

## Contents

Preface	vii
TEEUW, R. M. Introducing the remote sensing of hazardous terrain	1
KERVYN, M., KERVYN, F., GOOSSENS, R., ROWLAND, S. K. & ERNST, G. G. J. Mapping volcanic terrain using high-resolution and 3D satellite remote sensing	5
STEWART, S. F., PINKERTON, H., BLACKBURN, G. A. & GUÐMUNDSSON, M. T. Comparison and validation of Airborne Thematic Mapper thermal imagery using ground-based temperature data for Grímsvötn caldera, Vatnajökull, Iceland	31
RIEDMANN, M. & HAYNES, M. Developments in synthetic aperture radar interferometry for monitoring geohazards	45
WALSTRA, J., CHANDLER, J. H., DIXON, N. & DIJKSTRA, T. A. Aerial photography and digital photogrammetry for landslide monitoring	53
TREFOIS, P., MOEYERSONS, J., LAVREAU, J., ALIMASI, D., BADRYIO, I., MITIMA, B., MUNDALA, M., MUNGANGA, D. O. & NAHIMANA, L. Geomorphology and urban geology of Bukavu (R.D. Congo): interaction between slope instability and human settlement	65
MILLER, S., HARRIS, N., WILLIAMS, L. & BHALAI, S. Landslide susceptibility assessment for St. Thomas, Jamaica, using geographical information system and remote sensing methods	77
TEEUW, R. M. Applications of remote sensing for geohazard mapping in coastal and riverine environments	93
FERRIER, G., RUMSBY, B. & POPE, R. Application of hyperspectral remote sensing data in the monitoring of the environmental impact of hazardous waste derived from abandoned mine sites	107
BOURGUIGNON, A., DELPONT, G., CHEVREL, S. & CHABRILLAT, S. Detection and mapping of shrink–swell clays in SW France, using ASTER imagery	117
VAN DER WERFF, H. M. A., NOOMEN, M. F., VAN DER MEIJDE, M. & VAN DER MEER, F. D. Remote sensing of onshore hydrocarbon seepage: problems and solutions	125
MANNING, J. Remote sensing for terrain analysis of linear infrastructure projects	135
DOWMAN, I. & BALAN, P. Mapping remote areas using SRTM and ASTER digital elevation model data: a solution to orientation problems	143
ANDREWS DELLER, M. E. Space technology for disaster management: data access and its place in the community	149
Index	165