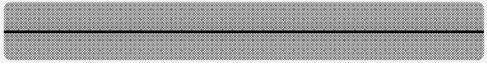

International Society for Integrated Disaster Risk Management



IDRiM Newsletter

Issue 18, August 2019



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1. IDRIM NEWS

A Message from the IDRiM President Professor Adam Rose

It is my great honor to continue to serve as President of the International Society for Integrated Disaster Risk Management. Since I communicated with you last, we have held a very successful Annual Conference in Sydney, Australia, and are looking forward to our next Conference this October in Nice, France. I hope to see many of you there.

First, I wish to thank all of those who've work diligently on these two Conferences, as well as various other IDRiM activities. Our Society is only strong if people are willing to give of their time and energy on these and other and initiatives.

Once again, I'm writing to you about an important aspect of the IDRiM Charter, which states as the Society's main objective: "To promote knowledge sharing, interdisciplinary research and development on integrated disaster risk management contributing to the implementation of successful models for efficient and equitable disaster risk management options. Furthermore, the IDRiM Society aims at promoting knowledge transfer and dissemination of information and concepts on integrated disaster risk management."

I am reiterating the IDRiM vision that I set forth in consultation with the IDRiM Board of Directors and Secretariat, and on which I would like to continue to engage the membership:

- *Stimulate high-quality research and research implementation*
- *Identify and explore new areas of inquiry in research and practice*
- *Advance the integration of the various aspects of our field*
- *Disseminate the work of the Society and its membership more widely*

-
- *Address pressing issues at the conceptual, methodological, empirical, policy and implementation levels*
 - *Influence policy at the local, regional, national, and international levels*
 - *Increase membership, with an eye toward attracting top people involved in research and practice*
 - *Foster more involvement and new initiatives from our younger members*
 - *Enhance the diversity of our membership*

My colleagues on the BoD and I welcome suggestions for further enhancing and promoting our vision. We plan to more formally reach out to you during this coming year for your feedback. Of course, Board members and I would very happy to discuss the vision with you at the forthcoming Annual Conference.

I again encourage all IDRiM members to avail themselves of the many perks of membership, including attending our conferences, publishing in our Journal, submitting manuscripts to our new IDRiM Book Series with Springer Publishers, reading our Newsletter, posting communications on our Website, and organizing and partaking of new IDRiM Initiatives.

I look forward to seeing many of you at our 2019 Conference in Nice this October. I also welcome other communications with you during the coming year.

Best regards,
Adam Rose
IDRiM President
adam.rose@usc.edu

IDRIM 2019 ANNUAL CONFERENCE

15-18 OCTOBER 2019

NICE, FRANCE

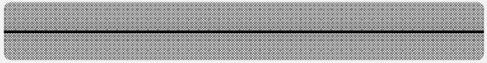
The International Society for Integrated Disaster Risk Management (IDRiM) was officially launched on October 15, 2009 in Kyoto, Japan, at the 9th IIASA-DPRI Forum on Integrated Disaster Risk Management (IDRiM Forum). The 3 last annual conferences were held in:

- *Isfahan, Iran in October 2016 “Disaster and Development: Towards a Risk Aware Society”.*
- *Reykjavik, Iceland in August, 2017 “Dimensions of Disaster Risk Reduction and Societal Resilience in a Complex World”.*
- *Sydney, Australia in October 2018 “Data-Driven Approaches to Integrated Disaster Management”.*

The next IDRIM Conference will take place in Nice, France on October 15 -18, 2018. The 2019 annual event for researchers and practitioners in integrated disaster risk management (IDRiM) will focus on the issues of

“Knowledge-based Disaster Risk Management: Broadening the scope by “Smart Territories” for Sustainable and Resilient Cities and Organizations”.

The main themes of “Smart” are related to integrating the “knowledge society and knowledge economy, sustainable development, and social inclusion”, with complexity theory, such as, for example, the important role of interconnectivity of networks and feedback effects. How and when this connectivity becomes positive or negative is both a challenge for “hard” sciences (e.g. what are the formal methods that provide valid tools to assess the efficiency of networks, as in see graph theory) and “soft” sciences in the field of risk, resilience and disasters (e.g. participative and deliberative governance frameworks).



