Contents

List of contributors		ix	
	roduction arlie Karlsson, Martin Andersson and Therese Norman	1	
PA	RT I GENERAL METHODS IN ECONOMIC GEOGRAPHY AND REGIONAL SCIENCE		
1	Spatial econometrics James LeSage	23	
2	Spatial computable general equilibrium analysis Johannes Bröcker	41	
3	Factor prices and geographical economics Steven Brakman and Charles van Marrewijk	67	
4	Shift-share and its new extensions Kingsley E. Haynes and Jitendra Parajuli	83	
5	Analysis using geographic information systems Paul A. Longley	119	
6	Analysis of spatial concentration and dispersion Giuseppe Arbia, Giuseppe Espa and Diego Giuliani	135	
7	Simultaneous-equations analysis in regional science and economic geography Timo Mitze and Andreas Stephan	158	
8	Neural networks: a class of flexible non-linear models for regression and classification Manfred M. Fischer	172	
9	Social accounting analysis Demetrios Psaltopoulos and Dimitris Skuras	193	
PA	RT II METHODS AND APPROACHES OF REGIONAL ANALYSIS		
10	Local multiplier and economic base analysis Per Thulin	213	
11	Analysis of regional endogenous growth Roberto Basile and Stefano Usai	234	

vi	Handbook of research methods and applications in economic geography	
12	Unity in variety? Agglomeration economics beyond the specialization—diversity controversy Frank van Oort	259
13	Methods and applications of regional innovation systems analysis Bjørn Asheim, Lars Coenen and Jerker Moodysson	272
14	Geographic clustering in evolutionary economic geography Koen Frenken and Ron Boschma	291
15	Methods of analyzing the relationship between new business formation and regional development Michael Fritsch	303
16	Analysis of local social capital Hans Westlund and Yuheng Li	321
17	Regional social network analysis Maureen Kilkenny	342
PAI	RT III METHODS AND APPROACHES OF INTERREGIONAL ANALYSIS	
18	Interregional input—output modeling: spillover effects, feedback loops and intra-industry trade Geoffrey J.D. Hewings and Jan Oosterhaven	369
19	Empirical studies in geographical economics Han-Hsin Chang, Charles van Marrewijk and Marc Schramm	391
20	Accessibility and market potential analysis Johan Klaesson, Johan P. Larsson and Therese Norman	412
21	The impact of private, public and human capital on the US states' economies: theory, extensions and evidence Sandy Dall'erba and Irving Llamosas-Rosas	436
22	Interregional migration analysis Alessandra Faggian, Jonathan Corcoran and Mark Partridge	468
23	Applied spatial interaction modelling in economic geography: an example of the use of models for public sector planning Mark Birkin, Hamzah Khawaldah, Martin Clarke and Graham Clarke	491
PAI	RT IV SPECIFIC ISSUES IN ECONOMIC GEOGRAPHY AND REGIONAL SCIENCE	
24	Regional knowledge production function analysis Attila Varga and Márton Horváth	513

		Contents	vii
25	Qualitative methods in regional program evaluation: an examination of story-based approach Frank Vanclay	of the	544
26	Using social and economic impact assessment to guide local supplier development initiatives Ana Maria Esteves and Galina Ivanova		571
27	Analysing the geography of high-impact entrepreneurship Sierdjan Koster and Nikos Kapitsinis		597
28	Gender-specific dynamics in hours worked: exploring the potential for increasing hours worked in an ageing society Inge Noback, Lourens Broersma and Jouke van Dijk		614

635

Index