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   Titolo   Understanding large temporal networks and spatial networks : exploration, pattern searching, visualization and network evolution / / Vladimir Batagelj [and three others]

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   Nota di contenuto   Understanding Large Temporal Networks and Spatial Networks: Exploration, Pattern Searching, Visualization and Network Evolution; Contents; Preface; 1 Temporal and Spatial Networks; 1.1 Modern Social Network Analysis; 1.2 Network Sizes; 1.3 Substantive Concerns; 1.3.1 Citation Networks; 1.3.2 Other Types of Large Networks; 1.4 Computational Methods; 1.5 Data for Large Temporal Networks; 1.5.1 The Main Datasets; 1.5.2 Secondary Datasets; 1.6 Induction and Deduction; 2 Foundations of Methods for Large Networks; 2.1 Networks; 2.1.1 Descriptions of Networks; 2.1.2 Degrees
                         2.1.3 Descriptions of Properties 2.1.4 Visualizations of Properties; 2.2 Types of Networks; 2.2.1 Temporal Networks; 2.2.2 Multirelational Networks; 2.2.3 Two-mode Networks; 2.3 Large Networks; 2.3.1 Small and Middle Sized Networks; 2.3.2 Large Networks; 2.3.3 Complexity of Algorithms; 2.4 Strategies for Analyzing Large Networks; 2.5 Statistical Network Measures; 2.5.1 Using Pajek and R Together; 2.5.2 Fitting Distributions; 2.6 Subnetworks; 2.6.1 Clusters, Clusterings, Partitions, Hierarchies; 2.6.2 Contractions of Clusters; 2.6.3 Subgraphs; 2.6.4 Cuts; 2.7 Connectivity Properties of Networks
                         2.7.1 Walks 2.7.2 Equivalence Relations and Partitions; 2.7.3

Sommario/riassunto	This book explores social mechanisms that drive network change and link them to computationally sound models of changing structure to detect patterns. This text identifies the social processes generating these networks and how networks have evolved.