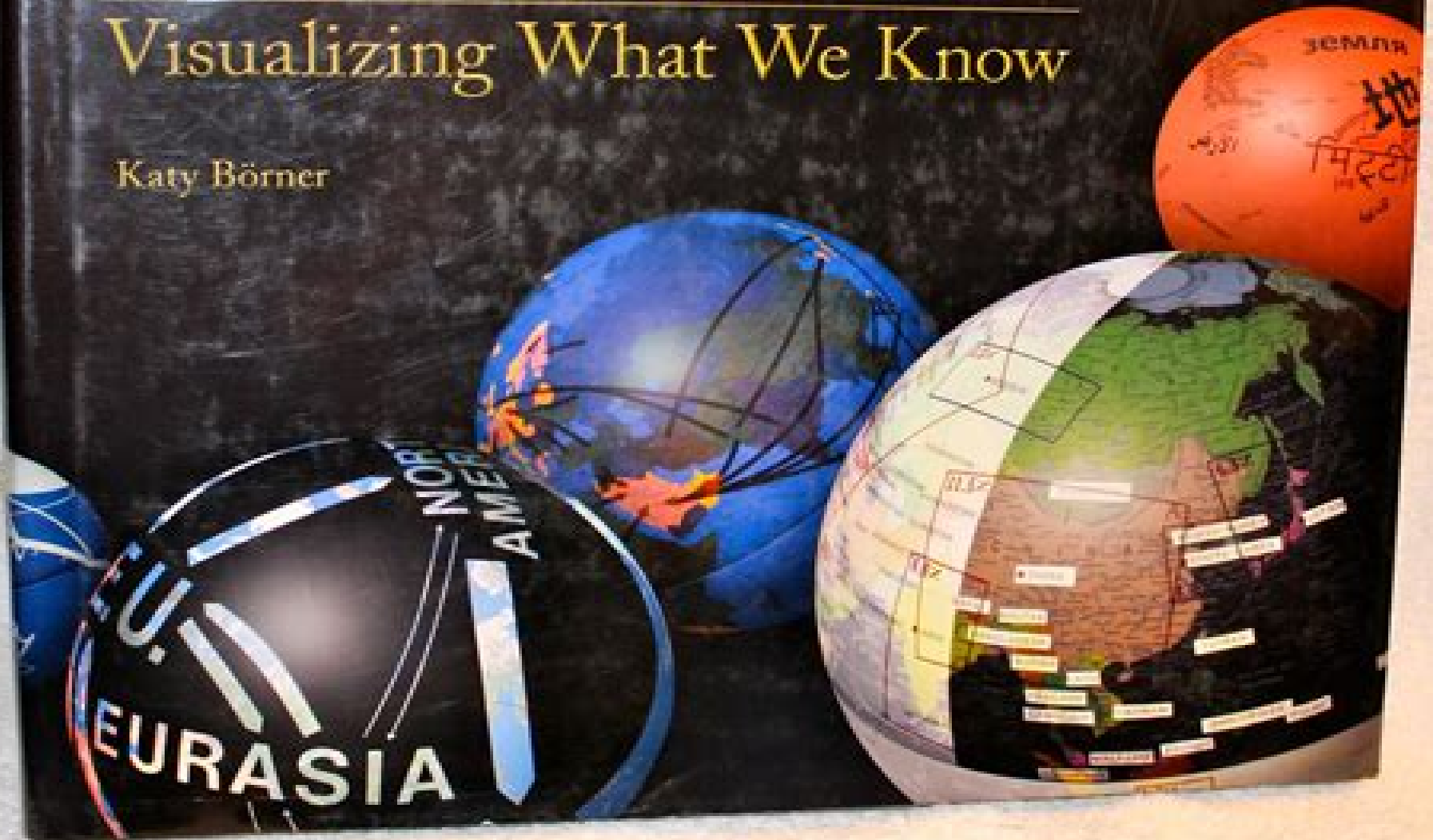


# Atlas of Science

## Visualizing What We Know

Katy Börner



# Atlas Of Science Visualizing What We Know

**Raffaella Di Napoli**



## **Atlas Of Science Visualizing What We Know:**

**Atlas of Science** Katy Börner, 2010-09-17 Science maps that can help us understand and navigate the immense amount of results generated by today's science and technology Cartographic maps have guided our explorations for centuries allowing us to navigate the world Science maps have the potential to guide our search for knowledge in the same way allowing us to visualize scientific results Science maps help us navigate understand and communicate the dynamic and changing structure of science and technology help us make sense of the avalanche of data generated by scientific research today Atlas of Science featuring more than thirty full page science maps fifty data charts a timeline of science mapping milestones and 500 color images serves as a sumptuous visual index to the evolution of modern science and as an introduction to the science of science charting the trajectory from scientific concept to published results Atlas of Science based on the popular exhibit Places a guide to a PhD thesis that resembles a subway map the structure of science as revealed in a map of citation relationships in papers published in 2002 a visual periodic table a history flow visualization of the Wikipedia article on abortion a globe showing the worldwide distribution of patents a forecast of earthquake risk hands on science maps for kids and many more Each entry includes the story behind the map and biographies of its makers Not even the most brilliant minds can keep up with today's deluge of scientific results Science maps show us the landscape of what we know

**Atlas of Knowledge** Katy Börner, 2015-03-20 The power of mapping principles for visualizing knowledge illustrated by many stunning large scale full color maps Maps of physical spaces locate us in the world and help us navigate unfamiliar routes Maps of topical spaces help us visualize the extent and structure of our collective knowledge they reveal bursts of activity pathways of ideas and borders that beg to be crossed This book from the author of Atlas of Science describes the power of topical maps providing readers with principles for visualizing knowledge and offering as examples forty large scale and more than 100 small scale full color maps Today data literacy is becoming as important as language literacy Well designed visualizations can rescue us from a sea of data helping us to make sense of information connect ideas and make better decisions in real time In Atlas of Knowledge leading visualization expert Katy Börner makes the case for a systems