Contents

1 Introducing a Research Perspective in Urban Design and Representation ............................................. 1
   Barbara E.A. Piga, Eugenio Morello and Rossella Salerno

Part I Conceptual and Experiential Approaches

2 Mapping Urban Environment by Geometry(es) and Perception(s). ........................................... 11
   Rossella Salerno

3 Experiential Simulation for Urban Design: From Design Thinking to Final Presentation. ............... 23
   Barbara E.A. Piga

4 To Be There, or not to Be. Designing Subjective Urban Experiences ......................................... 37
   Marco Boffi and Nicola Rainisio

Part II Digital Modelling and Visibility Studies

5 Visibility Analysis for Open Spaces in Urban Areas: Coupling Environmental Quality and Human Comfort Assessment .......................... 57
   Eugenio Morello

6 Motion Perspectives Integration in the Qualification of the Urban Spaces: Towards a 2D- and a 3D-Enrichment of the S-Partition Method. ............. 69
   Thomas Leduc, Francis Miguet and Vincent Tourre

7 Evolution of Planning with Visual Conditions .................................. 83
   Ásmund Izaki and Christian Derix
Part III   Physical Models in the Professional Practice

8   The Model as Experience. Experience with Models .................. 103
    Andrea Rossetto

9   Architectural Modeling in a Fab Lab ................................. 117
    Alessandro Capati

10  Daylight Simulation .................................................. 127
    Giulio Maria Podestà

Part IV   Mapping and Simulation

11  Mapping Venice. From Visualizing Venice to Visualizing Cities ...... 143
    Andrea Giordano

12  Listen Through the Map ............................................. 153
    Valerio Signorelli

13  Application of Visual Simulation in Urban Renewal Projects ...... 165
    Anetta Kępczyńska-Walczak and Bartosz M. Walczak

Part V   Frontier Tools

14  Outdoor Augmented Reality for Urban Design and Simulation ...... 181
    Chiara Calabrese and Luciano Baresi

15  Luminous Planning Table: TUI as Support for Education
    and Public Participation ............................................. 191
    Laura Cibien

16  Mobile Devices and Urban Ambiances: How Connected
    Wearable Tools Change the Ways We Perceive
    and Design Public Spaces ........................................... 207
    Myriam Servières, Gwendoline L’Her and Daniel Siret

Authors Short Bio ....................................................... 217
Urban Design and Representation
A Multidisciplinary and Multisensory Approach
Piga, B.E.A.; Salerno, R. (Eds.)
2017, VIII, 223 p. 89 illus., 71 illus. in color., Hardcover
ISBN: 978-3-319-51803-9