



# Science and technology studies: Exploring the knowledge base

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## ARTICLE INFO

### Article history:

Received 4 April 2011

Received in revised form

30 November 2011

Accepted 6 March 2012

Available online 6 April 2012

### Keywords:

Science studies

STS

Knowledge base

Handbooks

Core contributions

## ABSTRACT

Science and Technology Studies (STS) is one of a number of new research fields to emerge over the last four or five decades. This paper attempts to identify its core academic contributions from the perspective of the authors of chapters in authoritative ‘handbooks’ and the references they cite. Besides identifying the most prominent publications, institutions and authors, we examine whether the core contributions can be broken down into identifiable clusters. The study also analyses the impact of these contributions by exploring the research fields, journals, and geographical location of the researchers that have cited the STS core contributions in their own work. Together, these analyses reveal a number of phases in the development of STS with periods of convergence and divergence of the field, including the gradual separation of quantitative studies of science and technology from the main body of STS. The paper ends with some conclusions about the evolution of STS, such as the role of ‘institution builders’ in developing new research fields and the structures required to hold them together.

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## 1. Introduction

New research fields in the social and natural sciences often originate at the intersections of established disciplines when researchers from neighbouring disciplines, with differing disciplinary perspectives, realise they share a common interest. Over time, by working together, they may start to develop their own shared conceptual, methodological and analytical frameworks. This then allows them to move from publishing in journals of their ‘parent’ disciplines and to establish their own journals, professional associations, specialised university departments or units (often with the name of the new field in their title), and PhD programmes to train their own researchers. Eventually, some fields may acquire enough of these characteristics in sufficiently developed form to achieve ‘disciplinary’ status.

This process of convergence can be seen in the field of Innovation Studies (which previously went by other titles such as ‘Science Policy’ – see Fagerberg and Verspagen, 2009; Fagerberg et al., 2012; Martin, 2012) and Entrepreneurship (Landström et al., 2012). However, as this paper will show, convergence is not the only possible outcome. The field of Science and Technology Studies (STS<sup>1</sup>), the

subject of this paper, has shown elements of both **convergence and divergence** since it began to emerge as a distinct organised speciality in the 1960s.

**From a science policy perspective, such convergence and divergence have both positive and negative consequences.** The shared assumptions of a discipline increase the coherence and speed of distributed problem-solving (Turro, 1986), but can also lead to group-think and intellectual inbreeding (Rafols et al., 2012).<sup>2</sup> Disciplines allow researchers to refrain from constantly justifying their implicit assumptions and judgements about research quality standards; they allow standardisation (for example, in terms of methodology); and they generate the scale needed to justify high fixed-cost investments in data collection, instrumentation and career development. **However, disciplinary cognitive framings can also blind researchers to alternative perspectives;** disciplinary power structures can adversely influence resource allocation, academic promotions and research evaluation; and cognitive infrastructure can embed flawed assumptions in path-dependent research trajectories from which it is difficult to escape.

The process of moving from a research field of shared interest to disciplinary status is generally punctuated by the publication of **a series of connected core contributions** that act as models, or

its title), although since then some authors have made a distinction between the two.

<sup>2</sup> These conflicting interactions are why ground-breaking research is often interdisciplinary, although interdisciplinary research is often not ground-breaking.

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<sup>1</sup> Somewhat confusingly, STS is also used as an abbreviation for ‘Science, Technology and Society’. During the early decades at least, these two terms were used interchangeably (the 1977 STS Handbook uses ‘Science, Technology and Society’ in

# Research In Science And Technology Studies Knowledge And Technology Transfer

**Larisa V Shavinina**



## **Research In Science And Technology Studies Knowledge And Technology Transfer:**

**Research in Science and Technology Studies** M. de Laet, 2002-08-15 A commentary on the practice of knowledge and technology transfer and the practice of observation and intervention this title documents the various ways in which knowledge and technology transfer happen in practice and how they result in new socio technical arrangements

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

The International Handbook on Innovation Larisa V Shavinina, 2003-10-16 The breadth of this work will allow the reader to acquire a comprehensive and panoramic picture of the nature of innovation within a single handbook **E-Research**