The denomination “Smart City” is commonly given to an urban area that incorporates information and communication technologies to enhance the quality and performance of services such as, for example, energy, transportation and utilities in order to reduce resource consumption, waste and overall costs. A Smart City could contribute to enhancing the quality of living for its citizens through smart technologies. The main focus is on physical networks connectivity.

A territory is an organization that includes a set of sub-component organizations. These organizations can be regions, cities, villages, hamlets... They can be companies (e.g. industries, pipelines). They can be physical entities or legal entities. They can be visible or invisible (e.g. social networks). To understand how a territory can be “Smart”, we have to look both at the whole territorial organization and the interaction between these organizations at the broader level.

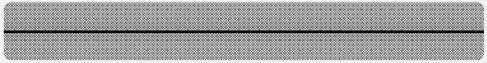
One of the distinctions made by geographers and regional scientists is that “Smart Territories” examine themes such as economic, social activity, and governance at different scales (large heterogeneous areas versus smaller, primarily urban, areas). Another aspect is the relationship between cities and their hinterlands.

The IDRiM2019 conference brings together researchers and scientists, regulators, risk and insurance, safety and security practitioners, media and NGOs to share expertise and practices on these two challenges:

- How to improve the common understanding of major extreme risks, man-made and natural disasters;
- How to foster individual, organizational and territorial abilities to manage and govern known and emerging risks and resiliencies.

The local organizers are CNRS-University of Nice (UMR ESPACE) and AFPCN (French Society for the Prevention of Natural Disasters) and their national/local partners. The location of the conference was carefully selected. The Alpes-Cote-d'Azur region is exposed to several natural risks (e. g. flooding), industrial risks (e. g. industry, transport of dangerous goods) and societal risks (e. g. terrorism). It is also an attractive conference venue.

IDRiM2019 encourages the submission of abstracts from all realms of engineering, human and social, natural, risk in safety-security-health-



environment, and other fields and sciences, to address the two challenges listed above to contribute to smart territories for sustainable and resilient cities and organizations in the face of disasters. Interdisciplinary and cross-sectoral approaches are needed to cope with such complex challenges.

The IDRiM2019 program includes plenary keynote speeches and expert panel interviews and discussions, as well as a wide selection of oral and poster presentations, including “young scientist” sessions and an award for the best young scientist paper and/or oral presentation of a poster. It will also include tutorials on core concepts, methods and tools that have been developed by the IDRiM community.

Disaster risk management presents unique challenges that require truly multi-disciplinary, and hence multi-sectoral perspectives and contributions emphasizing such aspects are most welcome.

INSTRUCTION FOR SUBMITTING ABSTRACTS AND PAPERS:

- **Abstract submission deadline:** 15 May 2019 (due to many requests for an extension of the deadline, the deadline for abstract submission has been extended from March 27th to May 15th)
- **SSP or WP special submission deadline:** 15 May 2019
- **Notification of abstract approval:** 25 May 2019
- **Paper submission** (special issues of IDRiM-affiliated journals): 30 June 2019
- **Notification of paper approval:** 15 August 2019

Website: <https://idrim2019.com/>



IDRiM Book Series

The Editors of the IDRiM Book Series invite submissions. Please send a one-page prospectus to Professors Norio Okada (kyotoکانori@gmail.com) or Adam Rose (adam.rose@usc.edu)

More information about the Series can be found at: <https://www.springer.com/series/13465>

2. Other NEWS

Global Report on Internal Displacement 2019 available

From the press release (<http://www.internal-displacement.org/global-report/grid2019/>): “

“A record 41.3 million people are displaced inside their own countries because of conflict and violence, according to a new report by the Internal Displacement Monitoring Centre (IDMC) of the Norwegian Refugee Council (NRC).

The number of people living in internal displacement worldwide as of the end of 2018 is the highest it has ever been, according to the Global Report on Internal Displacement, launched today at the United Nations in Geneva. This is an increase of more than a million since the end of 2017 and two-thirds more than the global number of refugees.

