
International Society for Integrated Disaster Risk Management



IDRiM Newsletter
Issue 23, May 2022



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1. IDRIM NEWS

IDRiM 2022 Conference

“Critical Steps For Research And Practice In Disaster Risk Management In The Age Of Climate Change And COVID-19 Pandemics”

Historically, South-Eastern European (SEE) nations have faced numerous disasters, such as destructive earthquakes, floods, wildfires, landslides, etc. and technological accidents, often affecting bordering countries. Furthermore, due to the effects of the climate change, an increase in the number and intensity of weather-related complex disasters is expected. In developing SEE countries, with high social and economic vulnerability and, at the same time, low focus on prevention and preparedness activities, there is an urgent need for cooperation in the region between scientists, experts, practitioners and national authorities to deal with both slow and rapid-onset disasters.

The 12th International Conference of the International Society for Integrated Disaster Risk Management (IDRiM2022) will be hosted by Babeş-Bolyai University of Cluj-Napoca (Romania), Research Institute for Sustainability and Disaster Management based on High Performance Computing and Faculty of Environmental Science and Engineering. The main objective of the IDRiM2022 conference is to showcase research, discuss case studies, and address urgent problems within the field in SEE countries and other countries around the world.

The specific objectives of the conference include:

- to invite contributions that not only advance the state of the art in integrated disaster risk management research and effectiveness, but also summarize, synthesize, and assess field specific information in order to set future priorities in DRR;
- to strengthen networking between the academic community, practitioners and authorities and representatives of civil society in the field of disaster risk reduction;
- to share DRR policies and practices in the current pandemic situation in the different countries and extract important essences for DRR in the future.

IDRiM2022 will focus on presentations addressing issues related to:

- Understanding hazards and risks for a better risk management
- Sustainable development and resilient societies
- Reducing social, economic and environmental vulnerabilities
- Risk communication and risk perception studies
- Disaster education
- Gender issues in disaster risk reduction
- Technological disasters triggered by natural hazards (Natech)
- Disaster risk governance (with a special focus on Central and South-Eastern Europe)
- Managing cascading disasters during pandemics (Covid-19) / slow-onset catastrophes.
- Climate and weather-related disasters
- Climate change adaptation
- Early warning systems
- Critical infrastructure protection against disasters
- Systemic risks
- Economic impacts of disasters
- Other topics related with integrated disaster risk management

Website: <http://idrim2022.com>

2. Other NEWS

Global Assessment Report 2022

Our World at Risk

Transforming Governance for a Resilient Future

From the press release:

Source: <https://www.undrr.org/gar2022-our-world-risk#container-downloads>

“Despite commitments to build resilience, tackle climate change and create sustainable development pathways, current societal, political and economic choices are doing the reverse. This jeopardizes not only achievement of the Sendai Framework for Disaster Risk Reduction 2015–2030, but also hinders progress towards the Paris Agreement and the Sustainable Development Goals (SDGs) set out in the Transforming our World: the 2030 Agenda for Sustainable Development. To change course, new approaches are needed. This will require transformations in what governance systems value and how systemic risk is understood and addressed. Doing more of the same will not be enough.

Risk creation is outstripping risk reduction. Disasters, economic loss and the underlying vulnerabilities that drive risk, such as poverty and inequality, are increasing just as ecosystems and biospheres are at risk of collapse. Global systems are becoming more connected and therefore more vulnerable in an uncertain risk landscape. Local risks, like a new virus in Wuhan, China, can become global; global risks like climate change are having major impacts in every locality. Indirect, cascading impacts can be significant.

Without increased action to build resilience to systemic risk, the SDGs cannot be achieved. Investment in understanding risk is the foundation for sustainable development. However, this needs to link to a reworking of financial and governance systems to account for the real costs of current inaction to address risks like climate change. Without this, financial balance sheets and governance decision-making will remain fragmented and be rendered increasingly inaccurate and ineffective.”

Website: <https://media.ifrc.org/ifrc/world-disaster-report-2020>

IPCC 2022 Report

From the press release:


Source:

https://www.ipcc.ch/report/ar6/wg2/downloads/press/IPCC_AR6_WGII_PressRelease-English.pdf

“Human-induced climate change is causing dangerous and widespread disruption in nature and affecting the lives of billions of people around the world, despite efforts to reduce the risks. People and ecosystems least able to cope are being hardest hit, said scientists in the latest Intergovernmental Panel on Climate Change (IPCC) report, released today. “This report is a dire warning about the consequences of inaction,” said Hoesung Lee, Chair of the IPCC. “It shows that climate change is a grave and mounting threat to our wellbeing and a healthy planet. Our actions today will shape how people adapt and nature responds to increasing climate risks.” The world faces unavoidable multiple climate hazards over the next two decades with global warming of 1.5°C (2.7°F). Even temporarily exceeding this warming level will result in additional severe impacts, some of which will be irreversible. Risks for society will increase, including to infrastructure and low-lying coastal settlements.

The Summary for Policymakers of the IPCC Working Group II report, Climate Change 2022: Impacts, Adaptation and Vulnerability was approved on Sunday, February 27 2022, by 195 member governments of the IPCC, through a virtual approval session that was held over two weeks starting on February 14. Urgent action required to deal with increasing risks Increased heatwaves, droughts and floods are already exceeding plants’ and animals’ tolerance thresholds, driving mass mortalities in species such as trees and corals. These weather extremes are occurring simultaneously, causing cascading impacts that are increasingly difficult to manage. They have exposed millions of people to acute food and water insecurity, especially in Africa, Asia, Central and South America, on Small Islands and in the Arctic. To avoid mounting loss of life, biodiversity and infrastructure, ambitious, accelerated action is required to adapt to climate change, at the same time as making rapid, deep cuts in greenhouse gas emissions. So far, progress on adaptation is uneven and there are increasing gaps between action taken and what is needed to deal with the increasing risks, the new report finds. These gaps are largest among lower-income populations. The Working Group II report is the second instalment of the IPCC’s Sixth Assessment Report (AR6), which will be completed this year”[...]