science approach to science and technology studies and explains different types and levels of analysis Drawing on fifteen years of teaching and tool development she introduces a theoretical framework meant to guide readers through user and task analysis data preparation analysis and visualization visualization deployment and the interpretation of science maps To exemplify the framework the Atlas features striking and enlightening new maps from the popular Places Spaces Mapping Science exhibit that range from Key Events in the Development of the Video Tape Recorder to Mobile Landscapes Location Data from Cell Phones for Urban Analysis to Literary Empires Mapping Temporal and Spatial Settings of Victorian Poetry to Seeing Standards A Visualization of the Metadata Universe She also discusses the possible effect of science maps on the practice of science

*Atlas of Knowledge* Katy Börner, 2015-03-20 The power of mapping principles for visualizing

knowledge illustrated by many stunning large scale full color maps Maps of physical spaces locate us in the world and help us navigate unfamiliar routes Maps of topical spaces help us visualize the extent and structure of our collective knowledge they reveal bursts of activity pathways of ideas and borders that beg to be crossed This book from the author of Atlas of Science describes the power of topical maps providing readers with principles for visualizing knowledge and offering as examples forty large scale and more than 100 small scale full color maps Today data literacy is becoming as important as language literacy Well designed visualizations can rescue us from a sea of data helping us to make sense of information connect ideas and make better decisions in real time In Atlas of Knowledge leading visualization expert Katy Brner makes the case for a systems science approach to science and technology studies and explains different types and levels of analysis Drawing on fifteen years of teaching and tool development she introduces a theoretical framework meant to guide readers through user and task analysis data preparation analysis and visualization visualization deployment and the interpretation of science maps To exemplify the framework the Atlas features striking and enlightening new maps from the popular Places Spaces Mapping Science exhibit that range from Key Events in the Development of the Video Tape Recorder to Mobile Landscapes Location Data from Cell Phones for Urban Analysis to Literary Empires Mapping Temporal and Spatial Settings of Victorian Poetry to Seeing Standards A Visualization of the Metadata Universe She also discusses the possible effect of science maps on the practice of science *Encyclopedia of Information Science and Technology, Fourth Edition*

