Handbook of Regional Growth and Development Theories
Revised and Extended Second Edition

Edited by

Roberta Capello
Professor of Regional and Urban Economics, Politecnico di Milano, Italy

Peter Nijkamp
Adam Mickiewicz University, Poznań, Poland, Jheronimus Academy of Data Science (JADS), 's-Hertogenbosch, the Netherlands and the Universitatea Alexandru Ioan Cuza din Iași, Iași, Romania
## Contents

**List of contributors** ix

Introduction to the second edition: novelties and advances 1<br>*Roberta Capello and Peter Nijkamp*

### PART I GROWTH THEORIES AND SPACE

1. Theories of agglomeration and regional economic growth: a historical review 6<br>*Philip McCann and Frank van Oort*

2. Space, growth and development: a historical perspective and recent advances 24<br>*Roberta Capello*

3. Location/allocation of regional growth 48<br>*Gunther Maier and Michaela Trippl*

4. Regional growth and trade in the new economic geography and other recent theories 62<br>*Kieran P. Donaghy*

5. Leadership, institutions and regional economic development and growth 91<br>*Roger R. Stough*

### PART II DEVELOPMENT THEORIES: REGIONAL PRODUCTION FACTORS

6. Agglomeration, productivity and regional growth: production theory approaches 104<br>*Jeffrey P. Cohen, Cletus C. Coughlin and Catherine J. Morrison Paul*

7. Territorial capital and regional development: theoretical insights and appropriate policies 124<br>*Roberto Camagni*

8. Human capital and regional development 149<br>*Alessandra Faggian, Félix Modrego and Philip McCann*

9. Infrastructure and regional development 172<br>*Johannes Bröcker, Dirk Dohse and Piet Rietveld*

10. The nexus of entrepreneurship and regional development 198<br>*Manfred M. Fischer and Peter Nijkamp*

11. Foreign direct investments, global value chains and regional development 218<br>*Laura Resmini*
PART III DEVELOPMENT THEORIES: INNOVATION, KNOWLEDGE AND SPACE

12 Theories of innovation in space: path-breaking achievements in regional science
   Roberta Capello

13 Innovation and space: achievements and prospects
   Camilla Lenzi

14 R&D spillovers and regional development/growth
   Daria Denti

15 Regional development and knowledge
   Börje Johansson and Charlie Karlsson

16 Territorial development and proximity relationships
   André Torre

17 Sustainable development and regional growth revisited
   Amitrajeet A. Batabyal and Peter Nijkamp

18 Spatial clusters and regional development
   Karima Kourtit and Peter Gordon

PART IV REGIONAL GROWTH AND DEVELOPMENT MEASUREMENT METHODS

19 Measuring agglomeration
   Ryohei Nakamura and Catherine J. Morrison Paul

20 Investigating endogenous regional performance
   Robert J. Stimson, William Mitchell, Michael Flanagan and Alistair Robson

21 Spatial-economic disparities and convergence
   Stilianos Alexiadis

22 Heterogeneous reaction versus interaction in spatial econometric regional growth and convergence models
   Julie Le Gallo and Cem Ertur

23 CGE modeling in space: a survey
   Kieran P. Donaghy

24 Modern regional input–output and impact analysis
   Jan Oosterhaven, Karen R. Polenske and Geoffrey J.D. Hewings

PART V REGIONAL GROWTH AND DEVELOPMENT POLICIES

25 Institutions and regional development
   T.R. Lakshmanan and Ken J. Button
Contents  vii

26 Regional policy: rationale, foundations and measurement of effects  550  
Jouke van Dijk, Henk Folmer and Jan Oosterhaven

27 Regional policy models: a review  573  
Ana M.B. Barufi and Eduardo A. Haddad

28 Quantitative evaluation techniques for regional policies  588  
Augusto Cerqua and Guido Pellegrini

29 The regional adjustment model: an instrument of evidence-based policy  607  
John I. Carruthers and Gordon F. Mulligan

30 Economic decline and public intervention: do Special Economic Zones matter?  628  
Peter Friedrich and Chang Woon Nam

Index  657