

Innovazione Tecnologica E Sviluppo Industriale Nel Secondo Dopoguerra

This volume provides an overview of current research in the history of Italian technology in the long run, from the early Middle Ages to the 20th century. The contributors focus on different aspects of Italian creativity in a local, transnational and global dimension, tracing the trajectory from primacy to relative decline. The themes range from the creation and establishment of new technologies in laboratories or enterprises, the processes of learning, diffusion, and copying and the institutions involved in the generation of a national technological capability and innovation system. Comparative studies are included in order to illustrate special features of the Italian case. The industries covered in this volume range from silk, iron and steel production, to electricity generation and telecommunications. Special Issue: Italian Technology from the Renaissance to the 20th Century Edited by Anna Guagnini and Luca Mola Included in this volume: Inventors, Patents and the Market for Innovations in Renaissance Italy The Microcosm: Technological Innovation and the Transfer of Mechanical Knowledge in the Habsburg Empire of the Sixteenth century Diamonds in Early Modern Venice: Technology, Products and International Competition A Global Supremacy. The Worldwide Hegemony of the Piedmontese Reeling Technologies, 1720s-1830s Raw Materials, Transmission of Know-How and Ceramic Techniques in Early Modern Italy: a Mediterranean perspective Anabaptist Migration and the Diffusion of the Maiolica from Faenza to Central Europe A Bold Leap into Electric Light. The Creation of the Società Italiana Edison, 1880-1886 Keeping Abreast with the

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Technology of Science. The Economic Life of the Physics Laboratory at the University of Padua, 1847-1857 Mechanics “Made in Italy”: Innovation and Expertise Evolution. A Case Study from the Packaging Industry, 1960-98 Telecommunications Italian Style. The shaping of the constitutive choices (1850-1914) Beyond the Myth of the Self-taught Inventor. The Learning Process and Formative Years of Young Guglielmo Marconi Technology Transfer, Economic Strategies and Politics in the Building of the First Italian Submarine Telegraph Lights and Shades: Italian Innovation Across the Centuries European Steel vs Chinese Cast-iron: From Technological Change to Social and Political Choices (4th Century BC-18th Century AD) The Italian National Innovation System. A Long Term Perspective, 1861-2011

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Recent developments in economics have gone from the recognition of the importance of innovation for growth and the exploration of innovation mechanisms to the incorporation of the results of the previous research into economic models. An important lesson to be drawn from all this research is that a purely macro-based analysis of growth is not enough. The various mechanisms of innovation creation and diffusion, the importance of agent heterogeneity, of market selection processes, of the internal organization of the firm and of organizational routines, and the obsolescence and the consequent emergence of new types of capital goods are a few examples of

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micro-economic phenomena that contribute decisively to macro-economic development. The papers in this volume approach those issues from a Schumpeterian point of view and tackle issues like the growing importance of knowledge and human capital; increasing returns and path dependence; the role of variety in economic growth; competition and industry evolution.

L'innovazione un ingrediente essenziale del processo di sviluppo economico e sociale. Essa sostiene la produttività, dalla quale dipende l'accrescimento della produzione e dei redditi; contribuisce al miglioramento della qualità e all'ampliamento della varietà dei prodotti e, infine, può dare soluzione ai molti problemi che ostacolano il conseguimento di un duraturo benessere sociale, come, ad esempio, quelli riguardanti la qualità dell'ambiente. Da tempo molteplici indicatori segnalano che in Europa e, soprattutto, in Italia il processo innovativo incontra difficoltà. Le strategie di intervento, definite anche a livello europeo, hanno dato esiti deludenti e ci ha contribuito a rendere più grave la crisi in atto. Si rende, perciò, necessaria una rinnovata riflessione sulle più efficaci politiche per l'innovazione. Questo volume, partendo dall'analisi della situazione in Europa e in Italia e facendo uso di rigorosi modelli analitici, fornisce indicazioni su come disegnare nel modo più appropriato queste politiche, sugli obiettivi che dovrebbero perseguire e gli strumenti che dovrebbero utilizzare.