“Scientists point out that climate change interacts with global trends such as unsustainable use of natural resources, growing urbanization, social inequalities, losses and damages from extreme events and a pandemic, jeopardizing future development. “Our assessment clearly shows that tackling all these different challenges involves everyone – governments, the private sector, civil society – working together to prioritize risk reduction, as well as equity and justice, in decision-making and investment,” said IPCC Working Group II Co-Chair Debra Roberts. “In this way, different interests, values



and world views can be reconciled. By bringing together scientific and technological know-how as well as Indigenous and local knowledge, solutions will be more effective. Failure to achieve climate resilient and sustainable development will result in a suboptimal future for people and nature.” Cities: Hotspots of impacts and risks, but also a crucial part of the solution This report provides a detailed assessment of climate change impacts, risks and adaptation in cities, where more than half the world’s population lives. People’s health, lives and livelihoods, as well as property and critical infrastructure, including energy and transportation systems, are being increasingly adversely affected by hazards from heatwaves, storms, drought and flooding as well as slow-onset changes, including sea level rise.”[...]

“The report clearly states Climate Resilient Development is already challenging at current warming levels. It will become more limited if global warming exceeds 1.5°C (2.7°F). In some regions it will be impossible if global warming exceeds 2°C (3.6°F). This key finding underlines the urgency for climate action, focusing on equity and justice. Adequate funding, technology transfer, political commitment and partnership lead to more effective climate change adaptation and emissions reductions.“

“The year 2021 has again been heavily impacted by the Corona pandemic. In addition, climate-related extreme weather events have kept us busy in many parts of the world, including heat waves, forest fires and floods. To safeguard against existential risks, social security systems are of great importance for disaster preparedness. The consequences of the Corona pandemic and climate change have made this even more clear in the last two years. The report addresses different forms of social security systems and highlights their social relevance in the context of crises and disasters.”

Website: <https://www.ipcc.ch/report/ar6/wg2/>

3. Conference Announcements

Sustainability Research & Innovation Congress 2022

June 20-24, 2022

Online and onsite in Pretoria, South Africa

South Africa will offer an inspiring environment for this second edition of the SRI Congress. A leader on the African continent and around the globe for sustainability science and innovation as well as participatory approaches to action research, it also provides a gateway to the wider African continent.

The country boasts an exceptional network of universities working at the forefront of resilience and has strong ties to private sector and industry research that is moving new green ideas to market, building innovation capacity and providing sustainability career opportunities to meet Africa's Agenda 2063.

An important objective of SRI2022 is to amplify the voice of sustainability science and innovation in the Global South, specifically for the African continent through raising awareness and propelling discussions about sustainable priorities for Africa. Africa has much to offer to the global discussion on sustainability, and SRI2022, together with its host Future Africa, will provide a critical platform in collaboration with local, African and international partners.

The Sustainability Research & Innovation Congress is a series of gatherings uniting global research leaders, experts, industry and innovators to inspire action and promote a sustainability transformation. A joint initiative of Future Earth and the Belmont Forum, it is a space of fierce advocacy for sustainability scholarship and innovation, transdisciplinary and cross-sectoral collaboration and action.

Hosted by the Future Africa Institute at the University of Pretoria, SRI2022 will build on the success of the first SRI Congress which took place in June 2021 and featured 700 speakers and 2,000 participants from 100 countries.

Website: <https://sri2022.org>

Dealing with Disasters Conference 2022

Dealing with Disaster Prevention and Recovery through Next Generation
Social, Economic and Environmental Health and Well-being,

9th - 10th June, 2022

Hosted by the Northumbria Disaster and Development Society (DDS) and the Disaster and Development Network (DDN) in Association with the Centre for International Development (CID) Hybrid in Person and Online at Northumbria University, Newcastle upon Tyne, UK 9 th - 10th June, 2022

Driving Rationale: Putting disaster prevention into recovery processes is a strategic opportunity to improve the well-being and survivability of future generations. Meanwhile, the capacity of present generations to ensure this is contingent on sustaining knowledge from lived experiences of recoverable disaster loss and damage. This two-day conference is aimed at all those interested in engaging research, policy and practice for actions towards a more risk informed, and well-being enhanced, engagement with disaster prevention and recovery. A particular feature is to bring well-established analysts working from the bases of varied knowledge environments together with practice and policy facing groups to address generational gaps that impact on disaster prevention and recovery. Organisation is provided by the Northumbria University hosted Disaster and Development Society in association with the Northumbria Disaster and Development Network and Centre for International Development. It forms the latest in a series of 13 Dealing with Disasters Conferences (DwD) since 2006. Dealing with Disasters conferences take place in response to demands in the subject area to enable critical reflection and action on topics requiring new or renewed focus. Outcomes from this event will feed into policy and research related forums nationally and globally, including UNDRR Global Platform, UNFCCC Conference of the Parties and regional and global alliances of disaster researchers (e.g. UKADR, GADRI).

Website: <https://dealingwithdisasters2022.wordpress.com/>

4. Internet Resource List

- Global Alliance of Disaster Research Institutes
<http://www.gadri.net/>
- Emergency Events Database EM-DAT
<http://www.emdat.be/>
- World Economic Forum Database
<http://reports.weforum.org/>
- Global Assessment Report and UNISDR
<https://www.unisdr.org/we/inform/gar>
- Munich NatCatService
<http://www.munichre.com/en/reinsurance/business/non-life/natcatservice/index.html>
- Global Disaster Watch
<http://globaldisasterwatch.blogspot.co.at/>
- RSOE EDIS - Emergency and Disaster Information Service
<http://hisz.rsoe.hu/alertmap/index2.php>
- GDACS - Global Disaster Alert and Coordination System
<http://www.gdacs.org/>
- Pacific Disaster Center
<http://www.pdc.org/>
- Global Assessment Report on Disaster Risk Reduction 2013:
<http://www.preventionweb.net/english/hyogo/gar/2013/en/home/index.html>
- United Nations Office for Disaster Risk Reduction. Global Assessment Report (GAR)
<http://www.unisdr.org/we/inform/gar>
- PreventionWeb: Serving the information needs of the disaster reduction community:
<http://www.preventionweb.net/english/>

