

# Table of Contents

<i>COST and the Action A27 LANDMARKS</i>	VII
<i>Preface by Almudena Orejas</i>	IX
<i>Preface by editors</i>	XI
<i>Credits page</i>	XV
<i>Introduction</i>	
The role of geoinformation technologies in geocultural landscape research <i>Alenka Krek &amp; Niki Evelpidou</i>	3
<i>Part I: Primary data capturing</i>	
Using mobile GIS for Field Digital Data Acquisition (FDA) in archaeological field survey <i>Sergio García-Dils de la Vega &amp; Salvador Ordóñez Agulla</i>	35
The application of digital vertical aerial photogrammetry in the recording and analysis of archaeological landscapes <i>Anthony Corns &amp; Robert Shaw</i>	47
The use of satellite remote sensing for the detection and analysis of geocultural heritages <i>Kati Heinrich, Manfred F. Buchroithner &amp; Oliver Bender</i>	67
Shedding light on the past: Using airborne LIDAR to understand ancient landscapes <i>Simon Crutchley</i>	87
<i>Part II: Data preparation for GIS analysis</i>	
Geometric data preparation for GIS applications <i>David Podgorelec, Gregor Klajnšek, Sebastian Krivograd &amp; Borut Žalik</i>	107
The concept of a historic landscape analysis using GIS with focus on Central Europe <i>Oliver Bender</i>	129
Technologies for integration and use of historical maps into GIS – Nordic examples <i>Stein Tage Domaas &amp; Per Grau Møller</i>	145

*Part III: Data analysis and interpretation*

The workflow of a historic landscape analysis using GIS with examples from Central Europe 171  
*Oliver Bender*

Spatial interpolation and terrain analysis 189  
*Jaroslav Hofierka*

Landscape metrics – A toolbox for assessing past, present and future landscape structures 207  
*Stefan Lang, Ulrich Walz, Hermann Klug, Thomas Blaschke & Ralf-Uwe Syrbe*

*Part IV: Case studies*

Geomorphological study of Thera and the Akrotiri archaeological site 237  
*Theodoros Gournelos, Niki Evelpidou, Andreas Vassilopoulos & Konstantia Chartidou*

GIS landscape models for the study of preindustrial settlement patterns  
 in Mediterranean areas 255  
*Teresa Chapa Brunet, Juan Manuel Vicent García, Victorino Mayoral  
 Herrera & Antonio Uriarte González*

Mapping and analysis of linear landscape features 275  
*Christian Gugl*

Author index 291