L'unificare il momento produttivo e l'innovazione inventiva, quale passaggio dal pratico al suggestivo, non può ridursi alla sola applicazione delle tecniche convenzionali: la

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progettazione presuppone una tecnica che si realizza mettendo in scena l'immaginario e rendendo comunicanti e non sovrapposte le esperienze culturali e progettuali provenienti dai più diversi campi". [Eduardo Vittoria]

Drawing on Kaleckian and Kaldorian approaches, *Political Economy of Contemporary Italy: The Economic Crisis and State Intervention* explores the reasons behind the stagnation of the Italian economy from the 1970s and suggests policy solutions to ease the crisis. The central thesis of the book is that from the early 1990s Italy experienced a constant reduction of both private and public investment which, combined with increasing labour precariousness and wage moderation, contributed to the decline of both labour productivity and economic growth. It is argued that lack of industrial policies amplified the problem of the poor macroeconomic performance, since Italian firms – small-sized and non-innovating – were incapable of staying competitive on the global scene. Net exports did not compensate for the decline of public spending, private investment and consumption. It is also shown that, in these respects, Italy presents an interesting case study with wider ramifications for it was involved in the global process of intensifying the neoliberal agenda but at a faster rate than other OECD countries. The book concludes with a call for an alternative economic policy in order to promote innovation, reduce unemployment and stimulate economic growth. This book marks a significant contribution to the literature on the recent history of the European economy, Italian studies, and the history of economic thought.

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The extent to which firms can react creatively to rather than adjust passively against new techniques and practices is dependent on their command of technological knowledge and relative competence. This book explores the characteristics of the path dependent dynamics of localized technological change, demonstrating how the economics of complexity can inform our understanding of the economics of innovation and vice versa. The book is structured in three parts: part one focuses on the ingredients of the economics of localized technological change, focusing on the legacies of the key economists and a critical assessment. Part two explores the governance of the generation, dissemination, use and exploitation of localized technological knowledge. Part three elaborates on the basic dynamic mechanisms of localized technological change, combining theory with specific empirical models. The final perspectives articulate the relations between the economics of localized technological change, the economics of path dependence and the challenge of the emerging economics of complexity.

Questo testo universitario, dedicato all'innovazione tecnologica di prodotto e di processo, alla ricognizione dei fondi messi a disposizione dall'Italia e dalla Unione Europea per il finanziamento dei programmi di innovazione e alla illustrazione di esempi tratti da casi reali, è destinato innanzitutto agli studenti di Ingegneria, in particolare a quelli dei corsi di laurea dell'Area industriale (Ingegneria Gestionale, Meccanica ed Energetica) ma anche agli ingegneri che già operano nelle imprese industriali e nelle società di Ingegneria. Negli anni dal 1990 al 2010 l'autore, su incarico dal Ministero delle Attività Produttive, ha redatto la relazione

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valutativa di 41 programmi di innovazione presentati da Imprese industriali per accedere a fondi di finanziamento sul Fondo rotativo per l'innovazione tecnologica (Legge n. 46/1982). Nel testo sono riportati 27 casi reali, corrispondenti ad altrettanti programmi scelti fra i 41 valutati, che sono sembrati particolarmente adatti alla formazione degli allievi ingegneri per il loro elevato livello sia sul piano metodologico sia su quello dei contenuti in termini di ricerca applicata, sviluppo e ingegnerizzazione di prodotti e processi innovativi. Dei casi reali presentati 15 riguardano l'industria meccanica, 5 l'industria alimentare, 2 per ciascuna l'industria tessile e l'industria del legno, 1 per ciascuna l'industria del vetro, il comparto della distribuzione gas e il comparto della depurazione e trattamento dei reflui. Sei casi (capitoli 3-8) sono relativi a programmi di innovazione di prodotto per il mercato finale. Cinque casi (capitoli 9-13) sono relativi a programmi di innovazione di prodotto costituito da macchine o attrezzature per l'industria a valle impegnata nel migliorare il proprio processo produttivo. Sette casi (capitoli 14-20), sono relativi a programmi di innovazione dell'intero processo dell'industria proponente. Sette casi (capitoli 21-27), sono relativi a programmi di innovazione di prodotto consistente in macchine o attrezzature per migliorare il processo produttivo dell'industria proponente stessa. Infine due casi (capitoli 28-29) sono relativi a programmi di innovazione del sistema di controllo del processo produttivo dell'industria proponente. Il principale intendimento di questo testo è quello di aiutare la preparazione dei nostri ingegneri e di favorire la vocazione a promuovere innovazione in coloro che domani opereranno nelle imprese industriali o che già operano in esse e giornalmente sono chiamati a far progredire l'impresa, che ha dato loro fiducia. Infatti una impresa industriale moderna, che vuole avere un futuro sicuro, deve ricorrere alla innovazione di prodotto per poter porre sul mercato una

