

Contents

1	Introduction	1
1.1	Aims	1
1.2	Approach	2
1.3	The Layout of the Book	4
2	We Live in Informational Landscapes	5
2.1	An Introduction to the Data City	5
2.2	People-Generated Landscapes: Potentialities of Social Media Data	6
2.3	Applications Targeting Urban Issues	8
2.3.1	Characterizations of Geographic Areas	9
2.3.2	Temporal Dimension	10
2.3.3	Places Identities and Relationships Among Geographic Areas	10
2.3.4	Emerging Behavior	10
2.3.5	Political Attitudes: Acceptance/Feeling Toward Local Policies and Urban Interventions	11
2.4	Existing Work	11
2.5	Specificities of the Research Trajectory	14
3	Depicting the Data City	17
3.1	Visualizing Geo-Referenced Data	17
3.2	A Taxonomy of Geo-Referenced Data Visualization	18
3.3	Our Strategies to Visualize Geo-Located Social Media Data	22
4	Methodological Framework	23
4.1	A Framework for Interpreting Geo-Referenced Social Media Data	23
4.2	A Process to Investigate Topics of Urban Interest with Geo-Referenced Social Media Data	25
4.3	Evaluating and Assessing our Approach	28

5	Working in the Field	31
5.1	Telltale and Urban Sensing: A Joint Research Trajectory	31
5.2	Technological Architecture	31
5.3	Telltale and Its Design Experiments: A Multidisciplinary Research Approach	34
5.3.1	Overview	34
5.3.2	Instagram, Foursquare, and Twitter Compared	34
5.3.3	Urban Stories	37
5.4	Urban Sensing and Its Design Experiments: Toward an Open Technological Platform	39
5.4.1	Overview	39
5.4.2	Maps of Babel: The City of Languages	40
5.4.3	Geographies of Time	43
5.4.4	Geographies of Time, New York	48
5.4.5	Urban Sketching Tool, the Prototype in Use	51
6	Reflections on Potentialities and Shortcomings of Geo-Located Social Media Analysis	55
6.1	Potentialities	55
6.2	Shortcomings	58
6.3	Final Remarks	60
Appendix 1: List of Case Studies Used for Building the Matrix in Chap. 3		63
Appendix 2: Excerpts from Conversations with Accurat, Lust, and Mobivory		67
References		71
Index		75

Visualizing the Data City

Social Media as a Source of Knowledge for Urban
Planning and Management

Ciuccarelli, P.; Lupi, G.; Simeone, L.

2014, IX, 76 p. 24 illus., Softcover

ISBN: 978-3-319-02194-2