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- Disaster Reduction Hyper base: Web based facility to compile appropriate disaster reduction technologies and knowledge.
<http://drh.edm.bosai.go.jp/>
 - MCEER: Collection of disaster management resources, including international, federal, state, local and non-profit organizations:
http://mceer.buffalo.edu/infoservice/reference_services/disasterManagementResources.asp
 - Staffordshire Raynet: Disaster and Emergency Management on the Internet. Long list of websites for various disasters and databases.
<http://www.keele.ac.uk/depts/por/disaster.htm>
 - Internet Resources for Disaster Studies: University of Delaware Library
<http://www2.lib.udel.edu/subj/disasters/internet.htm>
 - FEMA Federal Emergency Management Agency: Focus is on the US
<http://www.fema.gov/index.shtm>
 - EDEN - Extension Disaster Education Network: Reducing the Impact of Disasters Through Education
<http://eden.lsu.edu/EDENCourses/Pages/default.aspx>
 - Disaster Handbook: University of Florida.
<http://disaster.ifas.ufl.edu/links.htm>
 - Disaster Management: Royal Roads University.
<http://libguides.royalroads.ca/content.php?pid=64941&sid=480216>
 - Natural Hazards and Disaster Information Resources: University of Colorado at Boulder (including newsletter).
<http://www.colorado.edu/hazards/resources/>
 - Center for Excellence in Disaster Management and Humanitarian Assistance
<https://www.cfe-dmha.org/>
 - Humanitarian Library
<http://www.humanitarianlibrary.org/>
 - UNHCR: Emergency Handbook
<https://emergency.unhcr.org/>
 - ProVention Consortium: Working in Partnership to Build Safer Communities and Reduce Disaster Risk
<http://www.proventionconsortium.net/?pageid=29>

5. Disaster Related Journals

- **Journal of Integrated Disaster Risk Management, IDRIM Journal**
<http://idrimjournal.com/index.php/idrim>
- **Economics of Disasters and Climate Change**
<http://www.springer.com/economics/environmental/journal/41885>
- **Journal of Extreme Events**
<http://www.worldscientific.com/worldscinet/joe>
- **Weather and Climate Extremes**
<http://www.journals.elsevier.com/weather-and-climate-extremes/>
- **Climate Risk Management**
<http://ees.elsevier.com/clrm/>
- **Journal of Geography & Natural Disasters**
<http://www.omicsgroup.org/journals/jgndhome.php>
- **Disaster Health**
<http://www.landesbioscience.com/journals/disasterhealth/>
- **International Journal of Disaster Risk Reduction (IJDRR)**
http://www.elsevier.com/wps/find/journaldescription.cws_home/727506/description#description
- **Journal of Contingencies and Crisis Management**
<http://onlinelibrary.wiley.com/journal/10.1111/%28ISSN%291468-5973>
- **Australasian Journal of Disaster and Trauma Studies**
<http://www.massey.ac.nz/~trauma/welcome.shtml>
- **Jàmbá: Journal of Disaster Risk Studies**
<http://www.jamba.org.za/index.php/jamba/index>
- **Georisk: Assessment and Management of Risk for Engineered Systems and Geohazards**
<http://www.tandf.co.uk/journals/journal.asp?issn=17499518&linktype=1>
- **Current Opinion in Environmental Sustainability**
http://www.elsevier.com/wps/find/journaldescription.cws_home/718675/description#description

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- **International Journal of Risk Management (IJRM)**
<http://www.serialspublications.com/journals1.asp?jid=583>
 - **International Journal of Safety and Security Engineering**
<http://journals.witpress.com/jsse.asp>
 - **Global Environmental Change**
http://www.elsevier.com/wps/find/journaldescription.cws_home/30425/description#description
 - **Journal of Homeland Security and Emergency Management**
<http://www.bepress.com/jhsem/about.html>
 - **Journal of Emergency Management**
<http://www.pnpco.com/pn06001.html>
 - **International Journal of Disaster Resilience in the Built Environment**
<http://www.emeraldinsight.com/products/journals/journals.htm?id=IJDRBE>
 - **Regional Environmental Change**
<http://www.springer.com/environment/global+change+-+climate+change/journal/10113>
 - **Natural Hazards Review**
<http://ascelibrary.org/nho/>
 - **Journal of Risk Analysis and Crisis Response**
<http://www.atlantis-press.com/publications/jracr/index.html>
 - **Environmental Hazards**
<http://www.earthscan.co.uk/?tabid=37213>
 - **International Journal of Climate Change Strategies and Management (IJCCSM)**: www.emeraldinsight.com/products/journals/journals.htm?id=ijccsm
 - **Journal of Natural Disaster Science**
<https://www.jsnds.org/jnds/>
 - **Disasters**
<http://www.wiley.com/bw/journal.asp?ref=0361-3666&site=1>
 - **Environmental Hazards**
<http://www.earthscan.co.uk/?tabid=37213>

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- **Natural Hazards**
www.springer.com/earth+sciences+and+geography/hydrogeology/journal/11069
 - **Mitigation and Adaptation Strategies for Global Environmental Change**
<http://www.springer.com/earth+sciences+and+geography/meteorology+%26+climatology/journal/11027>
 - **Extremes**
<http://www.springer.com/statistics/journal/10687>
 - **International Journal of Disaster Resilience in the Built Environment**
<http://www.disaster-resilience.salford.ac.uk/international-journal-of-disaster-resilience>
 - **Journal of Disaster Research**
http://www.fujipress.jp/JDR/JDR_about.html
 - **Asian Journal of Environment and Disaster Management (AJEDM)**
<http://rpsonline.com.sg/journals/101-ajedm/ajedm.html>
 - **International Journal of Disaster Risk Science**
<http://www.springer.com/13753>
 - **Disaster Advances**
<http://www.disasterjournal.net/>
 - **International Journal of Mass Emergencies & Disasters**
<http://www.ijmed.org/>
 - **International Journal of Disaster Recovery and Business Continuity**
<http://www.sersc.org/journals/IJDRBC/>
 - **Disaster Prevention and Management**
<http://www.emeraldinsight.com/products/journals/journals.htm?id=dpm>
 - **Risk Analysis**
<http://www.blackwellpublishing.com/journal.asp?ref=0272-4332&site=1>
 - **Journal of Risk Research**
<http://www.tandf.co.uk/journals/journal.asp?issn=13669877&linktype=1>
 - **International Journal of Risk Assessment and Management (IJRAM)**
<http://www.inderscience.com/browse/index.php?journalID=24>

