

Contents

<i>List of Contributors</i>	vii
<i>Foreword – Woody Turner</i>	ix
<i>Preface – Martin Wegmann, Benjamin Leutner and Stefan Dech</i>	x
<i>List of Acronyms</i>	xvi
Introduction	1
Nathalie Pettorelli	
1 Spatial Data and Software	11
Benjamin Leutner, Ned Horning, Duccio Rocchini and Martin Wegmann	
2 Introduction to Remote Sensing and GIS	22
Martin Wegmann and Benjamin Leutner	
3 Where to Obtain Spatial Data?	40
Martin Wegmann and Benjamin Leutner	
4 Spatial Data Analysis for Ecologists: First Steps	60
Benjamin Leutner, Martin Wegmann, Mirjana Bevanda and Ned Horning	
5 Pre-Processing Remote Sensing Data	114
Benjamin Leutner and Martin Wegmann	
6 Field Data for Remote Sensing Data Analysis	136
Christian Wohlfart, Mirjana Bevanda, Ned Horning, Benjamin Leutner and Martin Wegmann	
7 From Spectral to Ecological Information	150
Duccio Rocchini, Benjamin Leutner and Martin Wegmann	
8 Land Cover or Image Classification Approaches	166
Ned Horning, Benjamin Leutner and Martin Wegmann	
9 Land Cover Change or Change Detection	197
Ned Horning, Benjamin Leutner and Martin Wegmann	
10 Continuous Land Cover Information	209
Ned Horning, Benjamin Leutner, Mirjana Bevanda and Martin Wegmann	

11 Time Series Analysis	223
Jan Verbesselt, Fabian Loew, Christian Wohlfart and Martin Wegmann	
12 Spatial Land Cover Pattern Analysis	244
Duccio Rocchini, Martin Wegmann, Benjamin Leutner and Mirjana Bevanda	
13 Modelling Species Distributions	258
Björn Reineking, Benjamin Leutner and Martin Wegmann	
14 Introduction to the added value of Animal Movement Analysis and Remote Sensing	295
Mirjana Bevanda, Kamran Safi, Martin Wegmann and Benjamin Leutner	
<i>Outlook and Acknowledgements</i>	317
<i>Index</i>	319