

Economics of Science, Technology and Innovation

The Economics of Localized Technological Change and Industrial Dynamics

by Cristiano Antonelli

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Economics Of Localized Technological Change And Industrial Dynamics

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The Economics of Localized Technological Change and Industrial Dynamics Cristiano Antonelli,1995 This text elaborates the notion of localized technology with respect to firms factor substitution sectors regions and techniques It assesses the implications for industrial policy technology and innovation policy

The Economics of Localized Technological Change and Industrial Dynamics Cristiano Antonelli,2012-12-06 The concept of localized technological change is emerging at the crossroads of different approaches to the economics of innovation and new technologies The term localized technological change refers to the introduction of technological changes which make possible an increase in total factor productivity within only a limited range of techniques defined by the levels of factor intensity This contrasts with generalized technological change which is defined as the global shift of all the techniques represented on the map of isoquants of the neoclassical tradition The Economics of Localized Technological Change elaborates the notion of localized technology with respect to firms factor substitution sectors regions and techniques It also assesses the implications for industrial policy technology and innovation policy The book will be of interest to corporate policy makers scholars of industrial organization and economics of innovation as well as business school students

Microdynamics of Technological Change Cristiano

Antonelli,2002-01-04 This volume presents a comprehensive assessment of the economic effects of the emerging information and communication technologies associated with a knowledge based economy and looks at how knowledge is increasingly treated as a product in its own right An original framework is developed to comprehend these fundamental shifts based on three bodies of knowledge the economics of path dependence and of historical time as they are elaborated in the economics of new technologies economic topology based on the methodology of network analysis the new economics of knowledge and the concept of localized technological change This book provides a unified analytical framework for the study of the transition of advanced economic systems towards a knowledge based economy

Technological Change and Economic

Catch-up Grazia D. Santangelo,2005-01-01 This book tackles the issue of technological and economic catch up by examining the role that public research institutions and local policy play in the promotion of this process by fostering local science technology linkages with incoming foreign owned multinationals

Information, Innovation and Impacts John de la Mothe,Gilles Paquet,2012-12-06 Information Innovation and Impacts a joint project between the Program of Research in International Management and Economy PRIME at the University of Ottawa and Statistics Canada brings together economic social and statistical views of the impacts of the innovative uses of information It examines the costs as well as the benefits of rapidly expanding availability of data of information and of codified knowledge and it provides suggestions for future work and research This project fits into an on going research program at Statistics Canada to develop indicators for science and technology S T in a more coherent manner and it fits into the research program of PRIME to better understand the dynamics of innovation in an information economy Together Statistics Canada and PRIME strive to tell the story of the activities in S T

systems their interactions and the outcomes as actors go about the generation transmission or mediation of knowledge information and of data as part of the effective functioning of the system **Technology and Markets for Knowledge** Bernard Guilhon, 2012-12-06 This book provides a unique set of empirical and theoretical analyses on the conditions determinants and effects of the exchange and trade of technological knowledge This work delivered by the research team lead by Bernard Guilhon shows that technological knowledge is more and more traded and exchanged in the market place When and where contractual interactions are implemented by an institutional set up which makes the exchange better reliable for both parties The new evidence provided by the book moreover makes it possible to appreciate the positive role of major knowledge rent externalities provided by the new quasi markets for technological knowledge Trade in technological knowledge leads in fact as the book shows to higher levels of division of labor specialization and efficiency in the production and distribution of new technological knowledge This dynamics is considered a part of a broader process where the generation of technological knowledge is itself becoming closer to the production of goods so that the division of labour among learning organization plays a growing role Exchange of technological knowledge takes part because the conditions for appropriability are now far better than currently assumed by a large traditional literature The analysis carried out through the book builds upon the notion of localized technological knowledge and suggests that the exchange of technological knowledge is not a spontaneous atmospheric process **Innovation Policy in the Knowledge-Based Economy** M.P. Feldman, Albert N. Link, 2012-12-06