, 1951 Research and Relevant Knowledge Roger L. Geiger, 2017-09-29 The rise of American research universities to international preeminence constitutes one of the most important episodes in the history of higher education Research and Relevant Knowledge follows Geiger s earlier volume on American research universities from 1900 to 1940 This second work is the first study to trace this momentous development in the post World War II period It describes how the federal government first relied on university scientists during the war and how the resulting relationship set the pattern for the postwar mushrooming of academic research The first half of the book analyzes the development of the postwar system of academic research exploring the contributions of foundations defense agencies and universities The second half depicts the rise of the golden age of academic research in the years after Sputnik 1957 and its eventual dissolution at the end of the 1960s graduate education When the federal patron soon reduced its largesse university students took the lead in challenging the putative hegemony of academic research The loss of consensus quickly brought the malaise of the 1970s stagnation frustration and equivocation about the research role The final chapter appraises the renaissance of the 1980s based largely

on a rapprochement with the private sector and ends by evaluating the embattled status of research universities at the beginning of the 1990s Research and Relevant Knowledge provides the first authoritative analytical account of American research universities during their most fateful half century It will be of critical importance to all those concerned with the future of higher education in the United States *Eradicating Blindness* Logan D. A. Williams,2018-08-20 This book describes community ophthalmology professionals in South Asia who demonstrate social entrepreneurship in global health to help the rural poor Their innovations contested economic and scientific norms and spread from India and Nepal outwards to other countries in Africa and Asia as well as the United States Australia and Finland This feminist postcolonial global ethnography illustrates how these innovations have resulted in dual socio technical systems to solve the problem of avoidable blindness Policymakers and activists might use this example of how to avoid Schumacher s critique of low labor large scale and implement Gandhi s philosophy of good for all *Do Glaciers Listen?* Julie Cruikshank,2010-10-01 Do Glaciers Listen explores the conflicting depictions of glaciers to show how natural and cultural histories are objectively entangled in the Mount Saint Elias ranges This rugged area where Alaska British Columbia and the Yukon Territory now meet underwent significant geophysical change in the late eighteenth and nineteenth centuries which coincided with dramatic social upheaval resulting from European exploration and increased travel and trade among Aboriginal peoples European visitors brought with them varying conceptions of nature as sublime as spiritual or as a resource for human progress They saw glaciers as inanimate subject to empirical investigation and measurement Aboriginal oral histories conversely described glaciers as sentient animate and quick to respond to human behaviour In each case however the experiences and ideas surrounding glaciers were incorporated into interpretations of social relations Focusing on these contrasting views during the late stages of the Little Ice Age 1550 1900 Cruikshank demonstrates how local knowledge is produced rather than discovered through colonial encounters and how it often conjoins social and biophysical processes She then traces how the divergent views weave through contemporary debates about cultural meanings as well as current discussions about protected areas parks and the new World Heritage site Readers interested in anthropology and Native and northern studies will find this a fascinating read and a rich addition to circumpolar literature **Technoethics and the Evolving Knowledge Society: Ethical Issues in Technological Design, Research, Development, and Innovation** Luppicini, Rocci,2010-01-31 This book introduces the reader to the key concepts and issues that comprise the emerging field of Technoethics the interdisciplinary field concerned with all ethical aspects of technology within a society shaped by technology Provided by publisher **Anthropology and Climate Change** Susan A Crate,Mark Nuttall,2016-06-03 Comprehensively assessing anthropology s engagement with climate change this volume both maps out exciting trajectories for research and issues a call to action Linking sophisticated knowledge to effective actions Anthropology and Climate Change is essential for students and scholars in anthropology and environmental studies **Handbook of Meta-Research** Alis Oancea,Gemma E.

Derrick,Nuzha Nuseibeh,Xin Xu,2024-02-12 A collective project arising from a dynamic configuration of research concerned with systematic critical and reflexive inquiry into the normative frames institutional workings and lived realities of research this dexterously crafted Handbook acts as a working guide to the rapidly evolving interdisciplinary field of meta research Bringing together cutting edge multidisciplinary scholarship it expertly outlines key domains including the public value policy and governance of research knowledge dynamics and research cultures and careers This title contains one or more Open Access chapters **Making Diabetes** Arlena Siobhan Liggins,2020-01-06 Diabetes is regarded as one of the most

challenging global health issues of the 21st century Especially countries with weak health infrastructure are struggling to deal with the increased demands this chronic disease entails Tracing the effects of a diagnostic device the glucometer this book examines how it contributes to the making of diabetes in contemporary Uganda Arlena S Liggins demonstrates that depending on who uses the glucometer the outcomes may go far beyond diagnosis The book draws a complex picture of hopes and misplaced expectations of trust and mistrust in a technology to which access in the first place is all but a given

