Geographical Information Systems and Landscape Archaeology

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Jan van Dalen
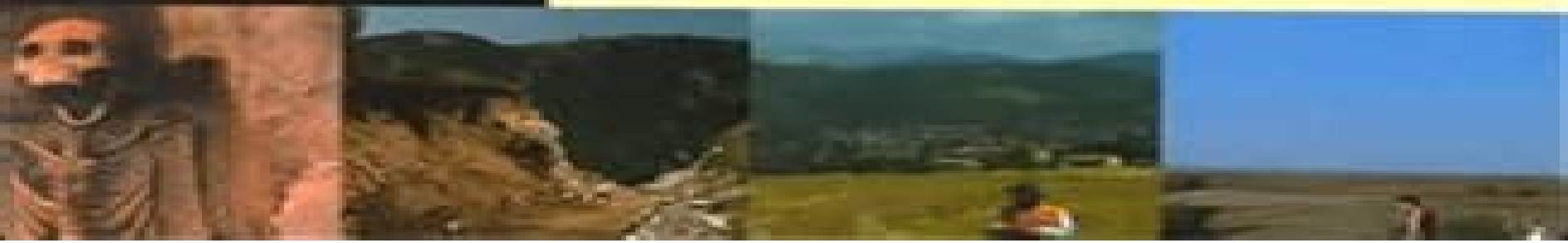
Geographical Information Systems And Landscape Archaeology

David J. Bodenhamer,John Corrigan,Trevor M. Harris

Geographical Information Systems And Landscape Archaeology:

Geographical Information Systems in Archaeology James Conolly,Mark Lake,Mark W. Lake,2006-05-04 Geographical Information Systems has moved from the domain of the computer specialist into the wider archaeological community providing it with an exciting new research method This clearly written but rigorous book provides a comprehensive guide to that use Topics covered include the theoretical context and the basics of GIS data acquisition including database design interpolation of elevation models exploratory data analysis including spatial queries statistical spatial analysis map algebra spatial operations including the calculation of slope and aspect filtering and erosion modeling methods for analysing regions visibility analysis network analysis including hydrological modeling the production of high quality output for paper and electronic publication and the use and production of metadata Offering an extensive range of archaeological examples it is an invaluable source of practical information for all archaeologists whether engaged in cultural resource management or academic research This is essential reading for both the novice and the advanced user **Geographical Information Systems in Archaeology** James Conolly,Mark Lake,2006-05-04 Geographical Information Systems has moved from the domain of the computer specialist into the wider archaeological community providing it with an exciting new research method This clearly written but rigorous book provides a comprehensive guide to that use Topics covered include the theoretical context and the basics of GIS data acquisition including database design interpolation of elevation models exploratory data analysis including spatial queries statistical spatial analysis map algebra spatial operations including the calculation of slope and aspect filtering and erosion modeling methods for analysing regions visibility analysis network analysis including hydrological modeling the production of high quality output for paper and electronic publication and the use and production of metadata Offering an extensive range of archaeological examples it is an invaluable source of practical information for all archaeologists whether engaged in cultural resource management or academic research This is essential reading for both the novice and the advanced user **Geographical Information Systems and Landscape Archaeology** Mark Gillings,Jan van Dalen,D. J. Mattingly,1999 GIS models are now a regular feature of archaeology and are used to shape day to day strategy as well as interpret data This volume contains some cutting edge case studies and more general discussions **Anthropology, Space, and Geographic Information Systems** Mark Aldenderfer,Herbert D. G. Maschner,1996-07-18 Major advances in the use of geographic information systems have been made in both anthropology and archaeology Yet there are few published discussions of these new applications and their use in solving complex problems This book explores these techniques showing how they have been successfully deployed to pursue research previously considered too difficult or impossible to undertake Among the projects described here are studies of land degradation in the Peruvian Amazon settlement patterns in the Pacific northwest ethnic distribution within the Los Angeles garment industry and prehistoric sociopolitical development among the Anasazi Following an introduction that discusses the theory of