Scholars in the science and technology field have not collectively questioned much less proposed an agenda for policy makers Now is an appropriate time for such an undertaking First there is a growing belief that the U S national research and development system like that of many industrial nations is changing due to global competitive pressures and advancements in information technology and electronic commerce Second industry's R D relationship with the academic research community is changing not only because of the global competition but also because of alterations in the level of government support of fundamental research As a result policy makers will need to rethink their approaches to science and technology issues This volume is a collection of essays by scholars about innovative policy in the knowledge based economy By knowledge based economy we mean one for which economic growth is based on the creation distribution and use of technology As such innovation policy in such an economy must enhance the creation distribution and use of knowledge that leads to the creation distribution and use of technology This volume considers elements of an innovation policy innovation policy and academic research innovation policy in electronic commerce and innovation policy and globalization issues

Public Technology Procurement and Innovation Charles Edquist, Leif Hommen, Lena Tsipouri, 2012-12-06 Public Technology Procurement and Innovation studies public technology procurement as an instrument of innovation policy In the past few years public technology procurement has been a relatively neglected topic in the theoretical and research literature on the economics of innovation Similarly preoccupation with supply side measures has led policy makers to avoid making

very extensive use of this important demand side instrument These trends have been especially pronounced in the European Union There as this book will argue existing legislation governing public procurement presents obstacles to the use of public technology procurement as a means of stimulating and supporting technological innovation Recently however there has been a gradual re awakening of practical interest in such measures among policy makers in the EU and elsewhere For these and other related measures this volume aims to contribute to a serious reconsideration of public technology procurement from the complementary standpoints of innovation theory and innovation policy

Success Strategies and Knowledge Transfer in Cross-Border Consulting Operations Roger Svensson, 2012-12-06 *Success Strategies and Knowledge Transfer in Cross Border Consulting Operations* analyzes the international operations of consulting firms Apart from developing a theoretical framework which differs from traditional theories about international trade the main issues analyzed in this book are

- 1 Success determinants when tendering for international consulting contracts
- 2 The choice between exports acquisition of a local firm or establishing a greenfield office when entering foreign markets
- 3 The extent and nature of knowledge transfer to emerging markets
- 4 The role of development agencies in international consulting projects
- 5 The trend towards and consequences of more management services included in international projects
- 6 The effects on competition when state owned consulting firms are allowed to operate in the international market

The empirical analysis of these issues is based on a unique database of individual tender documents which Swedish consulting firms have submitted abroad

Knowledge Capital and the "New Economy" Pontus Braunerhjelm, 2012-12-06 According to its proponents the new economy is associated with sustainable growth increased demand for labor and zero inflation On the micro level this bright avenue into the future is propelled by knowledge capital flexibility and new ways of organizing production such as clusters and networks Progress in information technology together with massive deregulation on the national and the international levels have been credited with setting this development into motion The concept of the new economy has been rapidly embraced by politicians as it seems to offer a way out of the traditional trade off between unemployment and wage inflation However empirical evidence regarding the microeconomic mechanisms of the new economy is scarce

Knowledge Capital and the New Economy Firm Size Performance and Network Production intends to narrow this gap by empirically analyzing the composition of knowledge capital and how knowledge capital is distributed across firms of different size Moreover the impact of knowledge capital on firms profitability and international competitiveness is also examined Finally we compare cluster dynamics and the institutional set up in Europe and the U S with the purpose of identifying regulations that seem to hinder a conducive environment for expanding and dynamic European clusters The results of this study emphasize the role of knowledge capital and flexibility Thus irrespective of how sustainable the new economy turns out to be the policy implications in terms of providing institutions that facilitate knowledge enhancing economic activities flexible markets and transparent incentive structures are undeniable Countries that fail in this respect may find themselves trailing in the international growth and