The record figure is the result of years of cyclical and protracted displacement, and high levels of new displacement between January and December 2018. IDMC recorded 28 million new internal displacements associated with conflict, generalised violence and disasters in 2018.

Ongoing conflict in the Democratic Republic of the Congo and Syria, and a rise in intercommunal tensions in Ethiopia, Cameroon and Nigeria’s Middle Belt region triggered most of the 10.8 million new displacements linked to conflict and violence. Internally displaced people (IDPs) who tried to return to their homes in Iraq, Nigeria and Syria during the year found their property destroyed, infrastructure damaged and basic services non-existent.”

“Extreme weather events were responsible for the majority of the 17.2 million new displacements associated with disasters in 2018. Tropical cyclones and monsoon floods led to mass displacement in the Philippines, China and India, mostly in the form of evacuations. California suffered the most destructive wildfires in its history, which displaced hundreds of thousands of people.

A number of countries were affected by both conflict and disasters. Drought in Afghanistan triggered more displacement than the country's armed conflict, and the crisis in north-eastern Nigeria was aggravated by flooding that affected 80 per cent of the country."

"The report shows that internal displacement is an increasingly urban phenomenon. Warfare in cities such as Dara'a in Syria, Hodeidah in Yemen and Tripoli in Libya accounted for much of the displacement recorded in the Middle East in 2018. Urban centres such as Dhaka in Bangladesh are also the preferred destination for many people fleeing the effects of climate change.

Such influxes present great challenges for cities and can aggravate existing risk factors. People who fled fighting in rural areas of Afghanistan and Somalia faced abject poverty, tenure insecurity and onward displacement from flooding and evictions in Kabul and Mogadishu.

"Regional press releases detailing more specific displacement within geographical areas are available for sub-Saharan Africa, the Americas, Asia and Middle East and North Africa." They can be found at (<http://www.internal-displacement.org/global-report/grid2019/>): "

About IDMC

The Internal Displacement Monitoring Centre (IDMC) is the world's authoritative source of data and analysis on internal displacement. Since its establishment in 1998, as part of the Norwegian Refugee Council (NRC), IDMC has offered a rigorous, independent and trusted service to the international community. Their work informs policy and operational decisions that improve the lives of the millions of people living in internal displacement, or at risk of becoming displaced in the future.

Website: <http://www.internal-displacement.org/>

Report available in different languages at:
<http://www.internal-displacement.org/global-report/grid2019/>

Global Assessment Report

GAR 2019 out

From the press release (<https://gar.unisdr.org/news/undrr-global-assessment-report-disaster-risk-reduction-calls-governments-take-urgent-action>):

“The world faces new, emerging, and much larger threats than ever before, linked to climate change, environmental degradation, and the growing potential for one disaster to produce or exacerbate another, says a new report from the United Nations.

The Global Assessment Report 2019 (GAR19) published by the United Nations Office for Disaster Risk Reduction (UNDRR) at the Global Platform for Disaster Risk Reduction, outlines major risks to human life and material property, ranging from air pollution and biological hazards, through to earthquakes, drought, and climate change.

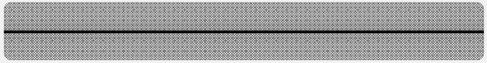
“Extreme changes in planetary and socioecological systems are happening now; we no longer have the luxury of procrastination. If we continue living in this way, engaging with each other and the planet in the way we do, then our very survival is in doubt,” said Mami Mizutori, the Special representative of the Secretary-General (SRSG) for Disaster Risk Reduction.

Unsustainable patterns of growth

The report warns that unsustainable patterns of economic activity hide the build-up of systemic risks across sectors citing for example, dangerous overdependence on single crops in an age of accelerating global warming.

“We witness severe inequalities of burden sharing between low and high income countries, with the poorest bearing the highest toll and greatest costs of disasters. Human losses and asset losses relative to GDP tend to be higher in the countries with the least capacity to prepare, finance and respond to disasters and climate change, such as in small island developing States,” the report argues.

There is growing potential for one disaster to produce or exacerbate another as happens often in the case of heavy rains which trigger landslides and mudslides following wildfires or periods of long drought, says the new report launched at the Global Platform for Disaster Risk Reduction.