6. New Books

Proceedings of the 3rd Global Summit of Research Institutes for Disaster Risk Reduction

Authors: Hirokazu Tatano, Andrew Collins

Year: 2022

Publisher: Springer

ISBN: 978-981-15-8661-3

Content: This book presents selected papers from the 3rd Global Summit of Research Institutes for Disaster Risk Reduction – Expanding the Platform for Bridging Science and Policy Making, which was held at the Disaster Prevention Research Institute (DPRI), Kyoto University, Uji Campus from 19 to 21 March 2017. It was organised by the Global Alliance of Disaster Research Institutes (GADRI), which was established soon after the second Global Summit and the UN World Conference on Disaster Risk Reduction in March 2015, and is intended to support the implementation of the Sendai Framework for Disaster Risk Reduction 2015–2030. The conference not only provided a platform for discussion and exchange of information on key current and future research projects on disaster risk reduction and management, but also promoted active dialogues through group discussion sessions that addressed various disaster research disciplines. In this book, authors from various disciplines working at governmental and international organisations provide guidance to the science and technical community, discuss the current challenges, and evaluate the research needs and gaps in the context of climate change, sustainable development goals and other interlinked global disaster situations. Expert opinions from practitioners and researchers provide valuable insights into how to connect and engage in collaborative research with the international science and technical communities and other stakeholders to achieve the goals set out in the agenda of the Sendai Framework for Disaster Risk Reduction 2015–2030. In addition, case studies and other evidence-based research papers highlight ongoing research projects and reflect the challenges encountered in information sharing by various stakeholders in the context of disaster risk reduction and management.

Methodologies for Estimating the Economic Impacts of Natural Disasters

Authors: Hirokazu Tatano, Yoshio Kajitani

Year: 2022

Publisher: 2022

ISBN: 978-981-16-2718-7

Content: This book outlines methodologies to estimate the economic impacts of natural disasters based on business surveys conducted after large disasters in Japan. By including numerous observations on business activities in past disasters and the validations of both engineering and economic models based on these data sets, this book appeals to practitioners who estimate the regional economic impacts as well as to students and young professionals in various

fields who conduct disaster impact studies. The book consists of 7 chapters and includes theories and practices, which help readers to interlink the estimation methods with real-world problems. The study primarily focuses on cases in Japan, but the methods employed can be generalized and applied in other countries.

Disasters and Neoliberalism: Different Expressions of Social Vulnerability

Authors: Gabriela Vera-Cortés (Editor), Jesús Manuel Macías-Medrano (Editor)

Year: 2021

Publisher: Springer

ISBN: 3030549046

Content: This book shows how the adoption of the neoliberal development model has increased the social vulnerability to disasters, with a special focus on Mexico, a country which once was the role model of the neoliberal turn in Latin America. It brings together 12 case studies of disasters such as floods, earthquakes and volcanic emergencies, in both urban and rural areas, to show how neoliberal development projects and changes in legislation affected disaster prevention and management in different parts of the country. The case studies from Mexico are complemented by two comparative studies which analyze the impacts of neoliberalism in disaster prevention and management in Mexico, Brazil, United States and Italy. *Disasters and Neoliberalism: Different Expressions of Social Vulnerability* presents a unique contribution to the interdisciplinary field of disaster research by presenting qualitative studies of disaster vulnerability from the perspective of scholars from the Global South, bringing a fresh and critical approach to English speaking social sciences qualitative researchers working on disaster risks in a number of fields, such as geography, anthropology, sociology, political science and environmental studies.

Historic Cities in the Face of Disasters: Reconstruction, Recovery and Resilience of Societies

Authors: Fatemeh Farnaz Arefian (Editor), Judith Ryser (Editor), Andrew Hopkins (Editor), Jamie Mackee (Editor)

Year: 2021

Publisher: Springer

ISBN: 3030773558

Content: This book examines reconstruction and resilience of historic cities and societies from multiple disciplinary and complementary perspectives and, by doing so, it helps researchers and practitioners alike, among them reconstruction managers, urban governance and professionals. The book builds on carefully selected and updated papers accepted for the 2019 Silk Cities international conference on 'reconstruction, recovery and resilience of historic cities and societies', the third Silk Cities conference held in L'Aquila, Italy, 10-12 July 2019, working with University of L'Aquila and UCL. This multi-scale, and multidisciplinary book offers cross-sectoral and complimentary voices from multiple stakeholders, including academia, urban governance, NGOs and local

populations. It examines post-disaster reconstruction strategies and case studies from Europe, Asia and Latin America that provide a valuable collection for anyone who would like to get a global overview on the subject matter. It thereby enables a deeper understanding of challenges, opportunities and approaches in dealing with historic cities facing disasters at various geographical scales. Additionally, it brings together historical approaches to the reconstruction of historical cities and those of more recent times. Thus, it can be used as a reference book for global understanding of the subject matter.