welfare rankings **Cognitive Developments in Economics** Salvatore Rizzello, 2003-06-26 Cognitive Developments in Economics proposes an interdisciplinary approach to the study of human problem solving choice decision making and change to explain economic transactions and the nature and evolution of organisations and institutions The book contributes to a large spectrum of economic fields such as consumer theory economics of the Technological Change and the Environment Arnulf Grübler, 2010-09-30 Much is written in the popular literature about the current pace of technological change But do we have enough scientific knowledge about the sources and management of innovation to properly inform policymaking in technology dependent domains such as energy and the environment While it is agreed that technological change does not fall from heaven like autumn leaves the theory data and models are deficient The specific mechanisms that govern the rate and direction of inventive activity the drivers and scope for incremental improvements that occur during technology diffusion and the spillover effects that cross fertilize technological innovations remain poorly understood In a work that will interest serious readers of history policy and economics the editors and their distinguished contributors offer a unique single volume overview of the theoretical and empirical work on technological change Beginning with a survey of existing research they provide analysis and case studies in contexts such as medicine agriculture and power generation paying particular attention to what technological change means for efficiency productivity and reduced environmental impacts The book includes a historical analysis of technological change an examination of the overall direction of technological change and general theories about the sources of change The contributors empirically test hypotheses of induced innovation and theories of institutional innovation They propose ways to model induced technological change and evaluate its impact and they consider issues such as uncertainty in technology returns technology crossover effects and clustering A copublication of Resources for the Future RFF and the International Institute for Applied Systems Analysis IIASA *Knowledge Governance* Reasserting the Public Interest, Anna Célia Castro, Rainer Kattel, 2014-10-01 This book argues that the current international intellectual property rights regime led by the World Trade Organization WTO has evolved over the past three decades toward overemphasizing private interests and seriously hampering public interests in access to knowledge and innovation diffusion This approach concentrates on tangible and codified knowledge creation and diffusion in research and development R D that can be protected via patents and other intellectual property rules and regulations In terms of global policy initiatives however it is becoming increasingly clear that the WTO in particular is mostly a conflict resolution facility rather than a global governance body able to generate cooperation and steer international coordinated policy action At the same time rent extraction and profits streaming from legal hyperprotection have become pervasively important for firm strategies to compete in a globalized marketplace Knowledge Governance Reasserting the Public Interest offers a novel approach knowledge governance in order to move beyond the current regime **Networks, Alliances and Partnerships in the Innovation Process** John de la Mothe, Albert N. Link, 2012-12-06 In an era of intense knowledge based globalization and

technology based competition the central role of networks alliances and partnerships is now becoming recognized By looking at the dynamics of these strategic organizational activities leading authors in the field examine in this book how firms align themselves how they use networks and enter into partnerships in order to develop new or radically improved processes and how they introduce new or radically improved products to the market The topic excludes as the primary interest spatial effects such as those found in geographic clusters or in regional innovation systems The focus here is instead on the innovation process and therefore examines framework issues about how we can assess networks of innovators measurement issues for both researchers and official statisticians and impact issues for both industry strategists and policy makers Using an evolutionary perspective and drawing on a range of disciplines *Networks Partnerships and Alliances* explores important issues at the conceptual methodological and comparative levels concerning the construction of comparative advantage

History of Technology Volume 30 Ian Inkster,Angel Calvo,2016-03-31 This book focuses on the development of four key issues in the development of modern Spain knowledge manufacturing energy and telecommunications and public works If technology transfer from advanced nations to less developed systems always worked then the whole world would now be rich That this is not the case is so obvious we might well expect that the history of the processes successes and failures of technology transfer across nations would be a very well established field of enquiry In fact the theme is still a developing one and the present Special Issue centres on the case of Spain as exemplary in many respects The collected essays focus upon the four major themes of knowledge manufacturing energy and telecommunications and public works Essays range in time from the 18th century to the present time from studies of espionage and early links between craftsmen and savants to the institutions of technology from training systems to private enterprise activity or patents to case studies of silk manufacture shipbuilding mining paper making and pharmaceuticals Each essay offers a broad variety of material to bring to bear on a major problem of world development past present and future [Business Networks in Clusters and Industrial Districts](#)

Fiorenza Belussi,Alessia Sammarra,2009-09-10 During the 1980s the Marshallian concept of industrial district ID became widely popular due to the resurgence of interest in the reasons that make the agglomeration of specialised industries a territorial phenomenon worth being analysed The analysis of clusters and IDs has often been limited considering only the local dimension of the created business networks The external links of these systems have been systematically under evaluated This book offers a deep insight into the evolution of these systems and the internal external mechanism of knowledge circulation and learning This means that the access to external knowledge information or R showing that existing capabilities expand when locally embedded knowledge is combined with accessible external knowledge In this view external knowledge linkages reduce the danger of cognitive lock in and over embeddedness which may become important obstacles to local learning and innovation when technological trajectories and global economic conditions change A selection of international experts **Elgar Companion to Neo-Schumpeterian Economics** Horst Hanusch,Andreas Pyka,2007 The