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varietà di prodotti innovativi corrispondenti alla forte spinta dei consumatori alla personalizzazione dei prodotti, e alla innovazione di processo per poter realizzare i prodotti già presenti nella gamma produttiva a un livello qualitativo equivalente o addirittura superiore ma con costi di produzione e prezzi di vendita inferiori e quindi maggiori opportunità di mercato e più elevata soddisfazione dei consumatori.

Dove inizia l'intelligenza è un saggio che affronta il tema dell'evoluzione da un sistema energetico centralizzato, a base di combustibili fossili e gestione passiva, verso un sistema Distribuito, Rinnovabile e Interattivo (DRI) organizzato in Micro Reti. Il testo costituisce un contributo innovativo all'attuale dibattito sulla codificazione della Low Carbon City e della Smart City, proponendo un'indagine sulle possibilità di sviluppo associate al modello insediativo basato su Micro Reti come occasione per ripristinare le condizioni geografiche locali all'interno dei processi di trasformazione urbana. L'ipotesi di lavoro è presentare un nuovo quadro concettuale di riferimento, con il quale valutare ed interpretare l'eco efficienza di un nuovo modello energetico infrastrutturale, più coerente con le dinamiche in atto.

The slowdown of growth in Western industrialized nations in the last twenty years, along with the rise of Japan as a major economic and technological power (and enhanced technical sophistication of Taiwan, Korea, and other NICs) has led to what the authors believe to be a "techno-nationalism." This combines a strong belief that technological capabilities of a nation; firms are a key source of their competitive process, with a belief that these capabilities are in a sense national, and can be built by national action. This book is about these national systems of technical innovation. The heart of the work contains studies of seventeen countries--from large market-oriented industrialized ones to several smaller high income ones, including a

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number of newly industrialized states as well. Clearly written, this work highlights institutions and mechanisms which support technical innovation, showing similarities, differences, and their sources across nations, making this work accessible to students as well as the scholars of innovation.

This book discusses whether certain approaches to (vocational) education have become mythicized and branded, and the reasons for and consequences of this commodification. Additionally, the book also investigates how researchers are contributing to mythicizing and branding in education. Although transnational and comparative studies are increasingly taking into account historical and cultural ideas, is this a result of the exploitation of historical and cultural research for industrial purposes and education export? Educational brands should attract global customers and advertise countries as smart environments for global investments. This volume presents selected contributions from the 2018 conference of the International Schumpeter Society (ISS). The selected chapters in this volume reflect the state-of-the-art of Schumpeterian economics dedicated to the three conference topics innovation, catch-up, and sustainability. Innovation is driving catch-up processes and is the condition for a transformation towards higher degrees of sustainability. Therefore, Schumpeterian economics has to play a key role in these most challenging fields of human societies' development in the 21st century. The three topics are well suited to capture the great variety of issues, which have the potential to shape the scientific discussion in economics and related disciplines in the years to come. The presented contributions show the broadness and high standard of Schumpeterian analysis. The ideas of dynamics, heterogeneity, novelty, and innovation as well as transformation are the most attractive fields in economics today and offer the most prolific

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interdisciplinary connections now and for the years to come when humankind, our global society, has to master the transition towards sustainable economic systems by solving the grand challenges and wicked problems with which we are confronted today. Therefore, the book is a must-read for scholars, researchers, and students, interested in a better understanding of innovation, catch-up, and sustainability, and Schumpeterian economics in general.

