



# **Spatial Analysis**

A Guide for Ecologists

**Marie-Josée Fortin and Mark Dale**

CAMBRIDGE

# Spatial Analysis A Guide For Ecologists

**Jiyuan Zhang**



## **Spatial Analysis A Guide For Ecologists:**

**Spatial Analysis** Mark R. T. Dale, Marie-Josée Fortin, 2014-09-11 Nowadays ecologists worldwide recognize the use of spatial analysis as essential. However, because of the fast growing range of methods available, even an expert might occasionally find it challenging to choose the most appropriate one. Providing the ecological and statistical foundations needed to make the right decision, this second edition builds and expands upon the previous one by encompassing the basic methods for spatial analysis for both complete census and sample data. Investigating updated treatments of spatial autocorrelation and spatio-temporal analysis, introducing detailed explanations of currently developing approaches including spatial and spatio-temporal graph theory, scan statistics, fibre process analysis, and Hierarchical Bayesian analysis. Offering practical advice for specific circumstances such as how to analyze forest Permanent Sample Plot data and how to proceed with transect data when portions of the data series are missing. Written for graduates, researchers, and professionals, this book will be a valuable source of reference for years to come.

*Spatial Analysis* Marie-Josée Fortin, Mark R. T. Dale, 2005-04-21 An overview of the wide range of spatial statistics available to analyse ecological data.

**Spatial Analysis** Mark R. T. Dale, Marie-Josée Fortin, 2014-09-03 Nowadays ecologists worldwide recognize the use of spatial analysis as essential. However, because of the fast growing range of methods available, even an expert might occasionally find it challenging to choose the most appropriate one. Providing the ecological and statistical foundations needed to make the right decision, this second edition builds and expands upon the previous one by encompassing the basic methods for spatial analysis for both complete census and sample data. Investigating updated treatments of spatial autocorrelation and spatio-temporal analysis, introducing detailed explanations of currently developing approaches including spatial and spatio-temporal graph theory, scan statistics, fibre process analysis, and Hierarchical Bayesian analysis. Offering practical advice for specific circumstances such as how to analyze forest Permanent Sample Plot data and how to proceed with transect data when portions of the data series are missing. Written for graduates, researchers, and professionals, this book will be a valuable source of reference for years to come.

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will be a valuable source of reference for years to come *geoENV VII - Geostatistics for Environmental Applications* Peter M. Atkinson, C. D. Lloyd, 2010-07-03 This volume brings together selected contributions from geoENV 2008 the 7th International Conference on Geostatistics for Environmental Applications held in Southampton UK It presents the state of the art in geostatistics for the environmental sciences [Spatial Ecology and Conservation Modeling](#) Robert Fletcher, Marie-Josée Fortin, 2019-02-15 This book provides a foundation for modern applied ecology Much of current ecology research and conservation addresses problems across landscapes and regions focusing on spatial patterns and processes This book is aimed at teaching fundamental concepts and focuses on learning by doing through the use of examples with the software R It is intended to provide an entry level easily accessible foundation for students and practitioners interested in spatial ecology and conservation **Population Ecology in Practice** Dennis L. Murray, Brett K. Sandercock, 2020-02-10 A synthesis of contemporary analytical and modeling approaches in population ecology The book provides an overview of the key analytical approaches that are currently used in demographic genetic and spatial analyses in population ecology The chapters present current problems introduce advances in analytical methods and models and demonstrate the applications of quantitative methods to ecological data The book covers new tools for designing robust field studies estimation of abundance and demographic rates matrix population models and analyses of population dynamics and current approaches for genetic and spatial analysis Each chapter is illustrated by empirical examples based on real datasets with a companion website that offers online exercises and examples of computer code in the R statistical software platform Fills a niche for a book that emphasizes applied aspects of population analysis Covers many of the current methods being used to analyse population dynamics and structure Illustrates the application of specific analytical methods through worked examples based on real datasets Offers readers the opportunity to work through examples or adapt the routines to their own datasets using computer code in the R statistical platform Population Ecology in Practice is an excellent book for upper level undergraduate and graduate students taking courses in population ecology or ecological statistics as well as established researchers needing a desktop reference for contemporary methods used to develop robust population assessments [Landscape Ecology](#) Dean L. Urban, 2024-12-01 This is methods tools textbook that covers the fundamental tasks in research and management at the landscape scale It brings together tools from a range of disciplines and presents them in a natural workflow that a practitioner can appreciate Alternative texts cover a narrower range of topics and or present the information without reference to a natural workflow The book begins with 2 fundamental applications that introduce the scope and challenges of working at the landscape scales sampling design and species distribution modeling These motivate several chapters that digress to cover the primary tools that ecologists use to work with multivariate and spatial data The book then returns to applications including site prioritization interpreting and forecasting landscape change and integrated assessment The tasks themselves follow a logical workflow of collecting and analyzing data applying the analyses to management decisions and

