Contents

Part I Network Tools and Analysis

1	Community Detection and Visualization of Networks with the Map Equation Framework Ludvig Bohlin, Daniel Edler, Andrea Lancichinetti, and Martin Rosvall	3
2	Link Prediction	35
3	Network Analysis and Indicators	57
4	PageRank-Related Methods for Analyzing Citation Networks Ludo Waltman and Erjia Yan	83
Pa	rt II The Science System	
5	Systems Life Cycle and Its Relation with the Triple Helix Robert K. Abercrombie and Andrew S. Loebl	103
6	Spatial Scientometrics and Scholarly Impact: A Review of Recent Studies, Tools, and Methods	127
7	Researchers' Publication Patterns and Their Use for Author Disambiguation Vincent Larivière and Benoit Macaluso	147
8	Knowledge Integration and Diffusion: Measures and Mapping of Diversity and Coherence Ismael Rafols	169

Part III Statistical and Text-Based Methods

9	Limited Dependent Variable Models and Probabilistic Prediction in Informetrics Nick Deschacht and Tim C.E. Engels	193
10	Text Mining with the Stanford CoreNLP	215
11	Topic Modeling: Measuring Scholarly ImpactUsing a Topical LensMin Song and Ying Ding	235
12 Por	The Substantive and Practical Significance of Citation Impact Differences Between Institutions: Guidelines for the Analysis of Percentiles Using Effect Sizes and Confidence Intervals Richard Williams and Lutz Bornmann	259
1 41		
13	Visualizing Bibliometric Networks	285
14	Replicable Science of Science Studies Science Studies Katy Börner and David E. Polley Science Studies	321
Ind	lex	343