Multi-Hazard Early Warning and Disaster Risks

Authors: Dilanthi Amaratunga (Editor), Richard Haigh (Editor), Nuwan Dias

Year: 2021

Publisher: Springer

ISBN: 3030730026

Content: This book presents a collection of papers under the theme of multi-hazard early warning and disaster risks. These were selected from the presentations made at the International Symposium on Tsunami and Multi-Hazard Risks, Early Warning and Community Awareness in supporting implementation of the Sendai Framework for Disaster Risk Reduction 2015-2030. This conference aimed to recognize achievements and to highlight work that still needs to be carried out. The conference promoted collaboration among academia, research institutions and disaster management offices, and further encouraged multidisciplinary and multi-sectoral interaction. This International Symposium on Multi-Hazard Early Warning and Disaster Risk Reduction provided an important opportunity to reflect upon our progress to date in tackling disaster risk, but also to consider some of the challenges and opportunities that lay ahead of us. A particular focus of this event was Multi-Hazard Early Warning. During the negotiations for the Sendai Framework, countries and partners highlighted the need to: 1. Continue to invest in, develop, maintain and strengthen people-centred, end-to-end early warning systems; 2. Promote the application of simple and low cost early warning equipment and facilities; 3. Broaden the dissemination channels for early warning information to facilitate early action. Countries also called for the further development of and investment in effective, nationally compatible, regional multi-hazard early warning mechanisms. To address these needs, global Target (g) of the Sendai Framework was adopted, namely to “substantially increase the availability of and access to multi-hazard early warning systems and disaster risk information and assessments to the people by 2030”. As illustrated by recent events in Indonesia, it is also vital to address the challenge of cascading hazards that pose a tsunami risk, and the importance of linking tsunami early warning to a multi-hazard environment. However, moving towards a multi-hazard environment is complex and poses many challenges but can bring significant benefits in terms of efficiencies and also in recognising the links between hazards, such as cascading threats. We very much hope that this book will provide an important platform to address these and other challenges in addressing disaster risk, as

well as supporting implementation of the Sendai Framework for Disaster Risk Reduction

Ecosystem-Based Disaster and Climate Resilience: Integration of Blue-Green Infrastructure in Sustainable Development

Authors: Mahua Mukherjee (Editor), Rajib Shaw (Editor)

Year: 2021

Publisher: Springer

ISBN: 981164814X

Content: This book provides an introduction to the critical role of ecosystem-based disaster risk resilience (Eco-DRR) for building community resilience to multiple environmental risks such as rising heat, water stress, and pollution. Blue-green infrastructure (BGI) is an Eco-DRR tool that is an under-explored paradigm and can respond as one common strategy to targets set by the Sustainable Development Goals (UNDP), Climate Agreements (UNEP), the Sendai Framework (UNISDR), and the New Urban Agenda (UNCHS). Highlighted here in a systematic way is the importance of blue-green infrastructures in resilience building. The purpose is to introduce readers to the challenging context of development and opportunity creation for Eco-DRR. The roles of policy, scientific research, and implementation are presented cohesively. An attractive proposition of the book is a collection of case studies from different parts of the world where integration of BGI is experimented with at various levels of success. It envisages that shared tacit experiences from the realm of practice will further strengthen explicit knowledge. The focus in this book is on need and context building, policy and science (investigation, analysis, and design), case studies, and a road map for the future in four successive parts. Each part is self-sufficient yet linked to its predecessor, successor, or both, as the case may be.

Disaster Studies: Exploring Intersectionalities in Disaster Discourse

Authors: Janki Andharia

Year: 2021

Publisher: Springer

ISBN: 9813293411

Content: This book covers several dimensions of disaster studies as an emerging discipline. It is the inaugural book in the series 'Disaster Studies and Management' and deals with questions such as "Is disaster management a field of practice, a profession, or simply a new area of study?" Exploring intersectionalities, the book also examines areas of research that could help enhance the discourse on disaster management from policy and practice perspectives, revisiting conventional event-centric approaches, which are the basis for most writings on the subject. Several case studies and comparative analyses reflect a critical reading of research and practice concerning disasters and their management. The book offers valuable insights into various subjects including the challenge of establishing inter- and multi-disciplinary teams within the academia involved in disaster studies, and sociological and anthropological readings of post-disaster memoryscapes. Each of the contributors has an enduring interest in disaster studies, thus enriching the book immensely. This

book will be of interest to all the students and scholars of disaster studies and disaster management, as well as to practitioners and policymakers.

Disasters and Economic Recovery

Authors: Davia C. Downey

Year: 2021

Publisher: Routledge

ISBN: 0367258587

Content: *Disasters and Economic Recovery* provides perspectives on the economic issues that emerge before, during, and after natural disasters in an international context, by assessing the economic development patterns that emerge before and after disaster. This book will provide a historical overview of emergency management policy and previous responses to disasters in each country, as well as the policy learning that occurred in each case leading up to the disasters under analysis. The book highlights four cases: New Orleans; Christchurch, New Zealand; the Japan earthquake and tsunami; and Hurricane Sandy in the Northeastern United States. The book places important focus on the specific collaborative developments unique to the rebuilding of each place's economy post-disaster. Using time-series data, the book shows the emergence of new industries and job hiring patterns in the immediate aftermath, as well as provides a picture of the economic performance of each country in the years following each event. Looking at the economic development policies pre- and post-disaster, readers will glean important lessons on how to build resilient economies within the disaster framework, highlighting the differences in approaches to rebuilding local economies in places with varying levels of governmental capacity post-disaster to inform policymakers, scholars, and the disaster relief community as they plan their response to future disasters.

Supply Chain Resilience: Reducing Vulnerability to Economic Shocks, Financial Crises, and Natural Disasters

Authors: Venkatachalam Anbumozhi (Editor), Fukunari Kimura (Editor), Shandre Mugan Thangavelu (Editor)

Year: 2021

Publisher: Springer

ISBN: 9811528721

Content: This book investigates individual companies' and industries' supply chain risk management approaches to identify risk drivers and verify effective risk-reduction measures and business continuity plans. Typically, supply chain risk assessments focus on normative guidelines based on single best practice examples or vulnerability events, and there has been little work exploring how the concepts of supply chain risk management and resilience are related. However, since this relationship has implications for developing integrated response strategies, a clear understanding of the possible consequences is a fundamental step in building socio-economic resilience along the supply chain. Against this background, the book addresses three main topics: firstly, it defines the

conceptual and sectoral domains of supply chain risk management and resilience by examining the welfare effects of extreme weather events and other economic shocks on selected global supply chains. It then presents an in-depth analysis of the scope of public–private partnerships to tackle the risks, by empirically exploring supply chain risk effects and information management. Thirdly, it proposes a regional cooperation framework in the context of major supply chain vulnerability events such as disasters and global financial crises.

