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Landslide Science for a Safer Geoenvironment

Volume 2
Methods of Landslide Studies



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Landslide Science For A Safer Geoenvironment Volume 2

Methods Of Landslide Studies

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Strom, Kyoji Sassa, Peter T.
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Landslide Science For A Safer Geoenvironment Volume 2 Methods Of Landslide Studies:

Landslide Science for a Safer Geoenvironment Kyoji Sassa, Paolo Canuti, Yueping Yin, 2014-05-19 This volume contains peer reviewed papers from the Third World Landslide Forum organized by the International Consortium on Landslides ICL in June 2014 The complete collection of papers from the Forum is published in three full color volumes and one mono color volume

Landslide Databases as Tools for Integrated Assessment of Landslide Risk Martin Klose, 2015-06-24 This doctoral thesis presents a novel approach to landslide risk assessment that explores the various dimensions of landslide risk in an integrated perspective The research approach introduced here is tailored for use with landslide databases and Geographic Information Systems GIS A landslide susceptibility model is at the heart of this new approach enabling to identify and delineate areas at risk of landslides and to assess infrastructure exposure Landslide risk is a pressing societal issue that is still poorly understood Temporal landslide hazard is derived from landslide frequency statistics and a hydrological simulation approach to estimate triggering thresholds These methods are integrated into a powerful toolset for cost modeling that uses historical data to compile model and extrapolate damage costs on different spatial scales over time The combination of this toolset with techniques to analyze fiscal cost impacts supports integrated risk assessment by quantifying the economic relevance of landslide losses

Understanding and Reducing Landslide Disaster Risk Vít Vilímek, Fawu Wang, Alexander Strom, Kyoji Sassa, Peter T. Bobrowsky, Kaoru Takara, 2020-12-21 This book is a part of ICL new book series ICL Contribution to Landslide Disaster Risk Reduction founded in 2019 Peer reviewed papers submitted to the Fifth World Landslide Forum were published in six volumes of this book series This book contains the followings Part I with topics is mainly about landslides and earthquakes landslide dams and outburst floods catastrophic large scale landslides in mountainous regions Part II with topics is mainly about impact of climate change loess landslides mapping monitoring and modeling of landslides stabilization and mitigation application of new technology in landslide studies Prof V t Vil mek is the vice president of the International Consortium on Landslides ICL and a member of the evaluation committee Editor in Chief of the university journal AUC Geographica and Associate Editor in Chief of the international journal Geoenvironmental Disasters He is a Professor of Physical Geography at Charles University Prague Czech Republic Prof Fawu Wang is the President of the International Consortium on Geo disaster Reduction ICGdR and the Editor in Chief of the international journal Geoenvironmental Disasters He is a Professor at the School of Civil Engineering Tongji University China Dr Alexander Strom is a chief expert at the Geodynamics Research Center LLC Moscow Russia He is also an Adjunct Professor at Chang an University Xi an China Visiting Professor at SKLGP Chengdu China and an alternative representative of the JSC Hydroproject Institute in ICL Prof Kyoji Sassa is the Founding President and the Secretary General of the International Consortium on Landslides ICL He has been the Editor in Chief of International Journal Landslides since its foundation in 2004 Prof Peter Bobrowsky is the President of the International Consortium on Landslides He is a Senior Scientist of Geological Survey of

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Understanding and Reducing Landslide Disaster Risk Kyoji Sassa, Matjaž Mikoš, Shinji Sassa, Peter T. Bobrowsky, Kaoru Takara, Khang Dang, 2020-12-21 This book is a part of ICL new book series ICL Contribution to Landslide Disaster Risk Reduction founded in 2019 Peer reviewed papers submitted to the Fifth World Landslide Forum were published in six volumes of this book series This book contains the followings Four Forum lectures and one award paper Sendai Landslide Partnerships Kyoto Landslide Commitment and International Programme on Landslides Landslide induced tsunamis Landslides at UNESCO designates sites and contribution from WMO FAO and IRDR Education and Capacity Development for Risk Management and Risk Governance Prof Kyoji Sassa is the Founding President and the Secretary General of International Consortium on Landslides ICL He has been the Editor in Chief of International Journal Landslides since its foundation in 2004 Prof Matja Miko is the Vice President of International Consortium on Landslides and Vice President of Slovenian Academy of Engineering He is a Professor and Dean of Faculty of Civil and Geodetic Engineering University of Ljubljana Slovenia Dr Shinji Sassa is Head of Soil Dynamics Group and Research Director of International Research Center for Coastal Disasters Port and Airport Research Institute National Institute of Maritime Port and Aviation Technology Japan Prof Peter Bobrowsky is the President of International Consortium on Landslides He is a Senior Scientist of Geological Survey of Canada Ottawa Canada Prof Kaoru Takara is the Executive Director of International Consortium on Landslides He is a Professor and Dean of Graduate School of Advanced Integrated Studies GSAIS in Human Survivability Shishu Kan Kyoto University Dr Khang Dang is the Secretary General of the Fifth World Landslide Forum He also serves as the Research Promotion Officer of ICL and a Lecturer at the University of Science Vietnam National University Hanoi

