

Contents

Introduction

Jens Martin Gurr/Rolf Parr/Dennis Hardt 9

I Metropolitan Space and the Built Environment

Urban Typology, Morphology, Iconography

Wolfgang Sonne 17

Exploratory Statistical Analysis of Spatial Structures in Urban Datasets

René Westerholt 37

Spatial Analysis as a Tool for Architectural and Urban Historians

Cornelia Jöchner 63

Historic Preservation as Change Management: Methods in Context

Ingrid Scheurmann 75

Urban Art History: Cultural Heritage, Flâneurs, and Points of Presence

Barbara Welzel 91

II Metropolitan Functions and Infrastructures

Methods of Central Place Research

Thomas Terfrüchte 115

Methods for the Identification and Analysis of Clusters in Metropolitan Economies: Overview and Comparative Assessment

Matthias Kiese 135

Agent-Based Modelling of Infrastructure Systems	
<i>Johannes Weyer/Marlon Philipp/Fabian Adelt</i>	155
Methodologies for Urban Transport Studies	
<i>Regine Gerike/Joachim Scheiner</i>	167
III Metropolitan Resilience, Sustainability, and Health	
Disaster Risk and Climate Impact Research	
<i>Stefan Greiving</i>	187
Volunteered Geographic Information for Sustainable Urban Development	
<i>Andreas Rienow</i>	205
Assessing Metropolitan Biodiversity	
Using Aquatic Environmental DNA Metabarcoding	
<i>Kamil Hupato/Till-Hendrik Macher/Robin Schütz/Florian Leese</i>	223
Concept and Methods in Urban Public Health	
<i>Susanne Moebus</i>	249
IV Metropolitan Culture(s)	
Storytelling	
<i>Julia Sattler</i>	275
Narrative Analysis	
<i>Julia Sattler</i>	289
Interdiscourse Theory and the Analysis of Collective Symbols	
<i>Rolf Parr</i>	299
V Interdisciplinary and Mixed-Methods	
Approaches to Urban Complexity	
Comparisons	
<i>Julia Sattler</i>	315
Urban Modelling: Quantitative and Qualitative Approaches	
<i>Jochen Gönsch/Jens Martin Gurr</i>	325

Delineating and Typifying Urban Neighbourhoods: A Mixed-Methods Approach	
<i>Thomas Terfrüchte/Susanne Frank</i>	343
Mixed-Methods Monitoring of Large-Scale Urban Development Projects: The Case of Lake Phoenix in Dortmund-Hörde	
<i>Susanne Frank/Verena Gerwinat/Ulla Greiwe/Jörg Peter Schmitt</i>	367
Contributors	383

