



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 (STS¹), 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).² 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.

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

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¹ 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

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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 Ruvitso, 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

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

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

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 **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 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 Rigo Tietz 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 *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 *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 *E-Research* ,1951 **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 *Building the Knowledge Society on the Internet: Sharing and Exchanging Knowledge in Networked Environments* Bolisani, Ettore, 2008-06-30 In today s networked societies a key factor of the social and economic success is the capability to exchange transfer and share knowledge This book provides research on the topic providing a foundation of an emerging and multidisciplinary field Provided by publisher *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 **Knowledge, Power, and Participation in Environmental Policy** **Analysis** Rob Hoppe, 2018-01-16 This volume probes practical dilemmas and competing research perspectives in

environmental policy analysis Scholars working in different fields research traditions societies and policy domains offer significant insights into the processes and consequences of environmental policy making Part 1 Coping with Boundaries describes present day conflict between experts and greater public participation in environmental policy It shows that the institutionalization of increasingly complex environmental problems has led to a conflict between technocracy and democracy Part 2 The Transnational Challenge examines modes of cooperation between grassroots movements scientists and regional authorities in the United States and Canada These and other modes of cooperation laid the foundations for the Great Lakes Water Quality Agreement increased the effectiveness of air pollution treaties and increased climate change Part 3 Bio Hazards Policies and Paralysis deals with environmental problems closest to the everyday concerns of the public at large because they have immediate implications for food safety and other values Part 4 The Citizens Perspective focuses on citizen vis a vis environmental policy noting that in order to make policies work citizens must be willing and able to participate in policy making and cooperate in implementing environmental choices Part 5 Confronting Ordinary and Expert Knowledge explores opportunities and constraints affecting public participation in evaluation of science Part 6 Developments in Research Programming addresses such questions as whether scientists still have opportunities to do the research they want without being interrupted or disturbed by policy makers and other stakeholders Part 7 Policy Sciences Aspirations explores different avenues for improving environmental policy Volume twelve in the PSRA series should inspire further investigations of the relations among knowledge power and participation in environmental policy It will be of timely interest to environmentalists policy makers scholars and the general public

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 [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 **World Scientific Reference On Globalisation In Eurasia And The Pacific Rim (In 4 Volumes)** ,2015-11-06 This multi volume set focuses on a key region of the world which contains four of the biggest emerging economies a large number of highly dynamic small

and medium sized emerging economies and one of the leading advanced industrial countries It is a region which contains some of the biggest hydrocarbon and mineral deposits in the world and some of the most energy and metal hungry economies in the world With half the world s population it is one of the most dynamic regions of the globe in terms of population movement providing a key focus of foreign investment both inwards and outwards with a high degree of technological dynamism The region plays a central role in the industrial supply networks of the globe In four volumes focusing on respectively foreign investment innovation energy and migration the set focuses on each of the main elements in the production system in turn capital innovation raw materials and labour Volume 1 studies patterns of interchange of financial and direct investment within the region focusing on governance the development of supply chains and technology transfer In Volume 2 the technology theme becomes dominant with a special focus on digital technology It includes technical issues like mobile communications standardisation developmental dimensions including the role of clusters and science parks and political economy issues like the rise of techno nationalism Volume 3 turns to energy issues not just issues of supply and demand but also key problems of climate change security and sustainability across the Eurasian and Asian landmass Volume 4 presents the human dimension looking at people in movement as workers citizens men women or colonisers Among the key issues discussed are the migration from country to town in China the greying of countries like Japan the effect of war on migration marriage migration human trafficking and the depopulation of the Russian Far East The set is a must have for anyone keen to understand the region whose manufacturing core can be described without exaggeration as the workshop of the world of the twenty first century

Entrepreneurship and Knowledge Exchange Jay Mitra, John

Edmondson, 2015-04-17 Over the last several decades there has been a growing interest in the relationship between entrepreneurship and university industry collaboration namely how such cooperation can benefit entrepreneurship development at individual national and regional levels While there are several refereed journal articles on different aspects of university industry cooperation most studies dwell primarily on instruments such as spin offs incubators and graduate entrepreneurs This collection offers the first book length compendium of international comparative perspectives on university industry cooperation Entrepreneurship and Knowledge Exchange explores insights from a wide variety of countries of relevance to researchers as well as policy and decision makers especially those working in developing economies Seminal contributions from top academics in the field such as Alan Gibb Peter Scott and Mary Walshok are included The issues of knowledge transfer entrepreneurship and regional national economic regeneration have inspired countless programs and initiatives at national and regional levels and the chapters in this book examine these initiatives providing both a reference work and a record of practical experience

Knowledge, Diversity and Performance in European Higher Education Andrea Bonaccorsi, 2014-02-28 This highly original book analyses the results of a pioneering set of microdata on higher education institutions in 27 European countries in order to address key issues in higher education and research For

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