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Scientist of Geological Survey of Canada Ottawa Canada Prof Kaoru Takara is the Executive Director of the International Consortium on Landslides He is a Professor and Dean of Graduate School of Advanced Integrated Studies GSAIS in Human Survivability Shishu Kan Kyoto University *Understanding and Reducing Landslide Disaster Risk* Nicola Casagli, Veronica Tofani, Kyoji Sassa, Peter T. Bobrowsky, Kaoru Takara, 2020-12-21 This book is a part of ICL new book series ICL Contribution to Landslide Disaster Risk Reduction founded in 2019 Peer reviewed papers submitted to the Fifth World Landslide Forum were published in six volumes of this book series This book contains the followings One theme lecture and one keynote lecture Monitoring and remote sensing for landslide risk mitigation including one keynote lecture Landslide early warning systems forecasting models and time prediction of landslides Prof Nicola Casagli is a Vice President and President elect of the International Consortium on Landslides ICL for 2021 2023 He is Professor of engineering geology at the Department of Earth Sciences University of Florence and President of the National Institute of Oceanography and Applied Geophysics OGS Trieste Italy Dr Veronica Tofani is an Associate Professor at the Department of Earth Sciences University of Florence and Program Coordinator of the UNESCO Chair on Prevention and Sustainable Management of Geo hydrological hazards University of Florence Prof Kyoji Sassa is the Founding President and the Secretary General of the International Consortium on Landslides ICL He has been the Editor in Chief of International Journal Landslides since its foundation in 2004 Prof Peter Bobrowsky is the President of the International Consortium on Landslides He is a Senior Scientist of Geological Survey of Canada Ottawa Canada Prof Kaoru Takara is the Executive Director of the International Consortium on Landslides He is a Professor and Dean of Graduate School of Advanced Integrated Studies GSAIS in Human Survivability Shishu Kan Kyoto University **Advancing Culture of Living with Landslides** Matjaz Mikos, Binod Tiwari, Yueping Yin, Kyoji Sassa, 2017-06-10 This volume contains peer reviewed papers from the Fourth World Landslide Forum organized by the International Consortium on Landslides ICL the Global Promotion Committee of the International Programme on Landslides IPL University of Ljubljana UL and Geological Survey of Slovenia in Ljubljana Slovenia from May 29 to June 2 The complete collection of papers from the Forum is published in five full color volumes This second volume contains the following Two keynote lectures Landslide Field Recognition and Identification Remote Sensing Techniques Field Techniques Landslide Investigation Field Investigations Laboratory Testing Landslide Modeling Landslide Mechanics Simulation Models Landslide Hazard Risk Assessment and Prediction Landslide Inventories and Susceptibility Hazard Mapping Methods Damage Potential Prof Matja Miko is the Forum Chair of the Fourth World Landslide Forum He is the Vice President of International Consortium on Landslides and President of the Slovenian National Platform for Disaster Risk Reduction Prof Binod Tiwari is the Coordinator of the Volume 2 of the Fourth World Landslide Forum He is a Board member of the International Consortium on Landslides and an Executive Editor of the International Journal Landslides He is the Chair Elect of the Engineering Division of the US Council of Undergraduate Research Award Committee Chair of the American Society of Civil Engineering

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Hiromitsu Yamagishi, Netra Prakash Bhandary, 2017-05-16 This book presents landslide studies using the geographic information system GIS which includes not only the science of GIS and remote sensing but also technical innovations such as detailed light detection and ranging profiles among others To date most of the research on landslides has been found in journals on topography geology geo technology landslides and GIS and is limited to specific scientific aspects Although journal articles on GIS using landslide studies are abundant there are very few books on this topic This book is designed to fill that gap and show how the latest GIS technology can contribute in terms of landslide studies In a related development the GIS Landslide Workshop was established in Japan 7 years ago in order to communicate and solve the scientific as well as technical problems of GIS analyses such as how to use GIS software and its functions The workshop has significantly contributed to progress in the field Included among the chapters of this book are GIS using susceptibility mapping analyses of deep seated and shallow landslides measuring and visualization of landslide distribution in relation to topography geological facies and structures rivers land use and infrastructures such as roads and streets Filled with photographs figures and tables this book is of great value to researchers in the fields of geography geology seismology environment remote sensing and atmospheric research as well as to students in these fields Community Heritage in the Arab Region Arwa