interpreting the outcomes of these decisions in an integrated framework This book stems from two graduate level courses in Landscape Ecology taught at the Nicholas School of the Environment at Duke University The subject has evolved over time from a concepts based overview of what landscape ecology is to a more applied practicum on how one does landscape ecology As landscape ecology has matured as a discipline its perspectives on spatial heterogeneity and scale have begun to permeate into a wide range of other fields including conservation biology ecosystem management and ecological restoration Thus this textbook will bring students from diverse backgrounds to a common level of understanding and will prepare them with the practical knowledge for a career in conservation and ecosystem management

**The Least Cost Path From Landscape Genetics to Landscape Genomics** Samuel A. Cushman, Andrew J. Shirk, Glenn T. Howe, Melanie A. Murphy, Rodney J. Dyer, Stéphane Joost, 2018-08-03 Ecosystems are the stage on which the play of evolution is acted and ecosystems are complex spatially structured and temporally varying The purpose of this Research Topic is to explore critical challenges and opportunities for the transition from landscape genetics to landscape genomics Landscape genetics has focused on the spatial analysis of small genetic datasets typically comprised of less than 20 microsatellite markers taken from clusters of individuals in putative populations or distributed individuals across landscapes The recent emergence of large scale genomic datasets produced by next generation sequencing methods poses tremendous challenge and opportunity to the field Perhaps the greatest is to produce process curate archive and analyze spatially referenced genomic datasets in a way such that research is led by a priori hypotheses regarding how environmental heterogeneity and temporal dynamics interact to affect gene flow and selection The papers in the Research Topic cover a broad range of topics under this area of focus from reviews of the emergence of landscape genetics to best practices in spatial analysis of genetic data The compilation like the emerging field itself is eclectic and illustrates the scope of both the challenges and opportunities of this emerging field

Spatial Analysis ,1977 **Forest Science** ,2015 Canadian Journal of Forest Research ,2012 *Object-based Image Analysis for Scaling Properties of Rangeland Ecosystems* Jason William Karl,2009 Encyclopedia of Ecology: G-O Sven Erik Jørgensen, Brian D. Fath,2008 **The Potential of Managed Ecosystems to Test Ecological Theory** Todd Stuart Rosenstock,2008 **Bragantia** ,2010 **Canadian Journal of Fisheries and Aquatic Sciences** ,2014 **Écoscience** ,2007 **Complex Stand Structures and Associated Dynamics** Arthur Groot, Ontario. Min. of Natural Resources,2007-07 This document provides a brief detailed summary of each presentation in the conference of Complex stand structures and associated dynamics measurement indices and modelling approaches in three page popular summary format Specifically short unedited syntheses were supplied by each author that summarize the essential information of the underlying research study including scope objectives methods results references and major conclusions The primary purpose is to document the research studies presented for the benefit of the forest science and management communities and foster onsite discussion among conference participants Document *Canadian Technical Report of Fisheries and Aquatic Sciences* ,2008

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