

# Free ebook Quantitative methods in landscape ecology the analysis and interpretation of landscape heterogeneity ecological studies (2023)

the intrinsic complexity variety of concepts and numerous ways to quantify landscape heterogeneity lh may hamper a better understanding of how its components relate to ecological phenomena we used simultaneous autoregressive models to explore the effects of climate evapotranspiration and landscape heterogeneity on the richness and abundance of breeding land bird species landscape ecology investigates what factors give rise to heterogeneity how that heterogeneity is maintained or altered by natural and anthropogenic disturbances and how heterogeneity ultimately influences ecological processes and flows across the landscape steps suggested for each stage in studies that aim to quantify landscape heterogeneity solid black arrows indicate the sequence of the steps that should be followed landscape heterogeneity is defined as a combination of compositional heterogeneity variety of land cover types and configurational heterogeneity the complexity of land cover types duelli 1997 fahrig et al 2011 the principal goal of landscape genetics is to understand how geographic and environmental heterogeneity influence spatial genetic variation population structure and gene flow manel et al 2003 storfer et al 2007

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~~holderregger and wagner 2008 an important finding of this study is that landscape~~  
heterogeneity can promote landscape scale ecosystem multifunctionality however it should be noted that it only does so under specific conditions here we aim to link two components of landscape heterogeneity configuration and composition measured at different spatial scales to the distribution of common invasive alien plants along roads in agricultural landscapes of poland landscape heterogeneity with respect to area shape configuration and quality of the effect such as edge effect cluster effect and fragmentation effect has been proven to influence the alpha  $\alpha$  beta  $\beta$  and gamma  $\gamma$  of plant species diversity 21 22 23 24 25 these results indicate that heterogeneous landscapes are associated with rich bird diversity but that most narrow ranging species prefer homogeneous landscapes particularly open habitats in landscape ecology which concerns spatial dynamics including fluxes of organisms materials and energy and the ways in which fluxes are controlled within heterogeneous matrices has provided new ways to explore aspects of spatial heterogeneity and to discover how spatial pattern controls ecological processes formats available these results indicate that heterogeneous landscapes are associated with rich bird diversity but that most narrow ranging species prefer homogeneous landscapes particularly open habitats in colder regions where grasslands have historically predominated landscape heterogeneity is defined as the number and proportions of different cover types compositional heterogeneity and their complex spatial arrangement configurational heterogeneity in the landscape fahrig and nuttle 2005 the effect of landscape heterogeneity on the dispersal of organisms between habitat islands is poorly understood preferred pathways for dispersal i.e corridors as well as dispersal barriers are difficult to identify when the landscape matrix is

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~~composed of a complex mixture of land cover types and use changes influence~~  
landscape composition i e type and extent of habitats contained within the landscape  
as well as landscape heterogeneity i e the diversity of habitats in the landscape  
which in turn may directly affect both plant taxonomical and functional diversity  
landscapes and their constituent ecosystems behave as complex adaptive systems  
ingegnoli 2011 naveh 2004 with heterogeneity being one of the key elements together  
with non linearity flows and hierarchical organization among others levin 1998 levin  
1999 we investigated how landscape heterogeneity measured by three metrics of  
landscape composition and configuration influenced body size functional group  
composition dispersal ability and vertical distribution of rice arthropods in the  
philippines the importance of landscape heterogeneity to biodiversity may depend on  
the size of the geographic range of species which in turn can reflect species traits  
such as habitat generalization and the effects of historical and contemporary land  
covers landscape ecology research has contributed to tremendous gains in  
understanding the causes and consequences of spatial heterogeneity how relationships  
between patterns and processes change with scale and the management of both natural  
and human dominated landscapes we define landscape heterogeneity as the spatial  
composition and distribution of components within the footprint of a flux tower  
which was quantified using high resolution worldview 2 images to extract vegetation  
texture features contrast dissimilarity and entropy

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the intrinsic complexity variety of concepts and numerous ways to quantify landscape heterogeneity lh may hamper a better understanding of how its components relate to ecological phenomena

## landscape heterogeneity biodiversity relationship effect of *Apr 13 2024*

we used simultaneous autoregressive models to explore the effects of climate evapotranspiration and landscape heterogeneity on the richness and abundance of breeding land bird species