Elgar Companion to Neo Schumpeterian Economics is a cutting edge collection of specially commissioned contributions highlighting not only the broad scope but also the common ground between all branches of this prolific and fast developing field of economics For 25 years economists have been investigating industrial dynamics under the heading of neo Schumpeterian economics which has itself become a mature and widely acknowledged discipline in the fields of innovation knowledge growth and development economics The Elgar Companion to Neo Schumpeterian Economics surveys the achievements of the most visible scholars in this area The contributions to the Companion give both a brief survey on the various fields of neo Schumpeterian economics as well as insights into recent research at the scientific frontiers The book also illustrates the potential of neo Schumpeterian economics to overcome its so far self imposed restriction to the domains of technology driven industry dynamics and to become a comprehensive approach in economics suited for the analysis of development processes in all economic domains Integrating both the public sector and financial markets the book focusses on the co evolutionary processes between the different domains As a roadmap for the development of a comprehensive neo Schumpeterian theory the Companion will be an invaluable source of reference for researchers in the fields of industrial dynamics and economic growth and academics and scholars of economics generally PhD students will find the Companion an indispensable general introduction to the field of neo Schumpeterian economics It will also appeal to politicians and consultants engaged in national and international policy as the Companion deals with the highly important and ever topical phenomena of economic development

Path Dependence and Creation Raghu Garud, Peter Karnoe, 2013-05-13 The editors aware of the recent work in evolutionary theory and the science of chaos and complexity challenge the sometimes deterministic flavor of this subject They are interested in uncovering the place of agency in these theories that take history so seriously In the end they are as interested in path creation and destruction as they are in path dependence This book is compiled of both theoretical and empirical writings It shows relatively well known industries such as the automobile biotechnology and semiconductor industries in a new light It also invites the reader to learn more about medical practices wind power lasers and synthesizers Primarily written for academicians researchers and PhD students in fields related to technology management this book is research oriented and will appeal to all managers

Rethinking Regional Innovation and Change: Path Dependency or Regional Breakthrough Gerhard Fuchs, Philip Shapira, 2006-02-17 Rethinking Regional Innovation and Change brings together papers from leading international scholars in the field of regional development and policy The contributors examine the interactions between path dependent developments institutions and governance structures that influence regional innovation capacity Up to date case studies present diverse theoretical perspectives from economics political science geography planning and public policy Taken as a whole the volume offers a broad and up to date perspective on the inheritance aspect of an area's future Without exception the chapters are insightful interesting and a pleasure to read Let us hope that this excellent work will find its way to the desks of authorities in charge for regional policy

If anything the book still urges policy makers to start from the simple piece of wisdom that regions tend to go from where they are coming Paradoxically it is from this very notion of path dependency that most regional breakthroughs can be expected Gert Jan Hospers Regions Volume 256 April 2005 New Frontiers in the Economics of Innovation and New Technology Cristiano Antonelli, Dominique Foray, Bronwyn H. Hall, W. Edward Steinmueller, 2006-01-01 This Festschrift explores the truly exceptional breadth and depth of Paul David's work focusing upon his contributions to the topics of path dependence the economics of knowledge and the diffusion of technology The book consists of 15 papers plus an introduction by the editors and an entertaining postscript by Dominique Foray For economic historians the papers on path dependence assembled in this book and particularly the conceptual paper by Antonelli should be essential reading Nikolaus Wolf Economic History Review Recent research on the economics of innovation has acknowledged the importance of path dependence and networks in the evolution of economies and the diffusion of new techniques products and processes These are topics pioneered by Paul A David one of the world's leading scholars in the economics of innovation This outstanding collection provides a fitting tribute to the diversity and depth of Paul David's contributions The papers included range from simulation models of the evolution of market structure in the presence of innovation through historical investigations of knowledge networks and empirical analysis of contemporary networks to the analysis of the diffusion of innovations using simulation and analytic models and of the diffusion of knowledge using patent data With an emphasis on simulation models data analysis and historical evidence this book will be required reading for researchers in innovation economics and regional development as well as economists sociologists and historians of innovation and intellectual property

The Enigmatic Realm of **Economics Of Localized Technological Change And Industrial Dynamics**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Economics Of Localized Technological Change And Industrial Dynamics** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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