SDGs

If governments do not adopt appropriate strategies to manage risk, then these threats could slow or even reverse progress towards the Sustainable Development Goals (SDGs), notably eradicating poverty and hunger, and action on climate change.

"The human race has never before faced such large and complex threats. The doubling of extreme weather events over the last twenty years is further evidence that we need a new approach to managing disaster risk if we are to limit disaster losses. Economic losses are making it an uphill battle to hold on to development gains in low and middle income countries," said SRSB Mizutori.

"At the same time, the resilience gap between rich and poor is made worse by poorly-planned urbanization, the disappearance of bio-diversity and protective eco-systems, population growth in disaster exposed areas which all add to a complex cocktail of risk which drives internal displacement and migration in search of a better life."

Adopting the Sendai Framework

The report urges governments to put the Sendai Framework for Disaster Risk Reduction into action, shifting focus from disaster management to reducing risk.

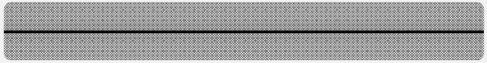
Adopted by UN Member States in 2015, the Sendai Framework aims to reduce the impact of disasters in terms of mortality, numbers of people affected, and economic loss. It requires governments to understand disaster risk, strengthen disaster risk governance, invest in resilience, and enhance disaster preparedness.

According to the last Global Assessment Report in 2015, annual global investments of USD 6 billion in appropriate disaster risk reduction strategies would generate total benefits of USD 360 billion each year.

"We must recognize that an international development financing system that allocates approximately 20 times the funding to emergency response, reconstruction, relief and rehabilitation activities rather than prevention and preparedness, acts counter to sustainability principles," SRSB Mizutori added.

Complex interactions

The complexity of our global economy and the interactions between human and natural systems means that one disaster can quickly provoke another. Population



growth and rising consumption are set to put more pressure on the world's ecosystems than ever before.

Drought is likely to emerge as a complex risk due to its wide-ranging, slow building, and cascading impacts. Drought can affect agriculture, water supply, energy production, transport, tourism, health, biodiversity, and ecosystems. A special report on drought will be published in 2020.”

Website: <https://gar.unisdr.org/report-2019>

Making Cities Resilient report 2019

A snapshot of how local governments progress in reducing disaster risks in alignment with the Sendai Framework for Disaster Risk Reduction

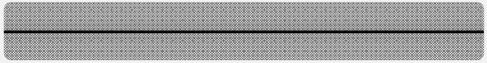
From the website (<https://www.unisdr.org/we/inform/publications/65889>):

“During 2017-2018, 214 cities/municipalities from Asia (88), the Americas (50), Sub-Saharan Africa (50), and Arab States (26) conducted the preliminary level assessment of the Disaster Resilience Scorecard for Cities, as part of the initiative, “Making Cities Sustainable and Resilient: Implementation of the Sendai Framework for Disaster Risk Reduction 2015-2030 at the Local Level”, supported by the European Commission. This report articulates the results of these preliminary Scorecard assessments into an analysis of the global trends of resilience actions, reflecting the progress in resilience building at the local level.

This analysis is an attempt to identify key challenges, opportunities, and recommendations for urban resilience, taking into consideration the elements within the Ten Essentials of the Making Cities Resilient Campaign including the aspects on local governance, financial and technical resources, policies and plans, and participation and engagement of citizens. Multiple descriptive statistical techniques were used to analyse the ordinal data. Content analysis, a form of thematic analysis, was used to identify key challenges, opportunities, and recommendations, based on the comments given by the respondents.

The results of this study reveal the state of being of local governments on disaster risk reduction, which permits an enhanced understanding of the progress towards achieving the targets of the Sendai Framework at the local level. This simultaneously reflects the progress made towards achieving the Sustainable Development Goals (SDGs), particularly SDG 11, “Make cities and human settlements inclusive, safe, resilient and sustainable”, which cannot be achieved without a substantive reduction of potential impact caused by disasters to population, society and economy.”