geographic information systems in relation to anthropological inquiry the book is divided into sections demonstrating actual applications in cultural anthropology archaeology paleoanthropology and physical anthropology The work will be of much interest within all these communities **The Spatial Humanities** David J. Bodenhamer,John Corrigan,Trevor M. Harris,2010 Applying the analytical tools of GIS to new fields of research *Landscape Archaeology and GIS* Henry Chapman,2006 This volume examines the ways in which geographical information systems are used to explore archaeological landscapes It is structured around principal themes in landscape archaeology from desk based assessment data collection data modelling and landscape analysis through to archiving and publication **Handbook of Landscape Archaeology** Bruno David,Julian Thomas,2016-06-03 Over 80 archaeologists from four continents create a benchmark volume of the ideas and practices of landscape archaeology covering the theoretical and the practical the research and conservation and encasing the term in a global framework *Environmental Reconstruction in Mediterranean Landscape Archaeology* Philippe Leveau,Kevin Walsh,Frederic Trement,2016-10-31 Contents include Introduction K Walsh Palynology S Bottema A database for the palynological recording of human activity V Andrieu E Brugiapaglia R Cheddadi M Reille and J L de Beaulieu The contribution of anthracology J L Vernet Dendroclimatology F Guibal Techniques in Landscape Archaeology A G Brown L apport de la micromorphologie des sols N F doroff Reconstructing past soil environments R S Shiel The Geochemistry of Soil Sediments D D Gilbertson and J P Grattam Searching the Ports of Troy E Zanagger M Timpson S Yazvenko and H Leiermann The pontine region in central Italy P Attema J Delvigne and B J Haagsma Population pressure on agricultural resources in Karstic landscapes P Novacovic H Simoni and B Music La Pianura padana centrale tra il Bronzo Medio ed il Bronzo finale M Cremaschi The ancient ports of Marseille and Fos Provence southern France C Vella C Morhange and M Provansal The evolution of field systems in the middle Rh ne valley J F Berger and C Jung La l nea de Costa en poca hist rica en el Golfo de Valencia P Carmona The Vall e des Baux Southern France P Leveau The tang de Berre southern France F Tr ment Geoarchaeology in mediterranean landscape archaeology G Barker and J Bintliff *Geospatial Technology and the Role of Location in Science* Henk J. Scholten,Rob Velde,Niels van Manen,2009-07-06 Globalisation has not led to the death of geography Intensified relations between communities in different parts of the world have only highlighted the need for understanding and managing phenomena on a variety of geographic scales From global warming to credit crunch and from epidemics to terrorism causes and solutions are sought on local regional national as well as inter continental levels With the advent of Geospatial Technology scholars policymakers and entrepreneurs have valuable tools in hand to proceed This book offers the first systematic account of the science behind this mental and technological revolution Tracing the adoption and dissemination of Geospatial Technology in a range of disciplines it examines the impact this technology has had and is likely to have on the explanation of spatial behaviour phenomena and processes At the same time stressing innovative usage it explores scientific contributions to technology advancement **The Application of GIS Technologies in the Roman**

Period Pedro Trapero Fernández,2024-12-12 Using a selection of archaeological cases studies from the Roman period in the Mediterranean region Pedro Trapero Fern ndez shows how GIS technologies can be employed in the creation of spatial models to reproduce historical realities An increasing number of researchers use this digital humanities tool as a means to model both territory and landscape This book compiles different spatial models under a unified methodology described in separated chapters such as mobility and visibility models and discusses their limitations and potential for implementation in archaeological contexts The result is a detailed analysis of each method which consequently results in an accessible manual for understanding GIS technologies Designed for students and scholars with varying degrees of training in GIS who intend to carry out spatial analysis and historical models the approach of this book establishes a reference framework to work with GIS technologies in other historical periods Trapero concludes by discussing the future of GIS and spatial analysis and how it can be studied and used as a methodological approach in archaeological practice and research   Remote Sensing and Geosciences for Archaeology Deodato Tapete,2018-04-27 This book is a printed edition of the Special Issue Remote Sensing and Geosciences for Archaeology that was published in Geosciences   GIS and Archaeological Site Location Modeling Mark W. Mehrer,Konnie L. Wescott,2005-12-21 Although archaeologists are using GIS technology at an accelerating rate publication of their work has not kept pace A state of the art exploration the subject GIS and Archaeological Site Location Modeling pulls together discussions of theory and methodology scale data quantitative methods and cultural resource management and uses loc   *The Routledge Companion to Landscape Studies* Peter Howard,Ian Thompson,Emma Waterton,Mick Atha,2018-09-03 This new edition of The Routledge Companion to Landscape Studies contains an updated and expanded selection of original chapters which explore research directions in an array of disciplines sharing a concern for landscape a term which has many uses and meanings It features 33 revised and or updated chapters and 14 entirely new chapters on topics such as the Anthropocene Indigenous landscapes challenging landscape Eurocentrisms photography and green infrastructure planning The volume is divided into four parts Experiencing landscape Landscape heritage and culture Landscape society and justice and Design and planning for landscape Collectively the book provides a critical review of the various fields related to the study of landscapes including the future development of conceptual and theoretical approaches as well as current empirical knowledge and understanding It encourages dialogue across disciplinary barriers and between academics and practitioners and reflects upon the implications of research findings for local national and international policy in relation to landscape The Companion provides a comprehensive and up to date guide to current thinking about landscapes and serves as an invaluable point of reference for scholars researchers and graduate students alike   **Spatial Technology and Archaeology** David Wheatley,Mark Gillings,2013-02-05 Geographical Information Systems GIS and related spatial technologies have a new and powerful role to play in archaeological interpretation Beginning with a conceptual approach to the representation of space adopted by GIS this book examines spatial databases the acquisition and compilation of data the

analytical compilation of data the anal   Exploring the Visual Landscape Steffen Nijhuis,R. van Lammeren (ed.),Frank van der Hoeven,2011-09-01 It offers clues for visual landscape assessment of spaces in cities parks and rural areas

