

Introduction à l'analyse spatiale (Complément de cours)

Serge LHOMME

Introduction historique et épistémologique

La géographie s'appuie historiquement, en particulier en France, sur une démarche d'étude des phénomènes dans leur singularité. Cette démarche est qualifiée *d'idiographique*. Ainsi, la géographie s'est développée en s'appuyant notamment sur de longues monographies concernant des territoires délimités par des caractéristiques physiques, culturelles, historiques ou sociales. Pour la géographie « régionale », cette démarche est fondamentale. En effet, la géographie régionale recherche notamment en quoi chaque combinaison régionale est originale. Le postulat central de la géographie régionale tend même à considérer chaque région étudiée comme unique. Tout le savoir géographique est alors mis au service de cette unicité en évacuant probablement ce qui peut être le plus fécond : c'est à dire ce qui est commun entre les régions. La démarche idiographique tend ainsi à s'opposer à une géographie « générale » qui étudierait les processus et les phénomènes pris par thème, classant les phénomènes et cherchant les règles générales qui les régissent.

L'analyse spatiale est une démarche qui, à l'instar de la géographie « générale », recherche les similarités entre les phénomènes et tente d'établir des *lois* (des règles). Cette démarche est qualifiée de *nomothétique*. En l'occurrence, comme son nom l'indique, l'analyse spatiale recherche ou applique des *lois spatiales*. Ces lois peuvent dans certains cas être testées afin de déterminer leur validité. L'analyse spatiale est donc généralement présentée comme une démarche « hypothético-déductive », puisque les similarités identifiées entre les phénomènes observés peuvent constituer des hypothèses de travail aboutissant à la formulation de *modèles* qui seront mis à l'épreuve. Néanmoins, contrairement aux sciences physiques, les modèles n'ont pas tous vocation à décrire le comportement réel des systèmes étudiés, puis à être testé et validé. Ils peuvent plus simplement servir comme modèle de comparaison. Pour résumer, « l'analyse spatiale met en évidence des structures et des formes d'organisation spatiale récurrentes, que résumant par exemple les modèles centre-périphérie, les champs d'interaction de type gravitaire, les trames urbaines hiérarchisées, les divers types de réseaux ou de territoires, etc. Elle analyse des processus qui sont à l'origine de ces structures, à travers des concepts comme ceux de distance, d'interaction, de portée spatiale, de polarisation, de centralité, de stratégie ou choix spatial, de territorialité... Des lois de la spatialité relient ces formes et ces processus, et sont intégrées dans des théories et des modèles du fonctionnement et de l'évolution des systèmes » (Denise Pumain).

Malgré une apparente opposition entre ces deux démarches, celles-ci ne sont pas incompatibles. Bien au contraire, elles apparaissent complémentaires. En effet, la démarche idiographique ne récuse pas toute possibilité de généralisation au nom de l'irréductible unicité des lieux et la démarche nomothétique n'est pas nécessairement réductrice et oublieuse des spécificités locales. C'est en fait entre ces deux attrait de la géographie, la recherche de la régularité d'une part et la fascination pour ce que l'on ne verra pas deux fois

Introduction Alanalyse Spatiale

Jean Dubé, Diègo Legros



Introduction Alanalyse Spatale:

Introductory Spatial Analysis David Unwin, 2024-06-29 First published in 1981 Introductory Spatial Analysis uses ideas from dimensional analysis and stochastic process theory to provide a consistent logical framework for map analysis Geography is about maps so the saying goes yet there is no other textbook for geography students that combines the discussion of maps with a treatment of quantitative methods of map analysis This book differs from most other quantitative or cartographic geography texts in three respects first it is a geography not a statistics book and therefore problems are examined by looking at the types of data used and the varieties of maps drawn and then at the analytical procedures that may be used to detect significant spatial patterns second no attempt is made to introduce tests that treat data without reference to their spatial location and third no advice is offered on specifically cartographic questions of map drawing and design David Unwin s text will serve as a valuable introduction to the techniques of spatial analysis that are so important in contemporary geographical study

