

Contents

<i>List of Contributors</i>	<i>page</i> viii
<i>Preface</i>	xii
1 Landslide Hazard and Risk: Issues, Concepts and Approach <i>Michael J. Crozier and Thomas Glade</i>	1
PART 1 CONCEPTUAL MODELS IN APPROACHING LANDSLIDE RISK	41
2 The Nature of Landslide Hazard Impact <i>Thomas Glade and Michael J. Crozier</i>	43
3 A Review of Scale Dependency in Landslide Hazard and Risk Analysis <i>Thomas Glade and Michael J. Crozier</i>	75
4 Systematic Procedures of Landslide Hazard Mapping for Risk Assessment Using Spatial Prediction Models <i>Chang-Jo F. Chung and Andrea G. Fabbri</i>	139
5 Vulnerability to Landslides <i>David Alexander</i>	175
PART 2 EVALUATION OF RISK	199
6 Landslide Risk Perception, Knowledge and Associated Risk Management: Case Studies and General Lessons from Glacier National Park, Montana, USA <i>David R. Butler and Lisa M. DeChano</i>	201
7 Cultural Consideration in Landslide Risk Perception <i>Garth Harmsworth and Bill Raynor</i>	219
8 Reply of Insurance Industry to Landslide Risk <i>Hans-Leo Paus</i>	251

9	The Role of Administrative Bodies in Landslide Risk Assessment	285
	<i>Kurt Hollenstein</i>	
10	Addressing Landslide Hazards: Towards a Knowledge Management Perspective	311
	<i>Sarah Michaels</i>	
PART 3	MANAGEMENT OF LANDSLIDE RISK	329
11	Management Frameworks for Landslide Hazard and Risk: Issues and Options	331
	<i>Michael J. Crozier</i>	
12	Reducing Landslide Hazards and Risk in the United States: The Role of the US Geological Survey	351
	<i>Gerald F. Wieczorek, Paula L. Gori and Lynn M. Highland</i>	
13	Basic Data and Decision Support for Landslide Management: A Conceptual Framework	377
	<i>Walter Pflügner</i>	
14	Instability Management from Policy to Practice	401
	<i>Robin McInnes</i>	
15	Geomorphological Mapping to Assess Landslide Risk: Concepts, Methods and Applications in the Umbria Region of Central Italy	429
	<i>Paola Reichenbach, Mirco Galli, Mauro Cardinali, Fausto Guzzetti and Francesca Ardizzone</i>	
16	Remote Sensing of Landslides	469
	<i>Vern Singhroy</i>	
17	The Rise and Fall of a Debris-flow Warning System for the San Francisco Bay Region, California	493
	<i>Raymond C. Wilson</i>	
18	Reforestation Schemes to Manage Regional Landslide Risk	517
	<i>Chris Phillips and Michael Marden</i>	
19	Geotechnical Structures for Landslide Risk Reduction	549
	<i>Edward Nicholas Bromhead</i>	
PART 4	'END-TO-END SOLUTIONS' FOR LANDSLIDE RISK ASSESSMENT	595
20	Towards the Development of a Landslide Risk Assessment for Rural Roads in Nepal	597
	<i>David N. Petley, Gareth J. Hearn and Andrew Hart</i>	

21	Quantitative Landslide Risk Assessment of Cairns, Australia	621
	<i>Marion Michael-Leiba, Fred Baynes, Greg Scott and Ken Granger</i>	
22	The Story of Quantified Risk and its Place in Slope Safety Policy in Hong Kong	643
	<i>Andrew W. Malone</i>	
23	Rockfall Risk Management in High-density Urban Areas. The Andorran Experience	675
	<i>Ramon Copons, Joan Manuel Vilaplana, Jordi Corominas, Joan Altimir and Jordi Amigó</i>	
24	Landslide Risk Assessment in Italy	699
	<i>Marino Sorriso-Valvo</i>	
25	An Initial Approach to Identifying Slope Stability Controls in Southern Java and to Providing Community-based Landslide Warning Information	733
	<i>D. Karnawati, I. Ibriam, M.G. Anderson, E.A. Holcombe, G.T. Mummery, J.-P. Renaud and Y. Wang</i>	

PART 5	SYNOPSIS	765
---------------	-----------------	------------

26	Landslide Hazard and Risk – Concluding Comment and Perspectives	767
	<i>Thomas Glade and Michael J. Crozier</i>	

<i>Glossary</i>	775
<i>Thematic Index</i>	795
<i>Locations/regions</i>	801