## **3 landscape heterogeneity and dynamics oxford academic** ***Mar 12 2024***

landscape ecology investigates what factors give rise to heterogeneity how that heterogeneity is maintained or altered by natural and anthropogenic disturbances and how heterogeneity ultimately influences ecological processes and flows across the landscape

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**pdf landscape heterogeneity concepts quantification Feb  
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steps suggested for each stage in studies that aim to quantify landscape heterogeneity solid black arrows indicate the sequence of the steps that should be followed

**quantitative assessment of agricultural landscape heterogeneity Jan 10 2024**

landscape heterogeneity is defined as a combination of compositional heterogeneity variety of land cover types and configurational heterogeneity the complexity of land cover types duelli 1997 fahrig et al 2011

**examining the full effects of landscape heterogeneity on Dec 09 2023**

the principal goal of landscape genetics is to understand how geographic and environmental heterogeneity influence spatial genetic variation population structure and gene flow manel et al 2003 storfer et al 2007 holderegger and wagner 2008

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an important finding of this study is that landscape heterogeneity can promote  
landscape scale ecosystem multifunctionality however it should be noted that it only  
does so under specific conditions

scale dependence of landscape heterogeneity effects on  
plant *Oct 07 2023*

here we aim to link two components of landscape heterogeneity configuration and  
composition measured at different spatial scales to the distribution of common  
invasive alien plants along roads in agricultural landscapes of poland

**how do landscape heterogeneity community structure and**  
*Sep 06 2023*

landscape heterogeneity with respect to area shape configuration and quality of the  
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to influence the alpha  $\alpha$  beta  $\beta$  and gamma  $\gamma$  of plant species diversity 21 22 23 24  
25

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## **landscape heterogeneity biodiversity relationship effect of Aug 05 2023**

these results indicate that heterogeneous landscapes are associated with rich bird diversity but that most narrow ranging species prefer homogeneous landscapes particularly open habitats in

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landscape ecology which concerns spatial dynamics including fluxes of organisms materials and energy and the ways in which fluxes are controlled within heterogeneous matrices has provided new ways to explore aspects of spatial heterogeneity and to discover how spatial pattern controls ecological processes formats available

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## **effects of landscape heterogeneity and breeding habitat *May 02 2023***

landscape heterogeneity is defined as the number and proportions of different cover types compositional heterogeneity and their complex spatial arrangement configurational heterogeneity in the landscape fahrig and nuttle 2005

## **the effect of landscape heterogeneity on the probability *of Apr 01 2023***

the effect of landscape heterogeneity on the dispersal of organisms between habitat islands is poorly understood preferred pathways for dispersal i e corridors as well as dispersal barriers are difficult to identify when the landscape matrix is composed of a complex mixture of land cover types

## **the role of landscape composition and heterogeneity on *the Feb 28 2023***

land use changes influence landscape composition i e type and extent of habitats contained within the landscape as well as landscape heterogeneity i e the diversity



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of habitats in the landscape which in turn may directly affect both plant  
taxonomical and functional diversity

## **detection of landscape heterogeneity at multiple scales use *Jan 30 2023***

landscapes and their constituent ecosystems behave as complex adaptive systems  
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with non linearity flows and hierarchical organization among others levin 1998 levin  
1999

## **landscape heterogeneity filters functional traits of rice *Dec 29 2022***

we investigated how landscape heterogeneity measured by three metrics of landscape  
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dispersal ability and vertical distribution of rice arthropods in the philippines

## **landscape heterogeneity biodiversity relationship effect of *Nov 27 2022***

the importance of landscape heterogeneity to biodiversity may depend on the size of

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~~the geographic range of species which in turn can reflect species traits such as~~  
habitat generalization and the effects of historical and contemporary land covers

## ***spatial heterogeneity and ecosystem processes chapter 4*** ***Oct 27 2022***

landscape ecology research has contributed to tremendous gains in understanding the causes and consequences of spatial heterogeneity how relationships between patterns and processes change with scale and the management of both natural and human dominated landscapes

## **contributions of landscape heterogeneity within the footprint Sep 25 2022**

we define landscape heterogeneity as the spatial composition and distribution of components within the footprint of a flux tower which was quantified using high resolution worldview 2 images to extract vegetation texture features contrast dissimilarity and entropy

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