The Three Dimensions of Archaeology Hans Kamermans, Wieke de Neef, Chiara Piccoli, 2016-03-31 This volume brings together presentations from two sessions organized for the XVII World UISPP Conference The scientific value of 3D archaeology and Detecting the Landscape s

Use of Space and Domestic Areas: Functional Organisation and Social Strategies Luc Jallot, Alessandro Peinetti, 2021-12-16 The organization of inhabited space is the direct expression of the deep integration of societies with their cultural and natural environment Contributions in this volume show the progress of research in terms of understanding the use of space on different scales from the household to the village focusing on Neolithic and Bronze Age contexts

Thematic Cartography, Cartography and the Impact of the Quantitative Revolution Colette Cauvin, Francisco Escobar, Aziz Serradj, 2013-01-24 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

Demography: Analysis and Synthesis, Four Volume Set Graziella Caselli, Jacques Vallin, Guillaume Wunsch, 2006-01-03 This four volume collection of over 140 original chapters covers virtually everything of interest to demographers sociologists and others Over 100 authors present population subjects in ways that provoke thinking and lead to the creation of new perspectives not just facts and equations to be memorized The articles follow a theory methods applications approach and so offer a kind of one stop shop that is well suited for students and professors who need non technical summaries such as political scientists public affairs specialists and others Unlike shorter handbooks Demography Analysis and Synthesis offers a long overdue thorough treatment of the field Choosing the analytical method that fits the data and the situation requires insights that the authors and editors of Demography Analysis and Synthesis have explored and developed This extended examination of demographic tools not only seeks to explain the analytical tools themselves but also the relationships between general population dynamics and their natural economic social political and cultural environments

Limiting themselves to human populations only the authors and editors cover subjects that range from the core building blocks of population change fertility mortality and migration to the consequences of demographic changes in the biological and health fields population theories and doctrines observation systems and the teaching of demography The international perspectives brought to these subjects is vital for those who want an unbiased rounded overview of these complex multifaceted subjects Topics to be covered Population Dynamics and the Relationship Between Population Growth and Structure The Determinants of Fertility The Determinants of Mortality The Determinants of Migration Historical and Geographical Determinants of Population The Effects of Population on Health Economics Culture and the Environment Population Policies Data Collection Methods and Teaching about Population Studies All chapters share a common format Each chapter features several cross references to other chapters Tables charts and other non text features are widespread Each chapter contains at least 30 bibliographic citations

Neolithic and Bronze Age Studies in Europe: From Material Culture to Territories Marie Besse,François Giligny,2021-04-08 Eight papers consider the neolithisation of the Iberian Peninsula faunal exploitation in early Neolithic Italy the economic and symbolic role of animals in eastern Germany Copper Age human remains in central Italy territories and schematic art in the Iberian Neolithic and finally Bronze age hoards at a European scale

Regional Disparities in Small Countries Daniel Felsenstein,2005-05-09 This book challenges the common perception that significant regional disparities do not exist in small countries As small developed countries become increasingly competitive and their economic structures resemble those of the large a re assessment of the regional consequences of these changes is of timely importance Regional Disparities in Small Countries presents a systematic discussion of the unique theoretical methodological and measurement challenges in analyzing regional inequalities in small countries and a series of empirical analyses addressing the issue of regional convergence and divergence in these countries With contributions from leading regional scientists and economists this book also examines the policy experience of small countries in closing regional gaps and the effectiveness of public interventions in this field see Reviews