Available at: <https://www.unisdr.org/we/inform/publications/65889>



Asia pacific disaster report

From the ESCAP/CDR/2019/1 summary:

(https://www.unescap.org/sites/default/files/Summary%20of%20the%20Asia-Pacific%20Disaster%20Report%202019_English.pdf):

The Asia pacific disaster report “provides an overview of disaster trends and impacts in Asia and the Pacific, and, by including slow-onset disasters, for the first time a comprehensive estimate of annualized economic losses due to disasters was calculated. The Report also contains information on how disasters and exposure to multiple hazards play a significant role in reversing the social development of the region and will continue to widen various inequality gaps unless enhanced efforts and investments are made to reduce the risks and impacts

By employing an economic model and conducting a policy review of the many disaster risk reduction interventions already underway in the region, the secretariat was able to highlight policy options for breaking the cycle between disasters, poverty, inequality and disempowerment. The Report also contains highlights of opportunities arising from the technologies that have emerged in the fourth industrial revolution to create a pathway to empowering and including the poorest and most vulnerable people.

Website for the report: www.unescap.org/publications/asia-pacific-disaster-report-2019

Asian development outlook

From the website (<https://reliefweb.int/report/world/asian-development-outlook-2019-strengthening-disaster-resilience>):

“The annual Asian Development Outlook, now in its 30th year, analyzes economic performance in the past year and forecasts performance in the next 2 years for the 45 economies in Asia and the Pacific that make up developing Asia.

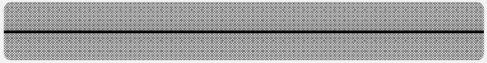
Growth prospects in developing Asia remain strong despite persistent external headwinds responsible for moderating expansion since 2017. Global trade and economic activity weakened toward the end of 2018, slowing growth in many economies in the region. The outlook is cloudy with risks that tilt to the downside:

A drawn-out trade conflict could undermine trade and investment in the region, and US fiscal policy and the consequences of a disorderly Brexit could weigh on growth in the advanced economies and the People’s Republic of China. Though the risk of sharp increases in US interest rates has subsided, policy makers must stay vigilant.

Disasters are shaped by natural hazards and the dynamics of the economy, society, and environment in which they occur. They pose a growing threat to development and prosperity in the region, their consequences disproportionately severe in developing countries, especially for the poor and marginalized. As developing Asia is home to more than four-fifths of the people affected by disasters globally in the past 2 decades, the region must strengthen its disaster resilience. This means integrating disaster risk reduction into national development and investment plans, spending more on prevention for a better balance with spending on rescue and recovery, and pooling risk through insurance and reinsurance.

Foreword

Despite increasing headwinds, developing Asia posted strong growth in 2018, albeit moderating from 2017. Growth in the region is projected to soften to 5.7% in 2019 and 5.6% in 2020. Excluding Asia’s high-income newly industrialized economies, growth is expected to slip from 6.4% in 2018 to 6.2% in 2019 and 6.1% in 2020.



As oil prices rose and Asian currencies depreciated, inflation edged up last year but remained low by historical standards. In light of stable commodity prices, inflation is anticipated to remain subdued at 2.5% in both 2019 and 2020.

Risks remain tilted to the downside. A drawn-out or deteriorating trade conflict between the People's Republic of China and the United States could undermine investment and growth in developing Asia. With various uncertainties stemming from US fiscal policy and a possible disorderly Brexit, growth in the advanced economies could turn out slower than expected, undermining the outlook for the People's Republic of China and other economies in the region. Though abrupt increases in US interest rates appear to have ceased for the time being, policy makers must remain vigilant in these uncertain times.

Disaster risk from natural hazards is a growing threat to the development and prosperity in the region, and the consequences tend to be more severe in developing countries affecting poor and marginalized people disproportionately. Home to more than four-fifths of the people affected by disasters globally in the past 2 decades, developing Asia must prioritize strengthening its disaster resilience. Governments should integrate disaster risk reduction into national development and investment plans. Spending more on prevention would bring a better balance with spending on response and provide better protection to people at risk. Pooling risk through insurance and reinsurance promises to be cost-efficient.”