Universities and Strategic Knowledge Creation Andrea Bonaccorsi,Cinzia Daraio,2007-01-01 my opinion is that this book not only presents a wide and complete report of an extensive research effort but also opens new directions for future research advancements in this field that is very relevant both from theoretical considerations and policy making implications Education Economics This book is the first work that brings together comprehensive evidence on research and education activities conducted in European universities The volume is both timely current discussion on the European Research Area is based on very poor quality comparative evidence and important for scholars practitioners policymakers and students It provides a critical assessment of the availability and use of inputoutput data and indicators to measure and map European higher education systems At a time when universities are being asked to play an increasing number of roles this book represents a foundation on which scholars and policymakers can start to develop the harmonised statistical infrastructure needed to evaluate assess and support European universities in their changing roles Aldo Geuna University of Sussex UK Although the role of universities in the knowledge society is increasingly significant there remains a severe lack of systematic quantitative evidence at the micro level with virtually all policy discussion based on country level statistics or case studies This book redresses the balance by examining original data from universities in six European countries Italy Norway Portugal Spain Switzerland and the UK The authors provide micro based evidence on the evolution of the strategic profile of universities in terms of scientific research contract research education and the third mission The result is a highly innovative book that combines detailed national case studies and comparative institutional analyses with state of the art quantitative techniques Applying for the first time new generations of nonparametric efficiency measures on a large scale Universities and Strategic Knowledge Creation will be of great interest to researchers and postgraduate students in higher education economics of science and technology and innovation studies It will also appeal to policymakers and administrators in

governments ministries and universities

### **Executive Teams in Research-Based Spin-Off Companies** Rigo

Tietz,2013-04-10 Research based spin off companies are a special subgroup of new technology based ventures and play an important role for innovation and economic development Executive teams of academic spin offs face several challenges in building up sustainable and profitable ventures because they often lack managerial and entrepreneurial skills Based on a quantitative analysis of 193 German spin offs RigoTietz examines the relationships between executive team characteristics strategic decision making and firm performance The study contributes to the entrepreneurship and strategic management literature and has practical implications for entrepreneurs and managers policymakers and practitioners of start up

initiatives and technology transfer organisations

### **Industrializing Knowledge** Lewis M. Branscomb,Fumio

Kodama,Richard L. Florida,1999 Compares the economic effects of university research in the USA and Japan Incorporating historical sociological and industrial perspectives the book discusses the mechanics of university industry interactions and how policies encouraging such interactions can address regional national needs

*Putting Responsible Research and Innovation into Practice* Vincent Blok,2022-10-13 This Open Access book builds on the experiences of one of the largest European projects in the domain of responsible Research and Innovation NewHorizon It highlights the potential of and opportunity in responsible R I to conduct innovation in a socially responsible way Employing the methodology of Social Labs the book analyses responsible R I from an experience based viewpoint and further explores the application of responsible R I beyond scholarly and industrial interests The contributors analyze the current European R I landscape provide reflection and reconceptualization of its core concepts and project future challenges in relation to responsible R I The book complements the readers line of work by providing insights on how responsible R I can be applied by the audience for example in their decision making processes

### A World of Many Worlds Marisol de la Cadena,Mario Blaser,2018-10-25

A World of Many Worlds is a search into the possibilities that may emerge from conversations between indigenous collectives and the study of science s philosophical production The contributors explore how divergent knowledges and practices make worlds They work with difference and sameness recursion divergence political ontology cosmopolitics and relations using them as concepts methods and analytics to open up possibilities for a pluriverse a cosmos composed through divergent political practices that do not need to become the same Contributors Mario Blaser Alberto Corsi Jimenez Danowski Marisol de la Cadena John Law Marianne Lien Isabelle Stengers Marilyn Strathern Helen Verran Eduardo Viveiros de Castro

**Research Collaboration and Team Science** Barry Bozeman,Craig Boardman,2014-05-16 Today in most scientific and technical fields more than 90% of research studies and publications are collaborative often resulting in high impact research and development of commercial applications as reflected in patents Nowadays in many areas of science collaboration is not a preference but literally a work prerequisite The purpose of this book is to review and critique the burgeoning scholarship on research collaboration The authors seek to identify gaps in theory and research and identify the ways in which existing

research can be used to improve public policy for collaboration and to improve project level management of collaborations using Scientific and Technical Human Capital STHC theory as a framework Broadly speaking STHC is the sum of scientific and technical and social knowledge skills and resources embodied in a particular individual It is both human capital endowments such as formal education and training and social relations and network ties that bind scientists and the users of science together STHC includes the human capital which is the unique set of resources the individual brings to his or her own work and to collaborative efforts Generally human capital models have developed separately from social capital models but in the practice of science and the career growth of scientists the two are not easily disentangled Using a multi factor model the book explores various factors affecting collaboration outcomes with particular attention on institutional factors such as industry university relations and the rise of large scale university research centers