     Landscapes as Cultural Heritage in the European Research María Ruiz del Árbol Moro,María Ruíz del Árbol,Almudena Orejas Saco del Valle,2005 El objetivo principal de la acci n COST A27 es la identificaci n y evaluaci n de elementos y estructuras preindustriales en los paisajes europeos amenazados por el abandono de actividades mineras y agrarias tradicionales El coloquio sobre los paisajes como patrimonio cultural en la investigaci n europea constituy un primer punto de encuentro tanto para los investigadores implicados en la acci n como para otros expertos externos Los textos recogidos en esta publicaci n muestran el creciente inter s por el tomo por la recuperaci n de los paisajes como una parte esencial del patrimonio cultural y por las nuevas v as para su puesta en valor promoci n y gesti n en el marco global de la planificaci n territorial   **Wild Things 2.0** James Walker,David Clinnick,Helen Drinkall,Stephanie Piper,2019-10-10 Building on the first Wild Things volume Oxbow Books 2014 which aimed to showcase the research putting archaeologists researching the Palaeolithic and Mesolithic at the cutting edge of understanding humanity s past this collection of contributions presents recent research from an international group of both early career and established scientists Covering aspects of both Palaeolithic and Mesolithic research in order to encourage dialogue between practitioners of archaeology of both periods contributions are also geographically diverse touching on British European North American and Asian archaeology Topics covered include transitional periods deer and people stone tool technologies pottery land use antler frontlets and the development of prehistoric archaeology an age of wonder   **Place Names** Francesco Perono Cacciafoco,Francesco Cavallaro,2023-03-09 Illustrated with numerous case studies this book is the first comprehensive overview of the related fields of toponymy and toponomastics   **Archaeology And Geographic Information Systems** Gary R Lock,G Stancic,1995-07-11 Geographic information systems GIS applications are viewed with increasing interest by the archaeology community and this book with its diversity of topics and authorship should be a useful resource Complementing the volume Interpreting Space Taylor It is apparent that there are fundamental differences between North American and European archaeological uses of GIS Primarily these differences lie in the types of evidence for past landscapes that are available for study in the two continents and secondly in the different approaches to archaeology and specifically the theory and practice of landscape archaeology This title centres on the role of archaeological theory in cultural resource management CRM and in GIS applications generally It showcases the important debate which takes the emphasis away from the technology of GIS and places it back within the central concerns of archaeology and particularly European archaeology Archaeology and GIS includes material on such concerns as CRM applications landscape archaeology intra site applications and explicitly theoretical concerns thus representing the state of GIS applications in European archaeology Contributions come from countries such as France Italy Hungary UK USA the Netherlands the Czech Republic Spain

Slovenia and Finland   The Sacred Landscape of Dra Abu el-Naga during the New Kingdom María de los Ángeles Jiménez-Higueras,2020-10-12 In The Sacred Landscape of Dra Abu el Naga during the New Kingdom ngeles Jim nez Higueras offers the reconstruction of the physical religious and cultural landscape of Dra Abu el Naga south and its conceptual development from the 18th to the 20th Dynasties 1550 1069 BC A wider insight into the Theban necropolis is provided including the position played by the Dra Abu el Naga cemetery within the Theban funerary context understood as an inseparable complex of diverse components For this study ngeles Jim nez Higueras has reconciled textual and archaeological perspectives with theories relating to Landscape Archaeology which efficiently manages to compile and to link prosopographical genealogical archaeological and GIS Geographical Information System data

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Table of Contents Geographical Information Systems And Landscape Archaeology

1. Understanding the eBook Geographical Information Systems And Landscape Archaeology
    - The Rise of Digital Reading Geographical Information Systems And Landscape Archaeology
    - Advantages of eBooks Over Traditional Books
2. Identifying Geographical Information Systems And Landscape Archaeology
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Geographical Information Systems And Landscape Archaeology
    - User-Friendly Interface
4. Exploring eBook Recommendations from Geographical Information Systems And Landscape Archaeology
    - Personalized Recommendations
    - Geographical Information Systems And Landscape Archaeology User Reviews and Ratings
    - Geographical Information Systems And Landscape Archaeology and Bestseller Lists
5. Accessing Geographical Information Systems And Landscape Archaeology Free and Paid eBooks
    - Geographical Information Systems And Landscape Archaeology Public Domain eBooks
    - Geographical Information Systems And Landscape Archaeology eBook Subscription Services
    - Geographical Information Systems And Landscape Archaeology Budget-Friendly Options
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