This Oxford Handbook provides a fresh overall view and interpretation of the modern economic growth of one of the largest European countries, whose economic history is less known internationally than that of other comparably large and successful economies. It will provide, for the first time, a comprehensive, quantitative "new economic history" of Italy. The handbook offers an interpretation of the main successes and failures of the Italian economy at a macro level, the research--conducted by a large international team of scholars --contains entirely new quantitative results and interpretations, spanning the entire 150-year period since the unification of Italy, on a large number of issues. By providing a comprehensive view of the successes and failures of Italian firms, workers, and policy makers in responding to the challenges of the international business cycle, the book crucially shapes relevant questions on the reasons for the current unsatisfactory response of the Italian economy to the ongoing "second globalization." Most chapters of the handbook are co-authored by both an Italian and a foreign scholar.

This volume compares the role played by State intervention in the economy in the

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United Kingdom and Italy. In both nations, the State played an important role as Entrepreneur in the 20th century but with different aims in each country. The crisis of 2008/2009 compels us to reconsider State intervention in the economy as a tool that cannot be undervalued.

Agriculture is confronted with changing societal expectations and demands regarding its role in food production and in the countryside. Complying with these expectations and demands will require a comprehensive, far-reaching and therefore far from easy and long-lasting transition of agriculture. This books seeks to explore the seeds of this transition by describing and analysing the production of promoting novelties in relation to to the dominant regime. On a theoretical level this books aims at the integration of hitherto largely disconnected disciplines and bodies of literature.

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Explores the nineteenth- and twentieth-century spread of modern industry to the global periphery to understand the economic, historical, and political implications of how, in the twenty-first century, economies in Asia, Latin America and even sub-Saharan Africa are converging on the historically-wealthy economies of Europe and North America.

This book provides a wide-ranging analysis of change in size and nature of Italian firms, and thus a unique and fascinating perspective on the evolution of one of the major industrial economies of the 20th century. An example of business history as it ought to be done.

Giovanni Federico, European University Institute, Italy This book is necessary reading for a

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real understanding of the evolution of Italian capitalism during the last century. It moves away from a simplified view of the Italian industrial structure as just composed by small enterprises and successfully sheds light on the variety of different forms of enterprises that compose the Italian system. The lively picture that emerges from this book is the one of richer types of enterprises, which have evolved over time and have contributed in different ways to Italian economic growth. Franco Malerba, Bocconi University, Italy Taking an historical perspective, this unique book highlights the evolution of the many diverse forms of business enterprise, and discusses the contribution of these different types of firm to the economic growth of Italy. One important issue that has recently captured the attention and the research efforts of both economists and economic historians has been the debate on varieties of capitalism in the modern world. In this context, the expert contributors analyze the various stages of Italian development that have been characterized by diverse dominating forms of enterprise which, in turn, have adapted to the nature of technological and market opportunities at the institutional, national and international level. This book proposes a new interpretation of the Italian case that utilizes both the structural and macroeconomic perspective of comparative history, as well as the microeconomic perspectives focusing on the strategies of different economic agents. Based on solid quantitative evidence, this original work will prove to be a valuable resource for academics and students of strategy and organization, economic historians and applied economists.

Uno dei fattori di competitività del nostro Paese è certamente la capacità di promuovere le innovazioni e di intensificare la ricerca industriale; le piccole imprese appaiono deboli sul piano della capacità innovativa e i contributi dello Stato per la ricerca diminuiscono notevolmente.

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Pertanto si diffonde sempre di più la voglia di approfittare a pieno delle opportunità create a livello internazionale. L'esperienza nord americana ha evidenziato che l'impostazione e la gestione di azioni complesse che portano ad un vantaggio competitivo del sistema Paese richiedono sia culture manageriali e professionali specifiche, sia metodologie e strumenti appropriatamente sperimentati. Il volume è rivolto a tutti gli studiosi, ricercatori e imprenditori interessati ai diversi filoni della politica della ricerca riconducibili all'ambito dell'innovazione e del trasferimento tecnologico in ambito internazionale.

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