Natural Disasters in Latin America and the Caribbean: Coping with Calamity (Latin American Tópicos) 1st Edition

Authors: June Carolyn Erlick

Year: 2020

Publisher: Routledge

ISBN: 0367265842

Content: *Natural Disasters in Latin America and the Caribbean: Coping with Calamity* explores the relationship between natural disasters and civil society, immigration and diaspora communities and the long-term impact on emotional health. Natural disasters shape history and society and, in turn, their long-range impact is determined by history and society. This is especially true in Latin America and the Caribbean, where climate change is increasing the frequency and intensity of these extreme events. Ranging from pre-Columbian flooding in the Andes to the devastation of Hurricane Maria in Puerto Rico, this book focuses on long-range recovery and recuperation, rather than short-term disaster relief. Written in the time of the coronavirus pandemic, the author shows how lessons learned about civil society, governance, climate change, inequality and trauma from natural disasters have their echoes in the challenges of today's uncertain world. This book is well-suited to the classroom and will be an asset to students of Latin American history, environmental history and historical memory.

The Impact of Natural Disasters on Systemic Political and Social Inequities in the U.S.

Authors: Paul S. Adams, Geoffrey L. Wood

Year: 2020

Publisher: Lexington Books

ISBN: 1793627991

Content: *The Impact of Natural Disasters on Systemic Political and Social Inequities in the U.S.* examines how natural disasters impact social inequality in the United States. The contributors cover topics such as criminal justice, demographics, economics, history, political science, and sociology to show how effects of natural disasters vary by social and economic class in the United States. This volume studies social and political mechanisms in disaster response and relief that enable natural disasters to worsen inequalities in America and offers potential solutions.

Handbook of Disaster Risk Reduction for Resilience: New Frameworks for Building Resilience to Disasters 1st ed. 2021 Edition

Authors: Saeid Eslamian and Faezeh Eslamian

Year: 2021

Publisher: Springer

ISBN: 3030612775

Content: This book is part of a six-volume series on Disaster Risk Reduction and Resilience. The series aims to fill in gaps in theory and practice in the Sendai Framework, and provides additional resources, methodologies and communication strategies to enhance the plan for action and targets proposed by the Sendai Framework. The series will appeal to a broad range of researchers, academics, students, policy makers and practitioners in engineering, environmental science and geography, geoscience, emergency management, finance, community adaptation, atmospheric science and information technology. This volume discusses how to measure and build disaster resilience at society's capacity, drawing upon individual, institutional and collective resources to cope with and adapt to the demands and challenges of natural disaster occurrences. The book will serve as a guide, outlining the key indicators of disaster resilience in urban and rural settings, and the resources and strategies needed to build resilient communities in accordance with the targets of the Sendai Framework. Readers will learn about multi-risk reduction approaches using computational methods, data mining techniques, and System Thinking at various scales, as well as institutional and infrastructure resilience strategies based on several case studies.

Emerging Technologies for Disaster Resilience: Practical Cases and Theories (Disaster Risk Reduction) 1st ed. 2021 Edition

Authors: Mihoko Sakurai and Rajib Shaw

Year: 2021

Publisher: Springer

ISBN: 9811603596

Content: Technological advances have helped to enhance disaster resilience through better risk reduction, response, mitigation, rehabilitation and reconstruction. In former times, it was local and traditional knowledge that was mainly relied upon for disaster risk reduction. Much of this local knowledge is still valid in today's world, even though possibly in different forms and contexts, and local knowledge remains a shared part of life within the communities. In contrast, with the advent of science and technology, scientists and engineers have become owners of advanced technologies, which have contributed significantly to reducing disaster risks across the globe.

This book analyses emerging technologies and their effects in enhancing disaster resilience. It also evaluates the gaps, challenges, capacities required and the way forward for future disaster management. A wide variety of technologies are addressed, focusing specifically on new technologies such as cyber physical systems, geotechnology, drone, and virtual reality (VR)/

augmented reality (AR). Other sets of emerging advanced technologies including an early warning system and a decision support system are also reported on. Moreover, the book provides a variety of discussions regarding information management, communication, and community resilience at the time of a disaster. This book's coverage of different aspects of new technologies makes it a valuable resource for students, researchers, academics, policymakers, and development practitioners.

Climate Change, Disaster Risks, and Human Security: Asian Experience and Perspectives (Disaster Risk Reduction) 1st ed. 2021 Edition, Kindle Edition

Authors: Juan M. Pulhin (Editor), Makoto Inoue (Editor), Rajib Shaw (Editor)

Year: 2021

Publisher: Springer

ISBN:

Content: This book explores how climate change and disaster risks threaten human security in Asia. Climate change and disaster risks have emerged as major human security challenges in the twenty-first century, and are an imminent “threat multiplier” with the potential to harm the vital core of human life and curtail people’s freedom and ability to live with dignity. Climate change and disaster risks undermine the security of individuals, communities, nations, and the world, considering the increasing trend in the frequency and magnitude of hydro-meteorological disasters and the projections on their future adverse impacts. Despite recent advances in the literature, there is still a major gap in understanding the relationship and linkages between climate change, disaster risks, and human security, particularly as gleaned from the Asian experience. Asia is the world’s most vulnerable region in terms of the quantity and magnitude of impacts from various forms of disaster. At the same time, it has developed a number of innovative responses to address those risks, offering a wealth of experience. Exploring and capitalizing on the Asian perspective, this book provides valuable resource material for students, academics, researchers, policymakers, and development practitioners working in these areas.

Extreme and Systemic Risk Analysis

Authors: Hochrainer-Stigler, Stefan

Year: 2020

Publisher: Springer

ISBN: 978-981-15-2688-6

Content: This book is about how extreme and systemic risk can be analyzed in an integrated way. Risk analysis is understood to include measurement, assessment as well as management aspects. Integration is understood as being able to perform risk analysis for extreme and systemic events simultaneously. The presented approach is based on Sklar's theorem, which states that a multivariate distribution can be separated into two parts – one describing the marginal distributions and the other describing the dependency between the

distributions using a so-called copula. It is suggested to reinterpret Sklar's theorem from a system or network perspective, treating copulas as a network property and individual, including extreme, risk as elements within the network. In that way, extreme and systemic risk can be analyzed independently as well as jointly across several scales. The book is intended for a large audience, and all techniques presented are guided with examples and applications with a special focus on natural disaster events. Furthermore, an extensive literature and discussion of it are given in each chapter for the interested reader.