Khosrow-Pour, D.B.A., Mehdi, 2017-06-20 In recent years our world has experienced a profound shift and progression in available computing and knowledge sharing innovations These emerging advancements have developed at a rapid pace disseminating into and affecting numerous aspects of contemporary society This has created a pivotal need for an innovative compendium encompassing the latest trends concepts and issues surrounding this relevant discipline area During the past 15 years the Encyclopedia of Information Science and Technology has become recognized as one of the landmark sources of the latest knowledge and discoveries in this discipline The Encyclopedia of Information Science and Technology Fourth Edition is a 10 volume set which includes 705 original and previously unpublished research articles covering a full range of perspectives applications and techniques contributed by thousands of experts and researchers from around the globe This authoritative encyclopedia is an all encompassing well established reference source that is ideally designed to disseminate the most forward thinking and diverse research findings With critical perspectives on the impact of information science management and new technologies in modern settings including but not limited to computer science education healthcare government engineering business and natural and physical sciences it is a pivotal and relevant source of knowledge that will benefit every professional within the field of information science and technology and is an invaluable addition to every academic and corporate library *The Oxford Handbook of Social Networks* Ryan Light, James Moody, 2020 The Oxford Handbook of Social Networks gathers forty leading scholars in social networks who link the distinct practices of social

network scholars in the social sciences Each chapter provides a succinct background to and future directions for distinctive approaches to analyzing social networks theoretical methodological or substantive The Handbook serves as a resource for graduate students and faculty new to networks looking to learn new approaches scholars interested in an overview of the field and network analysts looking to expand their skills or substantive areas of research

**Measuring Scholarly Impact** Ying Ding, Ronald Rousseau, Dietmar Wolfram, 2014-11-06 This book is an authoritative handbook of current topics technologies and methodological approaches that may be used for the study of scholarly impact The included methods cover a range of fields such as statistical sciences scientific visualization network analysis text mining and information retrieval The techniques and tools enable researchers to investigate metric phenomena and to assess scholarly impact in new ways Each chapter offers an introduction to the selected topic and outlines how the topic technology or methodological approach may be applied to metrics related research Comprehensive and up to date Measuring Scholarly Impact Methods and Practice is designed for researchers and scholars interested in informetrics scientometrics and text mining The hands on perspective is also beneficial to advanced level students in fields from computer science and statistics to information science

**ArtsIT, Interactivity and Game Creation** Anthony L. Brooks, 2024-03-20 This book constitutes the refereed post conference proceedings the 12th EAI International Conference on ArtsIT Interactivity and Game Creation ArtsIT 2023 which was held in S o Paulo Brazil in November 27 29 2023 The 40 revised full papers and 1 Short paper presented were carefully selected from 103 submissions The papers are thematically arranged in the following sections Part I exploring new frontiers in music therapy network dance and technology computational art and the creative process alternative realities immersion experiences and arts based research Part II alternative realities immersion experiences and arts based research games interactive technologies multimedia and musical art human at centre

*Atlas of Macroscopes* Katy Börner, Elizabeth G. Record, Todd Theriault, 2025-10-14 A fascinating data adventure through the lens of macroscopes which offer us illuminating and holistic views of our ever changing world In Atlas of Macroscopes Katy B rner Elizabeth Record and Todd Theriault take you on an epic data adventure You will explore data landscapes designed as uniquely interactive spaces and learn more about our world and your place in it You will gain new perspectives on how to gather understand and communicate data as well as how to best use it You will discover what it means to touch data that informs and inspires Transcending the static nature of the maps featured in the initial trilogy this fourth Atlas showcases 40 real life macroscopes or interactive data visualizations that were displayed in the first decade 2015 2024 of the traveling exhibit Places Spaces Mapping Science Encompassing vast amounts of data macroscopes give us holistic views of complex systems or networks They provide an entry point for scientists and laypeople alike and empower us to engage directly with large datasets and to conduct our own lines of questioning As interactive tools macroscopes connect data creators and users As portals to continuously evolving data macroscopes can serve as windows to the dynamics of any terrain personal or professional local or global and offer key insights into our

