

1. Record Nr.	UNINA9910830259203321
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Titolo	Cartography and the impact of the quantitative revolution // Colette Cauvin, Francisco Escobar, Aziz Serradj
Pubbl/distr/stampa	London, England ; ; Hoboken, New Jersey : , : iSTE : , : Wiley, , 2010 ©2010
ISBN	1-118-55812-X 1-299-14026-2 1-118-58711-1 1-118-58694-8
Descrizione fisica	1 online resource (444 p.)
Collana	Geographical information systems series Thematic cartography ; ; v. 2
Disciplina	526
Soggetti	Cartography - Data processing Digital mapping Geographic information systems Cartography Visualization
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Cartography and the Impact of the Quantitative Revolution; Title Page; Copyright Page; Table of Contents; General Introduction; PART I. TRANSFORMATIONS OF ATTRIBUTES [Z] AND USE OF QUANTITATIVE METHODS: GENERALIZATION AND MODELING; Part I. Introduction; Chapter 1. From the Description to the Generalization of an Attribute Variable Z; 1.1. Preliminary data analysis: a crucial step; 1.1.1. From classical description to exploratory data analysis (EDA); 1.1.2. Exploratory data analysis and graphical representations; 1.1.3. Quantitative level of measurement and graphical representation 1.2. Discretization: a constraint with several choices 1.2.1. From data to the basic rules; 1.2.2. Choice of the number of classes; 1.2.3. Class limits and ranges; 1.2.4. Discretization and transformation of a variable; 1.3. Two essential requirements: choosing and assessing the methods; 1.3.1. A logic of reasoning; 1.3.2. Guidance for making the

necessary choice; 1.3.3. Guidance and suggestions for making the decision; 1.4. Conclusion; Chapter 2. Generalization of Thematic Attributes; 2.1. Graphical transformations of reduction and generalization
2.1.1. Shared characteristics and constraints of graphical processing techniques
2.1.2. Techniques for quantitative variables; 2.1.3. Graphical techniques for multiple and mixed variables: taxonomic tree, scalogram, seriated matrix; 2.2. From mathematical structuring to standardized cartographic results; 2.2.1. A factorial method for quantitative variables; 2.2.2. Methods for frequencies and mixed variables; 2.3. From mathematical classifications to the interpretation of the results; 2.3.1. Principles and review of classifications; 2.3.2. Representations and hierarchical classifications
2.3.3. Non-hierarchical classifications
2.4. Conclusion; Chapter 3. Modeling Thematic Attributes: Generalizable Cartographic Choices; 3.1. Thematic models based on the concept of regression; 3.1.1. Common characteristics to regression models and to their representations; 3.1.2. Basic model: simple regression; 3.1.3. From statistical logic to thematic logic; 3.2. Models incorporating space via calculations; 3.2.1. A model linked to the concept of regression: trend surfaces; 3.2.2. A model integrating spatial component via distance: the potential model
3.3. Models incorporating space by construction and by calculations
3.3.1. A model of spatial interaction: the isochronous gravity model; 3.3.2. A model based on the DAI - cellular automata - a method of simulating the evolution of geographic space; 3.4. Conclusion; Part I. Conclusion; PART II. NEW CARTOGRAPHIC TRANSFORMATIONS AND 3D REPRESENTATIONS; Part II. Introduction; Chapter 4. Cartographic Transformations of Position; 4.1. Cartographic transformations of position: aims and characteristics; 4.1.1. Double objectives; 4.1.2. Characteristics; 4.2. Thematic CTPs of weight
4.2.1. Characteristics and classification criteria

Sommario/riassunto

This series in three volumes considers maps as constructions resulting from a number of successive transformations and stages integrated in a logical reasoning and an order of choices. Volume 2 focuses on the impact of the quantitative revolution, partially related to the advent of the computer age, on thematic cartography.
