

# Contents

- 1 Knowledge, Innovation and Regional Development  
*Zoltan J. Acs, Henri L.F. de Groot and Peter Nijkamp* ..... 1

## Part I: Theoretical Background. Concepts and Measurement

- 2 Milieux Innovateurs and Collective Learning: From Concepts to Measurement  
*Roberto Camagni and Roberta Capello* ..... 15
- 3 Entrepreneurship and Innovation in the SME Sector  
*Enno Masurel, Kees van Montfort and Peter Nijkamp* ..... 47
- 4 Networked Alliances and Innovation  
*Luis Suarez-Villa* ..... 65
- 5 The Innovation Decision and Fixed Costs  
*Kees van Montfort, Geert Ridder and Alfred Kleinknecht* ..... 81
- 6 The Knowledge Base, Innovation and Urban Economic Growth  
*William F. Lever* ..... 107
- 7 Constructing an Index for Regional Competitiveness  
*Janne Huovari, Aki Kangasharju and Aku Alelanen* ..... 121

## Part II: Knowledge Spillovers and University Research

- 8 Geographic Spillovers of University Research: on Patent Activities of the High Technology Sectors in Austria  
*Manfred M. Fischer and Attila Varga* ..... 139
- 9 High Technology Employment and Knowledge Spillovers  
*Zoltan J. Acs, Felix R. FitzRoy and Ian Smith* ..... 155
- 10 Universities as Agents in Regional Innovation Systems. Evaluating Patterns of Knowledge-Intensive Collaboration in Austria  
*Martina Fromhold-Eisebith and Doris Schartinger* ..... 173

### **Part III: The ICT Sector and Regional Development**

- 11 ICT and Knowledge Challenges for Entrepreneurs in Regional Economic Development  
*Roger Stough, Rajendra Kulkarni and Jean Paelinck*..... 195
- 12 Newcomers and Innovation in the U.S. Telephone Industry. Then and Now  
*Pat Norton*..... 215
- 13 The Spatial Industrial Dynamics of the ICT Sector in Sweden  
*Charlie Karlsson and Johan Klaesson* ..... 243
- 14 The Multimedia Industry: Networks and Regional Development in a Globalised Economy  
*Gerhard Fuchs* ..... 277

### **Part IV: Regional Case Studies**

- 15 Small Key Tech-Knowledge Firms in Canada: Their Innovation Potential, Structure, and Spatial Adaptation  
*Brian Ceh* ..... 301
- 16 The Location of Technological Innovations within the Japanese Semiconductor Industry  
*Tomokazu Arita and Philip McCann* ..... 321
- 17 Innovative Performance in the Capital Region of Norway  
*Heidi Wiig Aslesen* ..... 345
- 18 Innovation and Firm Location in the Spanish Medical Instruments Industry  
*Manuela P. Pérez and Angel M. Sánchez*..... 365