surroundings and even our place in the universe While big data is creating new ways to view and understand information macroscopes help us see the big picture as we seek to better navigate our ever changing world *Design of Visualizations for Human-Information Interaction* Kamran Sedig,Paul Parsons,2022-05-31 Interest in visualization design has increased in recent years While there is a large body of existing work from which visualization designers can draw much of the past research has focused on developing new tools and techniques that are aimed at specific contexts Less focus has been placed on developing holistic frameworks models and theories that can guide visualization design at a general level a level that transcends domains data types users and other contextual factors In addition little emphasis has been placed on the thinking processes of designers including the concepts that designers use while they are engaged in a visualization design activity In this book we present a general holistic framework that is intended to support visualization design for human information interaction The framework is composed of a number of conceptual elements that can aid in design thinking The core of the framework is a pattern language consisting of a set of 14 basic abstract patterns and a simple syntax for describing how the patterns are blended We also present a design process made up of four main stages for creating static or interactive visualizations The 4 stage design process places the patterns at the core of designers thinking and employs a number of conceptual tools that help designers think systematically about creating visualizations based on the information they intend to represent Although the framework can be used to design static visualizations for simple tasks its real utility can be found when designing visualizations with interactive possibilities in mind in other words designing to support a human information interactive discourse This is especially true in contexts where interactive visualizations need to support complex tasks and activities involving large and complex information spaces The framework is intended to be general and can thus be used to design visualizations for diverse domains users information spaces and tasks in different fields such as business intelligence health and medical informatics digital libraries journalism education scientific discovery and others Drawing from research in multiple disciplines we introduce novel concepts and terms that can positively contribute to visualization design practice and education and will hopefully stimulate further research in this area **Science Dynamics and Research Production**

Nikolay K. Vitanov,2016-08-01 This book deals with methods to evaluate scientific productivity In the book statistical methods deterministic and stochastic models and numerous indexes are discussed that will help the reader to understand the nonlinear science dynamics and to be able to develop or construct systems for appropriate evaluation of research productivity and management of research groups and organizations The dynamics of science structures and systems is complex and the evaluation of research productivity requires a combination of qualitative and quantitative methods and measures The book has three parts The first part is devoted to mathematical models describing the importance of science for economic growth and systems for the evaluation of research organizations of different size The second part contains descriptions and discussions of numerous indexes for the evaluation of the productivity of researchers and groups of

researchers of different size up to the comparison of research productivities of research communities of nations Part three contains discussions of non Gaussian laws connected to scientific productivity and presents various deterministic and stochastic models of science dynamics and research productivity The book shows that many famous fat tail distributions as well as many deterministic and stochastic models and processes which are well known from physics theory of extreme events or population dynamics occur also in the description of dynamics of scientific systems and in the description of the characteristics of research productivity This is not a surprise as scientific systems are nonlinear open and dissipative

Data Insights Hunter Whitney, 2012-11-27 Data Insights New Ways to Visualize and Make Sense of Data offers thought provoking insights into how visualization can foster a clearer and more comprehensive understanding of data The book offers perspectives from people with different backgrounds including data scientists statisticians painters and writers It argues that all data is useless or misleading if we do not know what it means Organized into seven chapters the book explores some of the ways that data visualization and other emerging approaches can make data meaningful and therefore useful It also discusses some fundamental ideas and basic questions in the data lifecycle the process of interactions between people data and displays that lead to better questions and more useful answers and the fundamentals origins and purposes of the basic building blocks that are used in data visualization The reader is introduced to tried and true approaches to understanding users in the context of user interface design how communications can get distorted and how data visualization is related to thinking machines Finally the book looks at the future of data visualization by assessing its strengths and weaknesses Case studies from business analytics healthcare network monitoring security and games among others as well as illustrations thought provoking quotes and real world examples are included This book will prove useful to computer professionals technical marketing professionals content strategists Web and product designers and researchers Demonstrates with a variety of case studies how visualizations can foster a clearer and more comprehensive understanding of data Answers the question How can data visualization help me with discussions of how it fits into a wide array of purposes and situations Makes the case that data visualization is not just about technology it also involves a deeply human process