Disaster Risk Reduction and Resilience

Authors: Muneta Yokomatsu, Stefan Hochrainer-Stigler

Year: 2020

Publisher: Springer

ISBN: 978-981-15-4319-7

Content: This book provides insight on how disaster risk management can increase the resilience of society to various natural hazards. The multi-dimensionality of resilience and the various different perspectives in regards to disaster risk reduction are taken explicitly into account by providing studies and approaches on different scales and ranging from natural science based methods to social science frameworks. For all chapters, special emphasis is placed on implementation aspects and specifically in regards to the targets and priorities for action laid out in the Sendai Framework for Disaster Risk Reduction. The chapters provide also a starting point for interested readers on specific issues of resilience and therefore include extensive reference material and important future directions for research.

Disaster Studies

Authors: Janki Andharia

Year: 2020

Publisher: Springer

ISBN: 978-981-329-338-0

Content: This book covers several dimensions of disaster studies as an emerging discipline. It is the inaugural book in the series 'Disaster Studies and Management' and deals with questions such as "Is disaster management a field of practice, a profession, or simply a new area of study?" Exploring intersectionalities, the book also examines areas of research that could help enhance the discourse on disaster management from policy and practice perspectives, revisiting conventional event-centric approaches, which are the basis for most writings on the subject. Several case studies and comparative analyses reflect a critical reading of research and practice concerning disasters and their management. The book offers valuable insights into various subjects including the challenge of establishing inter- and multi-disciplinary teams within the academia involved in disaster studies, and sociological and anthropological readings of post-disaster memoryscapes. Each of the contributors has an enduring interest in disaster studies, thus enriching the book immensely. This

book will be of interest to all the students and scholars of disaster studies and disaster management, as well as to practitioners and policymakers.

Disaster Risk Communication

Authors: Katsuya Yamori

Year: 2020

Publisher: Springer

ISBN: 978-981-13-2317-1

Content: This book provides a unique blend of integrated disaster risk communication research conducted by authors with diverse backgrounds, including social psychology, sociology, civil engineering, informatics, and meteorology. It reports on the latest advances in collaborative and participatory action research on community-based disaster management from the frontline in Japan, Nepal, China and the USA. In addition, it employs and integrate a broad range of methodologies, including mathematical analyses, computer simulations, questionnaire surveys, gaming approaches, and participatory observation. Each chapter deals with disaster risk communication initiatives to address various hazards, such as earthquakes, tsunamis, floods and landslides, which are uniquely integrated from a social psychological perspective.

Resistance, Resilience, and Recovery from Disasters: Perspectives from Southeast Asia

Authors: Ma. Regina M. Hechanova (Editor), Lynn C. Waelde (Editor)

Year: 2020

Publisher: Emerald Publishing Limited

ISBN: 978-1839097911

Content: The book fills a void by bringing together literature in an under-represented but disaster-prone region - Southeast Asia. It discusses the cultural considerations of those providing mental health and psychosocial support in the region. It highlights the role of education in reducing disaster vulnerability. It presents ways in which workplace organization have sought to enhance employee and organizational resilience in the face of disasters. It discusses how the disaster planning process, including prevention, mitigation, and preparedness efforts, can be integrated with mental health efforts. It features how mental health interventions including psychological first aid, resilience interventions, mindfulness, and art therapy have been carried out. It also discusses the issues of those caring for survivors and describes MHPSS interventions for disaster responders themselves. The book also addresses post-traumatic growth as an outcomes of disaster exposure, concluding by summarizing the challenges and prospects for promoting resistance, resilience, and recovery in SEA.

Natural Disasters and Climate Change: Innovative Solutions in Financial Risk Management

Authors: Juan José Durante (Editor), Rafael Rosillo (Editor)

Year: 2020

Publisher: Springer

ISBN: 978-3030437060

Content: This book presents a technical approach to promoting the development of disaster and climate change risk financing and transfer strategies, and discusses several practical issues, chiefly focusing on Latin America and the Caribbean. Innovative risk financing and insurance mechanisms are vital for governments around the world, in order to provide financial protection and reduce the economic costs and social and developmental impacts of natural disasters and climate change. The book's main content is complemented by a wealth of graphics, diagrams and tables that illustrate the concepts discussed and make the text accessible for practitioners and non-practitioners alike. The book offers proven, creative and innovative ideas on how to tackle risk financing and management for natural disasters and climate change. Strategic topics such as sovereign disaster risk financing, property catastrophe risk insurance, and agricultural insurance are also discussed.

Nature-based Solutions for Resilient Ecosystems and Societies

Authors: Shalini Dhyani (Editor), Anil Kumar Gupta (Editor), Madhav Karki (Editor)

Year: 2020

Publisher: Springer

ISBN: 978-9811547119

Content: Over the past few decades, the frequency and severity of natural and human-induced disasters have increased across Asia. These disasters lead to substantial loss of life, livelihoods and community assets, which not only threatens the pace of socio-economic development, but also undo hard-earned gains. Extreme events and disasters such as floods, droughts, heat, fire, cyclones and tidal surges are known to be exacerbated by environmental changes including climate change, land-use changes and natural resource degradation. Increasing climate variability and multi-dimensional vulnerabilities have severely affected the social, ecological and economic capacities of the people in the region who are, economically speaking, those with the least capacity to adapt. Climatic and other environmental hazards and anthropogenic risks, coupled with weak and wavering capacities, severely impact the ecosystems and Nature's Contributions to People (NCP) and, thereby, to human well-being. Long-term resilience building through disaster risk reduction and integrated adaptive climate planning, therefore, has become a key priority for scientists and policymakers alike. Nature-based Solutions (NbS) is a cost-effective approach that utilizes ecosystem and biodiversity services for disaster risk reduction and climate change adaptation, while also providing a range of co-benefits like sustainable livelihoods and food, water and energy security. This book discusses the concept of Nature-based Solutions (NbS) – both as a science and as art – and elaborates on how it can be applied to

develop healthy and resilient ecosystems locally, nationally, regionally and globally. The book covers illustrative methods and tools adopted for applying NbS in different countries. The authors discuss NbS applications and challenges, research trends and future insights that have wider regional and global relevance. The aspects covered include: landscape restoration, ecosystem-based adaptation, ecosystem-based disaster risk reduction, ecological restoration, ecosystem-based protected areas management, green infrastructure development, nature-friendly infrastructure development in various ecosystem types, agro-climatic zones and watersheds. The book offers insights into understanding the sustainable development goals (SDGs) at the grass roots level and can help indigenous and local communities harness ecosystem services to help achieve them. It offers a unique, essential resource for researchers, students, corporations, administrators and policymakers working in the fields of the environment, geography, development, policy planning, the natural sciences, life sciences, agriculture, health, climate change and disaster studies.