**Service Science Research, Strategy and Innovation: Dynamic Knowledge Management Methods** Delener, N.,2012-01-31 This book explores areas such as strategy development service contracts human capital management leadership management marketing e government and e commerce Provided by publisher Global Transformations and World Futures - Volume I Sohail Tahir Inayatullah,2009-10-20 Global Transformations and World Futures is a component of Encyclopedia of Development and Economic Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Global Transformations and World Futures in two volumes deals with the diversity of points of view on this complex subject The chapters in these volumes are organized into three groups The first starts with chapters introducing the Global transformations in Knowledge Social and Cultural issues Issues such as the nature of global science the challenge of building real communities in a virtual world and the transition from an information economy to a communicative economy are explored The second presents the Global Economy The final group discusses the World Futures These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs Knowledge and Innovation in the New Service Economy Birgitte Andersen,2000-11-27 Knowledge and Innovation in the New Service Economy is an interesting book that provides a good overview of recent trends in the service sector This book is recommended for libraries supporting upper division and graduate programs in international business and e commerce or for those who want a thorough overview of the knowledge based service economy Steven W Staninger Business Information Alert Knowledge and innovation are key factors contributing to growth and prosperity in the new service economy This book presents original empirical and theoretical contributions to address the economic dimensions of knowledge and the organisation of knowledge intensive activity through specialised services Specific analyses include macro statistics to highlight the contribution of services to economic activity firm level survey data to identify and consider client relations case studies of four innovation oriented business services

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## **Table of Contents Research In Science And Technology Studies Knowledge And Technology Transfer**

1. Understanding the eBook Research In Science And Technology Studies Knowledge And Technology Transfer
  - The Rise of Digital Reading Research In Science And Technology Studies Knowledge And Technology Transfer
  - Advantages of eBooks Over Traditional Books
2. Identifying Research In Science And Technology Studies Knowledge And Technology Transfer
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Research In Science And Technology Studies Knowledge And Technology Transfer
  - User-Friendly Interface
4. Exploring eBook Recommendations from Research In Science And Technology Studies Knowledge And Technology Transfer
  - Personalized Recommendations
  - Research In Science And Technology Studies Knowledge And Technology Transfer User Reviews and Ratings



- Research In Science And Technology Studies Knowledge And Technology Transfer and Bestseller Lists
- 5. Accessing Research In Science And Technology Studies Knowledge And Technology Transfer Free and Paid eBooks
  - Research In Science And Technology Studies Knowledge And Technology Transfer Public Domain eBooks
  - Research In Science And Technology Studies Knowledge And Technology Transfer eBook Subscription Services
  - Research In Science And Technology Studies Knowledge And Technology Transfer Budget-Friendly Options
- 6. Navigating Research In Science And Technology Studies Knowledge And Technology Transfer eBook Formats
  - ePub, PDF, MOBI, and More
  - Research In Science And Technology Studies Knowledge And Technology Transfer Compatibility with Devices
  - Research In Science And Technology Studies Knowledge And Technology Transfer Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Research In Science And Technology Studies Knowledge And Technology Transfer
  - Highlighting and Note-Taking Research In Science And Technology Studies Knowledge And Technology Transfer
  - Interactive Elements Research In Science And Technology Studies Knowledge And Technology Transfer
- 8. Staying Engaged with Research In Science And Technology Studies Knowledge And Technology Transfer
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Research In Science And Technology Studies Knowledge And Technology Transfer
- 9. Balancing eBooks and Physical Books Research In Science And Technology Studies Knowledge And Technology Transfer
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Research In Science And Technology Studies Knowledge And Technology Transfer
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Research In Science And Technology Studies Knowledge And Technology Transfer
  - Setting Reading Goals Research In Science And Technology Studies Knowledge And Technology Transfer

- Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Research In Science And Technology Studies Knowledge And Technology Transfer
  - Fact-Checking eBook Content of Research In Science And Technology Studies Knowledge And Technology Transfer
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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