## Contents

*List of contributors* vii  
*Acknowledgements* x  

### INTRODUCTION  THE NEW PARADIGM OF EVOLUTIONARY ECONOMIC GEOGRAPHY

1 The aims and scope of evolutionary economic geography  
   *Ron Boschma and Ron Martin* 3

### PART 1  CONCEPTUAL CHALLENGES IN EVOLUTIONARY ECONOMIC GEOGRAPHY

2 Generalized Darwinism and evolutionary economic geography  
   *Jürgen Essletzbichler and David L. Rigby* 43

3 The place of path dependence in an evolutionary perspective on the economic landscape  
   *Ron Martin and Peter Sunley* 62

4 Complexity thinking and evolutionary economic geography  
   *Ron Martin and Peter Sunley* 93

5 The spatial evolution of innovation networks: a proximity perspective  
   *Ron Boschma and Koen Frenken* 120

### PART 2  FIRM DYNAMICS, INDUSTRIAL DYNAMICS AND SPATIAL CLUSTERING

6 Entrepreneurship, evolution and geography  
   *Erik Stam* 139

7 Pecuniary externalities and the localized generation of technological knowledge  
   *Cristiano Antonelli* 162

8 The relationship between multinational firms and innovative clusters  
   *Simona Iammarino and Philip McCann* 182

9 Emergence of regional clusters: the role of spinoffs in the early growth process  
   *Michael S. Dahl, Christian R. Østergaard and Bent Dalum* 205

10 A social-evolutionary perspective on regional clusters  
    *Udo Staber* 221

11 Evolutionary economic geography: regional systems of innovation and high-tech clusters  
   *Philip Cooke and Carla de Laurentis* 239
PART 3 NETWORK EVOLUTION AND GEOGRAPHY

12 Clusters, networks and economic development: an evolutionary economics perspective
   Elisa Giuliani 261

13 Reputation, trust and relational centrality in local networks: an evolutionary geography perspective
   Stefano Denicola, Antonella Zucchella and Gabriele Cioccarelli 280

14 The evolution of a strategic alliance network: exploring the case of stock photography
   Johannes Glückler 298

15 Complexity, networks and knowledge flow
   Olav Sorenson, Jan W. Rivkin and Lee Fleming 316

16 The geography of knowledge spillovers: the role of inventors’ mobility across firms and in space
   Stefano Breschi, Camilla Lenzi, Francesco Lissoni and Andrea Vezzulli 353

17 Growth, development and structural change of innovator networks: the case of Jena
   Uwe Cantner and Holger Graf 370

PART 4 INSTITUTIONS, CO-EVOLUTION AND ECONOMIC GEOGRAPHY

18 An evolutionary approach to localized learning and spatial clustering
   Anders Malmberg and Peter Maskell 391

19 Path dependence and path plasticity: the co-evolution of institutions and innovation – the German customized business software industry
   Simone Strambach 406

20 On the notion of co-evolution in economic geography
   Eike W. Schamp 432

21 Locked in decline? On the role of regional lock-ins in old industrial areas
   Robert Hassink 450

PART 5 STRUCTURAL CHANGE, AGGLOMERATION EXTERNALITIES AND REGIONAL BRANCHING

22 The evolution of spatial patterns over long time-horizons: the relation with technology and economic development
   Jan Lambooy 471

23 The information economy and its spatial evolution in English cities
   James Simmie 487

24 An evolutionary model of firms’ location with technological externalities
   Giulio Bottazzi and Pietro Dindo 508

Index 529