Emergency Management: Concepts and Strategies for Effective Programs 2nd Edition

Authors: Dennis W. Tafoya

Year: 2020

Publisher: Palgrave Macmillan

ISBN: 978-3030370732

Content: This book explores how and why an event is a precursor to the emergence of a crisis and how a given crisis affects an organization and its stakeholders. Using existing systems theory blended with innovative use of wave, epidemiological, immunological and psycho-social theories, the author discusses ways to understand the effects of different types of crises while showing how to document and/or quantitatively measure those effects. The book offers new models illustrating how events trigger crises and how they subsequently morph into catastrophes and disasters. Using theories and tools tested in organizational settings to identify contributors to a traumatic event, this book makes a valuable contribution to organizational and crisis management literature.

Emergency Management: Concepts and Strategies for Effective Programs 2nd Edition

Authors: Nikolas Scherer

Year: 2020

Publisher: Routledge

ISBN: 978-0367342470

Content: This book provides one of the first systematic in-depth studies on regional catastrophe risk pools. It explores the various goals of these new financial instruments, illustrating how they function on a conceptual, technical and practical level, and reconstructs their political genesis. With climate-related

disasters increasing in frequency and severity, *Insuring Against Climate Change* explores how affected countries, especially those in the Global South, have increasingly turned to innovative index insurance instruments, as demonstrated by the creation of the Caribbean Catastrophic Risk Insurance Facility (CCRIF), the African Risk Capacity (ARC) and the Pacific Catastrophe Risk Assessment and Financing Initiative Facility (PCRAFI Facility). Scherer scrutinizes the formation of this trend, exploring comparatively the goals, characteristics and histories of these tools, and argues that their attractiveness rests more on political than economic benefits and is, in fact, more supply than demand-driven. Making a significant contribution to current debates on the opportunities and limitations of what are sometimes described as indirect 'climate risk insurance', this book will be of great interest to political scientists with an interest in insurance instruments and climate-related disaster management politics as well as to practitioners working in the insurance, finance and the development sectors.

An Interdisciplinary Approach for Disaster Resilience and Sustainability

Authors: Pal, I., von Meding, J., Shrestha, S., Ahmed, I., Gajendran, T. (Eds.)

Year: 2020

Publisher: Springer

ISBN: 978-981-329-526-1

Content: This book includes selected papers presented at the international expert forum on "Mainstreaming Resilience and Disaster Risk Reduction in Education," held at the Asian Institute of Technology, Thailand on 1–2 December 2017. The journey towards disaster risk reduction and resilience requires the participation of a wide array of stakeholders ranging from academics to policymakers, to disaster managers. Given the multifaceted and interdependent nature of disasters, disaster risk reduction and resilience require a multidisciplinary problem-solving approach and evidence-based techniques from the natural, social, engineering, and other relevant sciences. Traditionally, hazard and disaster-related studies have been dominated by the engineering and social science fields. In this regard, the main purpose of this book is to capture the multidisciplinary and multisectoral nature of disaster risk reduction, and to gather existing data, research, conceptual work, and practical cases regarding risk reduction and its ties to sustainable development under a single "umbrella." Along with the sustainability aspect, the book also links disaster risk reduction with development, technology, governance, education, and climate change, and includes discussions on challenges, solutions, and best practices in the mainstreaming of disaster risk reduction.

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9. Miscellaneous

Graduate Degree Program

We are pleased to announce a new blended Master of Science (MSc) Disaster Management: Resilience, Response and Relief course at the Humanitarian and Conflict Response Institute (HCRI) at The University of Manchester. Offered jointly with The Hong Kong Polytechnic University, this programme is designed for participants who intend to develop theoretical and practical knowledge and skills in the disaster risk management and humanitarian contexts. Graduates will be equipped to work and become leaders in the fields of disaster management, humanitarianism, and other related fields. This programme will further enhance students' personal and professional development and provide important collaborative links globally.. For more information please visit HCRI's website (<http://www.hcri.manchester.ac.uk/study-with-us/postgraduate-taught/>).

10. Other Newsletters:

- **IISD Reporting Services:** Free newsletters and lists for environment and sustainable development issues.
Website: <http://www.iisd.ca/email/subscribe.htm>
- **The International Emergency Management Society Newsletter (TIEMS)**
Website: <http://www.tiems.info/>
- **Natural Hazards Group Newsletters**
Website: http://www.agu.org/focus_group/NH/about/newsletters/
- **Disaster Research:** DISASTER RESEARCH (DR) is a moderated newsletter for creators and users of information about hazards and disasters.
Website: <http://www.colorado.edu/hazards/dr/currentdr.html>
- **Emergency Manager's Weekly Report**
Website:
<http://www.6pinternational.com/news.php?category=Emergency%20Managers%20Weekly%20Report&>
- **KatNet-Newsletter:** (mostly written in German)
Website: <http://www.katastrophennetz.de/>
- **EM-DAT: International Disaster Database Newsletter (CRED)**
Website: <http://www.emdat.be/publications>
- **DSCRN: Disaster and Social Crisis Research Network Newsletter**
Website: <http://www.dscrn.org/cms/index.php?page=newsletter>
- **International Institute for Sustainable Development Newsletter: IISD Reporting Services.**
Website: Climate Change: <http://climate-i.iisd.org/about-the-climate-i-mailing-list/>
General Information: <http://www.iisd.ca/>
- **Society of Risk Analysis Newsletter**
Website: <http://www.sra.org/newsletter.php>
- **ULC Institute for Risk and Disaster Reduction Newsletter**
Website: <http://www.ucl.ac.uk/rdr/irdr/newsletter/>

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