Contents

Part I Introduction

1 Introduction to Geodesign Developments in Europe ................. 3
   Danbi J. Lee, Eduardo Dias and Henk J. Scholten

2 Which Way of Designing? ........................................... 11
   Carl Steinitz

Part II Resilience and Sustainability

3 Energy Resilient Urban Planning .................................... 43
   Perry Pei-Ju Yang

4 PICO: A Framework for Sustainable Energy Design ............... 55
   Steven Fruijtier, Sanneke van Asselen, Sanne Hetteringa
   and Maarten Krieckaert

5 Holistic Assessment of Spatial Policies for Sustainable
   Management: Case Study of Wroclaw Larger
   Urban Zone (Poland) .................................................... 71
   Jan Kazak, Szymon Szewranski and Pawel Decewicz

6 Recent Applications of a Land-use Change Model in Support of
   Sustainable Urban Development ..................................... 87
   Eric Koomen and Bart C. Rijken

7 Using Geodesign to Develop a Spatial Adaptation Strategy for
   Friesland ................................................................. 103
   Ron Janssen, Tessa Eikelboom, Jos Verhoeven and Karlijn Brouns

8 Geodesign to Support Multi-level Safety Policy
   for Flood Management .................................................. 117
   Sanneke van Asselen, Henk J. Scholten and Luc Koshiekl

9 The Multi-Layer Safety Approach and Geodesign: Exploring
   Exposure and Vulnerability to Flooding ............................ 133
   Mark Zandvoort and Maarten J. van der Vlist
### Interactive Spatial Decision Support for Agroforestry Management

André Freitas, Eduardo Dias, Vasco Diogo and Willie Smits

**Part III  Heritage and Placemaking**

#### History Matters: The Temporal and Social Dimension of Geodesign

Jan Kolen, Niels van Manen and Maurice de Kleijn

#### Urban Landscape archaeology, geodesign and the city of rome

Gert-Jan Burgers, Maurice de Kleijn and Niels van Manen

#### GIS-based Landscape Design Research: Exploring Aspects of Visibility in Landscape Architectonic Compositions

Steffen Nijhuis

#### 3D LOS Visibility Analysis Model: Incorporating Quantitative/Qualitative Aspects in Urban Environments

Dafna Fisher-Gewirtzman

#### Space Syntax in Theory and Practice

Akkelies van Nes

#### A Standard-based Framework for Real-time 3D Large-scale Geospatial Data Generation and Visualisation over the Web

Massimo Rumor, Eduard Roccatello and Alessandra Scottà

#### Crowd Sourced Public Participation of City Building

Ana Sanchis, Laura Díaz, Michael Gould and Joaquín Huerta

**Part IV  Adopting Geodesign Thinking**

#### Geodesigning ‘From the Inside Out’

Kitty Currier and Helen Couclelis

#### People Centered Geodesign: Results of an Exploration

Simeon Nedkov, Eduardo Dias and Marianne Linde

#### Enhancing Stakeholder Engagement: Understanding Organizational Change Principles for Geodesign Professionals

Lisa A. McElvaney and Kelleann Foster

#### Geodesign in Practice: What About the Urban Designers?

Peter Pelzer, Marco te Brömmelstroet and Stan Geertman

#### Open Geospending: Bridging the Gap Between Policy and the Real World

Egbert Jongsma

#### Towards Geodesign: Building New Education Programs and Audiences

John P. Wilson
Geodesign by Integrating Design and Geospatial Sciences
Lee, D.; Dias, E.; Scholten, H.J. (Eds.)
2014, XIII, 369 p., Hardcover
ISBN: 978-3-319-08298-1