Report available at: <https://www.adb.org/publications/asian-development-outlook-2019-strengthening-disaster-resilience>

3. Conference Announcements

- **16 October – 18 October 2019**
IDRiM Conference 2019, Knowledge based disaster risk management. Broadening the scope by “smart Territories” for sustainable resilience cities and Organizations.

The next IDRIM Conference will take place in Nice, France on October 16 -18, 2018. The 2019 annual event for researchers and practitioners in integrated disaster risk management (IDRiM) will focus on the issues of “**Knowledge-based Disaster Risk Management: Broadening the scope by "Smart Territories" for Sustainable and Resilient Cities and Organizations**”. The main themes of “Smart” are related to integrating the “knowledge society and knowledge economy, sustainable development, and social inclusion”, with complexity theory, such as, for example, the important role of interconnectivity of networks and feedback effects. How and when this connectivity becomes positive or negative is both a challenge for “hard” sciences (e.g. what are the formal methods that provide valid tools to assess the efficiency of networks, as in see graph theory) and “soft” sciences in the field of risk, resilience and disasters (e.g. participative and deliberative governance frameworks).

- **25 September – 27 September 2019**
6th International Conference on Disaster Management and Human Health Risk: Reducing Risk, Improving Outcomes

The International Conference on Disaster Management is being reconvened following the success of the previous meetings, held at Wessex Institute in the New Forest in 2009, the University of Central Florida in Orlando, USA in 2011, A Coruña, Spain in 2013, Istanbul Technical University, Turkey in 2015 and Seville, Spain, 2017. This series of conferences originated with the need for academia and practitioners to exchange knowledge and experience on the way to handle the increasing risk of natural and human-made disasters. Recent major earthquakes, tsunamis, hurricanes, floods and other natural phenomena have resulted in huge losses in terms of human life and property destruction. A new range of human-made disasters

have afflicted humanity in modern times; terrorist activities have been added to more classical disasters such as those due to the failure of industrial installations for instance. It is important to understand the nature of these global risks to be able to develop strategies to prepare for these events and plan effective responses in terms of disaster management and the associated human health impacts. The conference provides a forum for the exchange of information between academics and practitioners, and a venue for presentation of the latest developments. The corresponding volume of WIT Transactions containing the papers presented at the meetings are published in paper and digital format and widely distributed around the world. The papers are also archived in the WIT eLibrary (www.witpress.com/elibrary) where they are available to the international community.

Website: <https://www.wessex.ac.uk/conferences/2019/disaster-management-2019>

- **9 November-12 November 2019:
World Bosai Forum 2019**

The World Bosai Forum 2019 will be organized by the Tohoku University and will be held at the Sendai International Center, Sendai, Japan from 9 to 12 November 2019. The World Bosai Forum started with the wish that we would not want to increase the number of people suffering from disasters any more in the Tohoku area where we experienced the Great East Japan Earthquake and Tsunami. At the Third United Nations World Conference on Disaster Risk Reduction held in Sendai in 2015, The Sendai Framework for Disaster Risk Reduction was adopted, which is a guideline for global disaster reduction efforts and people around the world discussed future disaster reduction. The Sendai Framework for Disaster Risk Reduction incorporates many ideas such as the importance of disaster risk management investment, better recovery, promoting the implementation of the Sendai Framework for Disaster Risk Reduction is an important mission for Japan, since Japan has led the world in the field of disaster management. In addition, the activities of Japan and Tohoku in the process of recovery from the Great East Japan Earthquake that occurred on March 11, 2011 has attracted strong interest from all over the world.

