# Contents

## Part I  Data Collection and Technology

*Terrestrial Laser Scanning in the Age of Sensing*  
Nicola Lercari  

*Airborne Laserscanning in Archaeology: Maturing Methods and Democratizing Applications*  
Rachel Opitz  

## Part II  Image and Digital Processing

*Terrestrial Lidar and GPR Investigations into the Third Line of Battle at Guilford Courthouse National Military Park, Guilford County, North Carolina*  
Stacy Curry, Roy Stine, Linda Stine, Jerry Nave, Richard Burt and Jacob Turner  

*Applying UAS Photogrammetry to Analyze Spatial Patterns of Indigenous Settlement Sites in the Northern Dominican Republic*  
Till F. Sonnemann, Eduardo Herrera Malatesta and Corinne L. Hofman  

## Part III  Landscape Representation and Scales

*Towards a Holistic Archaeological Survey Approach for Ancient Cityscapes*  
Frank Vermeulen  

*Sensing Ruralscapes. Third-Wave Archaeological Survey in the Mediterranean Area*  
Stefano Campana  

*What Do the Patterns Mean? Archaeological Distributions and Bias in Survey Data*  
David C. Cowley
3D Tool Evaluation and Workflow for an Ecological Approach to Visualizing Ancient Socio-environmental Landscapes .......... 171
Heather Richards-Rissetto, Shona Sanford-Long and Jack Kirby-Miller

Visualizing Medieval Iberia’s Contested Space Through Multiple Scales of Visibility Analysis ....................... 199
Edward Triplett

Pre- and Proto-Historic Anthropogenic Landscape Modifications in Siem Reap Province (Cambodia) as Seen Through Satellite Imagery .............................................. 229
Kasper Hanus and Emilia Smagur

The Ambivalence of Maps: A Historical Perspective on Sensing and Representing Space in Mesoamerica ......................... 247
John K. Millhauser and Christopher T. Morehart

Part IV Simulation, Visualization and Computing

Cyber Archaeology: 3D Sensing and Digital Embodiment .......... 271
Maurizio Forte

Emergent Relationality System/The Insight Engine ................. 291
Bill Seaman

Using 3D GIS Platforms to Analyse and Interpret the Past ........ 305
Nicoló Dell’Unto

Archaeology in the Age of Supercomputing .......................... 323
Devin A. White

Part V Interpretation and Discussion

Measuring the Face of the Past and Facing the Measurement .... 349
William Fred Limp

An Integrated Archaeological Prospection and Excavation Approach at a Middle Neolithic Circular Ditch Enclosure in Austria ...... 371
Jakob Kainz

Creating a Chronological Model for Historical Roads and Paths Extracted from Airborne Laser Scanning Data ............. 405
Willem F. Vletter and Sandra R. Schloen
Part VI  Cultural Resource Management: Communication and Society

From Remote to Embodied Sensing: New Perspectives for Virtual Museums and Archaeological Landscape

Communication .............................................. 437
Eva Pietroni

Cultural Heritage and Digital Technologies .............................. 475
Riccardo Olivito, Emanuele Taccola and Niccolò Albertini

Index .............................................................. 495
Digital Methods and Remote Sensing in Archaeology
Archaeology in the Age of Sensing
Forte, M.; Campana, S.R.L. (Eds.)
2016, XIX, 496 p. 223 illus., 175 illus. in color.,
Hardcover
ISBN: 978-3-319-40656-5