Models of Science Dynamics Andrea Scharnhorst, Katy Börner, Peter van den Besselaar, 2012-01-24 Models of Science Dynamics aims to capture the structure and evolution of science the emerging arena in which scholars science and the communication of science become themselves the basic objects of research In order to capture the essence of phenomena as diverse as the structure of co authorship networks or the evolution of citation diffusion patterns such models can be represented by conceptual models based on historical and ethnographic observations mathematical descriptions of measurable phenomena or computational algorithms Despite its evident importance the mathematical modeling of science still lacks a unifying framework and a comprehensive study of the topic This volume fills this gap reviewing and describing major threads in the mathematical modeling of science dynamics for a wider academic and professional audience The model classes presented

cover stochastic and statistical models system dynamics approaches agent based simulations population dynamics models and complex network models The book comprises an introduction and a foundational chapter that defines and operationalizes terminology used in the study of science as well as a review chapter that discusses the history of mathematical approaches to modeling science from an algorithmic historiography perspective It concludes with a survey of remaining challenges for future science models and their relevance for science and science policy *Atlas of Forecasts* Katy Börner, 2021-08-31

Forecasting the future with advanced data models and visualizations To envision and create the futures we want society needs an appropriate understanding of the likely impact of alternative actions Data models and visualizations offer a way to understand and intelligently manage complex interlinked systems in science and technology education and policymaking *Atlas of Forecasts* from the creator of *Atlas of Science* and *Atlas of Knowledge* shows how we can use data to predict communicate and ultimately attain desirable futures Using advanced data visualizations to introduce different types of computational models *Atlas of Forecasts* demonstrates how models can inform effective decision making in education science technology and policymaking The models and maps presented aim to help anyone understand key processes and outcomes of complex systems dynamics including which human skills are needed in an artificial intelligence empowered economy what progress in science and technology is likely to be made and how policymakers can future proof regions or nations This *Atlas* offers a driver's seat perspective for a test drive of the future **The Dynamics of Science** Grant Ramsey, Andreas De Block, 2022-11-22

Millions of scientific articles are published each year making it difficult to stay abreast of advances within even the smallest subdisciplines Traditional approaches to the study of science such as the history and philosophy of science involve closely reading a relatively small set of journal articles And yet many questions benefit from casting a wider net Is most scientific change gradual or revolutionary What are the key sources of scientific novelty Over the past several decades a massive effort to digitize the academic literature and equip computers with algorithms that can distantly read and analyze a digital database has taken us one step closer to answering these questions *The Dynamics of Science* brings together a diverse array of contributors to examine the largely unexplored computational frontiers of history and philosophy of science Together they reveal how tools and data from automated textual analysis or machine reading combined with methods and models from game theory and cultural evolutionary theory can begin to answer fundamental questions about the nature and history of science Visual Insights Katy Börner, David E. Polley, 2014-01-24

A guide to the basics of information visualization that teaches nonprogrammers how to use advanced data mining and visualization techniques to design insightful visualizations In the age of Big Data the tools of information visualization offer us a macroscope to help us make sense of the avalanche of data available on every subject This book offers a gentle introduction to the design of insightful information visualizations It is the only book on the subject that teaches nonprogrammers how to use open code and open data to design insightful visualizations Readers will learn to apply advanced data mining and visualization techniques to

