

Contents

Preface	v
PART A Overviews	1
1 An Interpretative Survey of Innovative Behaviour and Diffusion Cristoforo S. Bertuglia, Silvana Lombardo and Peter Nijkamp	3
2 Spatial Dispersion of Technological Innovation: A Review Evert Jan Davelaar and Peter Nijkamp	17
3 Technological Innovation and Diffusion Models: A Review Amnon Frenkel and Daniel Shefer	41
4 Modelling Innovation Diffusion Karmeshu and V.P. Jain	64
PART B Theories and Models	75
5 Firms R&D Investments, Innovation and Market Shares Domenico Campisi, Agostino La Bella, Paolo Mancuso and Alberto Nastasi	77
6 Innovative Behaviour and Complexity in Organized Systems Mario Lucertini and Daniela Telmon	96
7 Technological Innovation, Transport and Location: A Comparative Examination of Four Analytical Models Claudia Azzini, Cristoforo S. Bertuglia and Giovanni A. Rabino	118

8	Telematics, Location and Interaction Flows: The Telemaco Model Silvana Lombardo and Sylvie Occelli	144
9	Innovation and Spatial Agglomeration Dino Martellato	172
10	Structural Change in a Metropolitan Economy: The Chicago Region 1975-2011 Geoffrey J.D. Hewings, Philip R. Israilevich, Michael Sonis and Graham R. Schindler	183
11	Endogenous Technological Change, Long Run Growth and Spatial Interdependence: A Survey Peter Nijkamp and Jacques Poot	213
12	Innovation and Strategy in Space: Towards a New Location Theory of the Firm Maryann P. Feldman and Aydan S. Kutay	239
PART C Empirical Studies and Policies		251
13	Investment Policy and Innovation Management: An Exploratory Analysis Kingsley E. Haynes, Fred Y. Phillips, Nitin S. Pandit and Carlos R. Arieira	253
14	Diffusion and Acceptance of New Products and Processes by Individual Firms Marina van Geenhuizen and Peter Nijkamp	276
15	Innovative Capacity, Infrastructure and Regional Inversion: Is there a Long-Term Dynamic? Luis Suarez-Villa	291
16	Telecommunications Network Externalities and Regional Development: Empirical Evidence Roberta Capello and Peter Nijkamp	306
17	Strategic Adoption of Advanced Communication Systems: Some Empirical Evidence from the Finnish Metal Industry Heli Koski	341

18	Transport Behaviour and Diffusion of Telematics: A Conceptual Framework and Empirical Applications Peter Nijkamp, Gerard Pepping, George Argyrakos, David Banister and Maria Giaoutzi	360
19	Towards a New Theory on Technological Innovations and Network Management: The Introduction of Environmental Technology in the Transport Sector Harry Geerlings, Peter Nijkamp and Piet Rietveld	384
20	Innovative Behaviour, R&D Development Activities and Technology Policies in Countries in Transition: The Case of Central Europe Rolf H. Funck and Jan S. Kowalski	408
	Contributors	431