Badran, Shatha Abu-Khafajah, Sarah Elliott, 2022-11-07 This book investigates approaches to community heritage within the Arab region and the underlying theories associated with these approaches It aims within the context of the region to define community and heritage as well as examine the emergence and development of this field The volume's contributors deploy a wealth of case studies from the Middle East and North Africa to provide a unique forum for discussion comparability analysis and deeper understandings of current trends in community heritage In particular the volume explores the relationship between communities and their heritage the meanings and values placed upon it the nature and degree of community participation and engagement in its interpretation and management and how its different registers affect and produce sometimes unexpected community heritage formations It also examines the level of responsibility held within the profession towards this essentially democratic process of public participation in their heritage in a region shaped by controversial

histories political turmoil and tourism driven economies The volume builds on current research and practice in community heritage globally by debating and re centring a suite of familiar and new issues related to hitherto under researched regional specific methodologies and developing fresh insight into the theoretical underpinning of these practices It will be of value to heritage scholars and practitioners as well as those interested in politics identity education and the dynamics of heritage based sustainable development

Landslide Dynamics: ISDR-ICL Landslide Interactive Teaching Tools Kyoji Sassa, Fausto Guzzetti, Hiromitsu Yamagishi, Željko Arbanas, Nicola Casagli, Mauri McSaveney, Khang Dang, 2017-12-27 This interactive book presents comprehensive information on the fundamentals of landslide types and dynamics while also providing a set of PPT PDF and text tools for education and capacity development As the core activity of the Sendai Partnerships the International Consortium of Landslides has created this two volume work which will be regularly updated and improved over the coming years based on responses from users and lessons learned during its application

Systems, Decision and Control in Energy II Artur Zaporozhets, Volodymyr Artemchuk, 2021-03-21 This book examines the problems in the field of energy and related fields chemical transport aerospace construction metallurgy engineering etc and consists of 4 subsections Electrical Engineering Heat Power Engineering Cybersecurity and Computer Science Environmental Safety In the first section authors pay attention to contemporary issues related to the development of the electric power industry electrical engineering the physics of electrical phenomena and renewable energy sources such as solar energy and wind energy The second section is devoted to modern problems in heat power engineering and considers modern means and methods that increase the efficiency and reliability of the functioning of heat power facilities The third section is devoted to issues of cybersecurity of critical facilities in particular energy facilities as well as the development of computer science and the introduction of modern information and measurement systems in the energy sector The fourth subsection deals with the problems of rational use of natural resources accounting for emissions of harmful substances environmental issues at energy facilities as well as the development of a methodology for environmental safety The book includes 21 chapters A book is for researchers engineers as well as lecturers and postgraduates of higher education institutions dealing with issues of control diagnosis and monitoring of energy facilities

Water, Land, and Forest Susceptibility and Sustainability Uday Chatterjee, Biswajeet Pradhan, Suresh Kumar Kailasa, Sourav Saha, Mohammad Zakwan, 2022-11-25 Water Land and Forest Susceptibility and Sustainability Volume 1 Geospatial Approaches Modeling brings an interdisciplinary perspective to solving complex problems in sustainability utilizing the latest research and technologies and includes case studies that emphasize the applications of remote sensing GIS and image processing for addressing the current state and future needs to achieve sustainability As forests land and water are among the most precious resources on earth emphasizing the need to conserve them for future generations and of course a safe and sustainable planet The assessment of the susceptibility of all these three precious resources must therefore be addressed to inform their sustainable management This 1st volume encourages