make sense of temporal geospatial topical and network data The book developed for use in an information visualization MOOC covers data analysis algorithms that enable extraction of patterns and trends in data with chapters devoted to when temporal data where geospatial data what topical data and with whom networks and trees and to systems that drive research and development Examples of projects undertaken for clients include an interactive visualization of the success of game player activity in World of Warcraft a visualization of 311 number adoption that shows the diffusion of non emergency calls in the United States a return on investment study for two decades of HIV AIDS research funding by NIAID and a map showing the impact of the HiveNYC Learning Network Visual Insights will be an essential resource on basic information visualization techniques for scholars in many fields students designers or anyone who works with data *Rediscovering the World* Benjamin Hennig, 2012-12-14 We need new maps is the central claim made in this book In a world increasingly influenced by human action and interaction we still rely heavily on mapping techniques that were invented to discover unknown places and explore our physical environment Although the traditional concept of a map is currently being revived in digital environments the underlying mapping approaches are not capable of making the complexity of human environment relationships fully comprehensible Starting from how people can be put on the map in new ways this book outlines the development of a novel technique that stretches a map according to quantitative data such as population The new maps are called gridded cartograms as the method is based on a grid onto which a density equalising cartogram technique is applied The underlying grid ensures the preservation of an accurate geographic reference to the real world It allows the gridded cartograms to be used as basemaps onto which other information can be mapped This applies to any geographic information from the human and physical environment As demonstrated through the examples presented in this book the new maps are not limited to showing population as a defining element for the transformation but can show any quantitative geospatial data such as wealth rainfall or even the environmental conditions of the oceans The new maps also work at various scales from a global perspective down to the scale of urban environments The gridded cartogram technique is proposed as a new global and local map projection that is a viable and versatile alternative to other conventional map projections The maps based on this technique open up a wide range of potential new applications to rediscover the diverse geographies of the world They have the potential to allow us to gain new perspectives through detailed cartographic depictions **Theories of Informetrics and Scholarly Communication** Cassidy R. Sugimoto, 2016-02-22 Scientometrics have become an essential element in the practice and evaluation of science and research including both the evaluation of individuals and national assessment exercises Yet researchers and practitioners in this field have lacked clear theories to guide their work As early as 1981 then doctoral student Blaise Cronin published The need for a theory of citing a call to arms for the fledgling scientometric community to produce foundational theories upon which the work of the field could be based More than three decades later the time has come to reach out the field again and ask how they have responded to this call This book compiles the

foundational theories that guide informetrics and scholarly communication research It is a much needed compilation by leading scholars in the field that gathers together the theories that guide our understanding of authorship citing and impact

**The New ABCs of Research** Ben Shneiderman, 2016 This book is a guide for junior researchers and a manifesto for senior researchers and policy makers about how to update policies to respond to the immense challenges of our times The guiding principles are to combine applied and basic research in ways that use the methods of science engineering and design

**Routledge Handbook of Academic Knowledge Circulation** Wiebke Keim, Leandro Rodriguez Medina, Rigas Arvanitis, Natacha Bacolla, Chandni Basu, Stéphane Dufoix, Stefan Klein, Mauricio Nieto Olarte, Barbara Riedel, Clara Ruvituso, Gernot Saalman, Tobias Schlechtriemen, Hebe Vessuri, 2023-06-30 Knowledge is a result of never ending processes of circulation This accessible volume is the first comprehensive multidisciplinary work to explore these processes through the perspective of scholars working outside of Anglo American paradigms Through a variety of literature reviews examples of recent research and in depth case studies the chapters demonstrate that the analysis of knowledge circulation requires a series of ontological and epistemic commitments that impact its conceptualisation and methodologies Bringing diverse viewpoints from across the globe and from a range of disciplines including anthropology economics history political science sociology and Science ii spaces and actors of circulation iii academic media and knowledge circulation iv the political economy of academic knowledge circulation v the geographies geopolitics and historical legacies of the global circulation of academic knowledge vi the relationships between academic and extra academic knowledges and vii methodological approaches to studying the circulation of academic knowledge This handbook will be essential reading for academics researchers and postgraduate researchers in the humanities and social sciences interested in the circulation of knowledge

*Past, Present, and Future Possibilities for Philosophy and History of Education* Stefan Ramaekers, Naomi Hodgson, 2018-08-17 On the occasion of the retirement of Paul Smeyers this book considers the state and status of the philosophy and history of education today Over the last 20 years the conditions in which research takes place have changed considerably They have done so in ways that are often less than favourable to disciplines such as history and philosophy of education and the space and time for the practices that constitute these disciplines of reading of writing of collegiality is increasingly under pressure During this time the Research Community on the History and Philosophy of Educational Research has convened annually to bring its critical lenses to bear on these emergent conditions and to suggest ways that educational research might or ought to be done otherwise As co founder and co convenor of the Research Community this volume explores and recounts Paul Smeyers development of Wittgensteinian scholarship and its legacy in education his formative role in the development of philosophy of education as an international field his many international collaborations the useless educational philosophical deepening of concepts and the wider educational philosophical import of this This gives rise to consideration of the failure of these fields to halt the changes in the governance and status of the university that

threatens them and those practices that remain and that are emerging in academia that we wish to protect to pass on to the next generation of researchers in these fields

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