Territorial Analysis of Environments Etienne Cossart,Anne Rivière-Honegger,2024-12-12 Territories are currently faced with a wide range of environmental challenges but suffer from a lack of access to the information and biophysical data that characterizes these challenges Territorial Analysis of Environments sheds light on how the data produced on environmental change needs to be processed completed and disseminated so that local players can take ownership of it The aim is to present methods for developing local regional or even global indicators of the changes underway as well as to understand the logic of the players acting in a given area To this end this book places great emphasis on the notions of systems and the modeling approaches used to formalize them It also presents the data available and the methods for developing an analysis of their spatial dimension This is based on a wide range of case studies combining environmental data and stakeholder games

Econométrie spatiale appliquée des microdonnées Jean Dubé,Diège Legros,2014-04-01 Si l'effet de proximité spatiale

sociale cognitive etc sur les comportements est un fait généralement reconnu les modèles conomiques n'ont incorporé cette réalité que depuis peu L'aspect spatial apporte ici une richesse d'information qu'il est pertinent de considérer lors des analyses empiriques quantitatives Cet ouvrage propose une analyse progressive et complète de la réalité spatiale et spatio-temporelle des microdonnées consommateurs et entreprises Il expose la construction de matrices de pondérations le calcul de statistiques descriptives puis conclut sur une présentation détaillée des types de modèles existants Des exemples détaillés sont présentés à la fin de chacun des chapitres permettant de faire le lien entre la théorie et la pratique Economie spatiale appliquée des microdonnées s'adresse un public ayant des bases en économie et désireux initier l'économie spatiale

Analyse spatiale de l'information géographique Régis Caloz, Claude Collet, 2011-01-01 Les systèmes d'information géographique SIG caractérisent la fois un modèle numérique de l'espace géographique mais aussi l'ensemble des outils de traitement de l'information associés Combinant informations géographiques et statistiques ils permettent un suivi cartographique et quantitatif des dynamiques territoriales La plupart des collectivités publiques ont aujourd'hui achevé l'acquisition et la structuration de ce type de données Les bases résultantes sont mises à disposition du public et des praticiens mais la richesse et la diversité des informations qu'elles proposent rendent leur exploitation complexe dans la mesure où elles requièrent des connaissances développées en analyse spatiale Cet ouvrage se propose de procurer au lecteur l'ensemble des outils nécessaires la maîtrise et l'exploitation de ces méthodes notamment dans le cadre de la géostatistique appliquée aux phénomènes discrets et continus de l'analyse du relief de la formulation de requêtes spatiales des aptitudes des réseaux d'accessibilité et zones d'influence et des objets zonaux analyse multivariée associée l'aide à la décision de la dynamique spatiale ou de la propagation des incertitudes Manuel sans équivalent couvrant l'ensemble du domaine de l'exploitation des informations spatiales et de leur analyse dans une perspective d'aide à la décision Traspédagogique trois niveaux de lecture bases compréhension scientifique des phénomènes méthodes opérationnelles nombreuses questions de réflexion et suggestions de lecture en fin de chaque chapitre Clair et didactique cet ouvrage s'adresse un large public d'étudiants en géosciences et en sciences de l'environnement mais aussi de géographes et d'ingénieurs praticiens la recherche d'un ouvrage de référence 4e de couverture

L'espace touristique Catherine Dreyfus-Signoles, 2002 Détaille le phénomène touristique avec une première partie d'approche historique qui porte sur les espaces touristiques couramment représentés et une deuxième partie qui traite des acteurs

Le développement décentralisé : dynamique spatiale de l'économie et planification régionale Bernard Planque, 1984-01-01 T00:00:00+01:00 Cet ouvrage est une réédition numérique d'un livre paru au XXe siècle désormais indisponible dans son format d'origine

Introduction à la philosophie René Le Senne, 1925

Models in Spatial Analysis Lena Sanders, 2013-03-01 This title provides a broad overview of the different types of models used in advanced spatial analysis The models concern spatial organization location factors and spatial interaction patterns from both static and dynamic perspectives Each chapter gives a broad overview of the subject covering both theoretical developments and practical applications The advantages of an

interdisciplinary approach are illustrated in the way that the viewpoint of each of the individual disciplines are brought together when considering questions relevant to spatial analysis The authors of the chapters come from a range of different disciplines geography economy hydrology ecology etc and are specialists in their field They use a range of methods and modeling tools developed in mathematics statistics artificial intelligence and physics