adaptive activities among experts employed in interdisciplinary fields from data mining and machine learning to environmental science by linking geospatial computational intelligence technology to forest land and water issues Presents theoretical context and practical solutions for understanding the current knowledge and where future efforts should be directed Includes case studies in each chapter demonstrating the use of geospatial technologies Offers an interdisciplinary approach to addressing susceptibility and achieving sustainability Progress in Landslide Research and Technology, Volume 3 Issue 2, 2024 Biljana Abolmasov,Irasema Alcántara-Ayala,Željko Arbanas,David Huntley,Kazuo Konagai,Matjaž Mikoš,Kyoji Sassa,Shinji Sassa,Binod Tiwari,2024-12-31 This open access book provides an overview of the progress in landslide research and technology and is part of a book series of the International Consortium on Landslides ICL The book provides a common platform for the publication of recent progress in landslide research and technology for practical applications and the benefit for the society contributing to the Kyoto Landslide Commitment 2020 which is expected to continue up to 2030 and even beyond to globally promote the understanding and reduction of landslide disaster risk as well as to address the 2030 Agenda Sustainable Development Goals This is an open access book *Modern Technologies for Landslide Monitoring and Prediction* Marco Scaioni,2015-01-23 Modern Technologies for Landslide Investigation and Prediction presents eleven contributed chapters from Chinese and Italian authors as a follow up of a bilateral workshop held in Shanghai on September 2013 Chapters are organized in three main parts ground based monitoring techniques photogrammetry terrestrial laser scanning ground based InSAR infrared thermography and GNSS networks geophysical passive seismic sensor networks and geotechnical methods SPH and SLIDE and satellite remote sensing techniques InSAR and optical images Authors of these contributes are internationally recognized experts in their respective research fields Marco Scaioni works in the college of Surveying and Geo Informatics at Tongji University Shanghai P R China His research fields are mainly Close range Photogrammetry Terrestrial Laser Scanning and other ground based sensors for metrological and deformation monitoring applications to structural engineering and geosciences In the period 2012 2016 he is chairman of the Working Group V 3 in the International Society for Photogrammetry and Remote Sensing focusing on Terrestrial 3D Imaging and Sensors *Advancing Culture of Living with Landslides* Kyoji Sassa,Matjaž Mikoš,Yueping Yin,2017-05-16 This book is open access under a CC BY 4 0 license This volume contains peer reviewed papers from the Fourth World Landslide Forum organized by the International Consortium on Landslides ICL the Global Promotion Committee of the International Programme on Landslides IPL University of Ljubljana UL and Geological Survey of Slovenia in Ljubljana Slovenia from May 29 to June 2 2017 The complete collection of papers from the Forum is published in five full color volumes Thisfirst volume contains the following Three forum lectures Background and Content of the Sendai Partnerships 2015 2025 Contribution from the signatory organizations of the Sendai Partnerships Landslide Dynamics ISDR ICL Landslide Interactive Teaching Tools LIT T Progress of the World Report on Landslides WRL International Programme on Landslides IPL Objects History and

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Progress in Landslide Research and Technology, Volume 2 Issue 1, 2023 Irasema Alcántara-Ayala, Željko Arbanas, Sabatino Cuomo, David Huntley, Kazuo Konagai, Snježana Mihalić Arbanas, Matjaž Mikoš, Kyoji Sassa, Shinji Sassa, Huiming Tang, Binod Tiwari, 2023-12-24 This open access book provides an overview of the progress in landslide research and technology and is part of a book series of the International Consortium on Landslides ICL The book provides a common platform for the publication of recent progress in landslide research and technology for practical applications and the benefit for the society contributing to the Kyoto Landslide Commitment 2020 which is expected to continue up to 2030 and even beyond to globally promote the understanding and reduction of landslide disaster risk as well as to address the 2030 Agenda Sustainable Development Goals

A Holistic Case-Study Approach to Applying Satellite Remote Sensing to Disaster Management Kazuya Kaku, 2021-09-13 This book brings together a number of holistic case studies focusing on the application of satellite remote sensing to disaster management It highlights the human factors behind such application and explores the various fields in which it can be used

Advancing Culture of Living with Landslides Matjaž Mikoš, Vít Vilímek, Yueping Yin, Kyoji Sassa, 2017-05-17 This volume contains peer reviewed papers from the Fourth World Landslide Forum organized by the International Consortium on Landslides ICL the Global Promotion Committee of the International Programme on Landslides IPL University of Ljubljana UL and Geological Survey of Slovenia in Ljubljana Slovenia from May 29 to June 2 2017 The complete collection of papers from the Forum is published in five full color volumes This fifth volume contains the following Landslide Interactions with the Built Environment Landslides in Natural Environment Landslides and Water Landslides as Environmental Change Proxies Looking at the Past Student Papers Prof Matja Miko is the Forum Chair of the Fourth World Landslide Forum He is the Vice President of International Consortium on Landslides and President of the Slovenian National Platform for Disaster Risk Reduction Assoc Prof V t Vil mek is the editor of Volume 5 He is member of the

Evaluation committee of International Consortium on Landslides and head of the Czech Geomorphological Association Prof Yueping Yin is the President of the International Consortium on Landslides and the Chairman of the Committee of Geo Hazards Prevention of China and the Chief Geologist of Geo Hazard Emergency Technology Ministry of Land and Resources P R China Prof Kyoji Sassa is the Founding President of the International Consortium on Landslides ICL He is Executive Director of ICL and the Editor in Chief of International Journal Landslides since its foundation in 2004 IPL International Programme on Landslides is a programme of the ICL The programme is managed by the IPL Global Promotion Committee including ICL and ICL supporting organizations UNESCO WMO FAO UNISDR UNU ICSU WFEO IUGS and IUGG The IPL contributes to the United Nations International Strategy for Disaster Reduction and the ISDR ICL Sendai Partnerships 2015 2025

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