Épidémiologie et géographie Marc Souris, 2019-04-01 Les phénomènes de santé impliquent très souvent des relations spatiales et temporelles entre les individus et des facteurs de risque liés à la géographie et l'environnement L'utilisation de la localisation dans l'analyse et la compréhension des phénomènes de santé est donc essentielle L'épidémiologie et la géographie proposent une vue d'ensemble des objectifs des principes des méthodes et des outils de l'analyse spatiale et des systèmes d'information géographique appliqués au domaine de la santé Il constitue une introduction pratique à l'analyse spatio-temporelle pour l'épidémiologie et la géographie de la santé avec une approche pédagogique illustrée par des exemples concrets Cet ouvrage présente un aperçu simple et complet de l'utilisation de l'analyse spatiale pour les étudiants en épidémiologie les professionnels de santé publique les épidémiologistes les géographes de la santé et les spécialistes en études de santé environnement

Statistical, Mapping and Digital Approaches in Healthcare Gilles Maignant, Pascal Staccini, 2018-11-19 Statistical Mapping and Digital Approaches in Healthcare addresses all health territories starting from the analysis of geographical data health data population data health data systems and environmental data to new health areas Health 3.0 i.e. digital health territories Specific tools are used to question environmental changes such as health statistics mapping mathematical models optimization models and serious games Uniquely combines the approaches of mathematicians geographers and physicians to the analysis of health territories Presents views that are based on an interdisciplinary framework proposing a new look on health Ideal for both clinicians and policymakers

CAA2014: 21st Century Archaeology F. Giligny, F. Djindjian, L. Costa, 2015-03-31 This volume brings together a selection of papers proposed for the Proceedings of the 42nd Computer Applications and Quantitative Methods in Archaeology conference CAA hosted at Paris 1 Pantheon Sorbonne University from 22nd to 25th April 2014

Land Surface Remote Sensing in Agriculture and Forest Nicolas Baghdadi, Mehrez Zribi, 2016-09-15 The environmental and economic importance of monitoring forests and agricultural resources has allowed remote sensing to be increasingly in the development of products and services responding to user needs This volume presents the main applications in remote sensing for agriculture and forestry including the primary soil properties the estimation of the vegetation's biophysical variables methods for mapping land cover the contribution of remote sensing for crop and water monitoring and the estimation of the forest cover properties cover dynamic height biomass This book part of a set of six volumes has been produced by scientists who are internationally renowned in their fields It is addressed to students engineers Masters PhD engineers and scientists specialists in remote sensing applied to agriculture and forestry Through this pedagogical work the authors contribute to breaking down the barriers that hinder the use of radar imaging techniques Provides clear and concise

descriptions of modern remote sensing methods Explores the most current remote sensing techniques with physical aspects of the measurement theory and their applications Provides chapters on physical principles measurement and data processing for each technique described Describes optical remote sensing technology including a description of acquisition systems and measurement corrections to be made *Two-Dimensional Wavelets and their Relatives* Jean-Pierre Antoine,Romain Murenzi,Pierre Vandergheynst,Syed Twareque Ali,2008-06-12 Two dimensional wavelets offer a number of advantages over discrete wavelet transforms in particular for analysis of real time signals This book provides thorough and comprehensive treatment of 2 D wavelets with extensive use of practical applications and illustrative examples throughout For engineers physicists and mathematicians *Advances in spatial econometrics / Les avancées en économétrie spatiale* Alexandra Schaffar,2015-07-01 Ce num ro travers neuf articles en fran ais ou en anglais pr sente un ensemble de recherches r centes en statistique et conom trie spatiales qui proposent des avanc es sur le plan m thodologique ou empirique dans cette discipline en plein essor

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