Website: <http://www.worldbosaiforum.com/2019/english/overview/>

- **13-14 January 2020**

IDCEM 2020: International Conference on Disaster and Emergency Management

International Conference on Disaster and Emergency Management aims to bring together leading academic scientists, researchers and research scholars to exchange and share their experiences and research results on all aspects of Disaster and Emergency Management. It also provides a premier interdisciplinary platform for researchers, practitioners and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered and solutions adopted in the fields of Disaster and Emergency Management. Call for Contributions: Prospective authors are kindly encouraged to contribute to and help shape the conference through submissions of their research abstracts, papers and e-posters. Also, high quality research contributions describing original and unpublished results of conceptual, constructive, empirical, experimental, or theoretical work in all areas of Disaster and Emergency Management are cordially invited for presentation at the conference. The conference solicits contributions of abstracts, papers and e-posters that address themes and topics of the conference, including figures, tables and references of novel research materials.WA

Website: <https://waset.org/conference/2020/01/zurich/ICDEM>

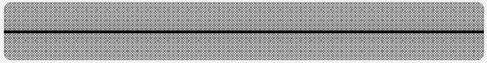
- **3-8 May 2020**

EGU General Assembly 2020

The EGU General Assembly 2020 will bring together geoscientists from all over the world to one meeting covering all disciplines of the Earth, planetary and space sciences. The EGU aims to provide a forum where scientists, especially early career researchers, can present their work and discuss their ideas with experts in all fields of geoscience. The EGU is looking forward to cordially welcoming you in Vienna. Deadlines & milestones (selection): Public call-for-session-proposals other programme groups: 25 June–5 September 2019; Session programme finalization: 9 September–9 October 2019;

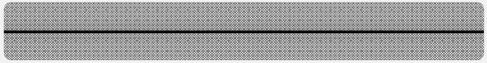
Abstract submission: 15 October 2019–15 January 2020; Support application: 15 October–1 December 2019

Website: <https://www.egu2020.eu/>



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/>.
- Disaster Reduction Hyper base: Web based facility to compile appropriate disaster reduction technologies and knowledge.

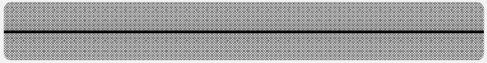


<http://drh.edm.bosai.go.jp/>

- 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.shtml>
- 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**
<http://www.soc.nii.ac.jp/jsnds/contents/jnds/about.html>
 - **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

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

Authors: Lucien G. Canton (Author)

Year: 2018

Publisher: Wiley

ISBN: 1119066859

Content: Provides a comprehensive examination of emergency management and offers concepts and strategies for creating effective programs. This book looks at the larger context within which emergency management response occurs, and stresses the development of a program to address a wide range of issues. Not limited to traditional emergency response to natural disasters, it addresses a conceptual model capable of integrating multiple disciplines and dealing with unexpected emergencies. *Emergency Management: Concepts and Strategies for Effective Programs, Second Edition* starts by focusing on the three pillars on which successful emergency management is based: an understanding of history, knowledge of social science research, and technical expertise in emergency management operations. It provides insight as to how emergency management has evolved and suggests reasons why the current method of response planning doesn't work as well as it should. The book then goes on to discuss establishing and administering the emergency management program. It looks at the analysis of risk as the basis for strategy development, and considers both the traditional macro view of hazard identification and analysis as well as the micro view required for continuity planning. Strategy development is examined next, followed by coverage of planning process, techniques and methods. The book finishes with chapters on coordinating response, leading in crisis, and crisis management. *Emergency Management: Concepts and Strategies for Effective Programs* is an important book that will benefit students, law enforcement, and state and local emergency managers and planners involved in emergency management.

Resilient Structures and Infrastructure 1st ed. 2019 Edition

Authors: Noroozinejad Farsangi, Ehsan (Editor), Izuru Takewaki (Editor), Tony Y. Yang (Editor), Abolhassan Astaneh-Asl (Editor), Paolo Gardoni (Editor)

Year: 2018

Publisher: Springer

ISBN: 9811374457

Content: This book discusses resilience in terms of structures' and infrastructures' responses to extreme loading conditions. These include static and dynamic loads such as those generated by blasts, terrorist attacks, seismic events, impact loadings, progressive collapse, floods and wind. In the last decade, the concept of resilience and resilient-based structures has increasingly

gained in interest among engineers and scientists. Resilience describes a given structure's ability to withstand sudden shocks. In other words, it can be measured by the magnitude of shock that a system can tolerate. This book offers a valuable resource for the development of new engineering practices, codes and regulations, public policy, and investigation reports on resilience, and provides broad and integrated coverage of the effects of dynamic loadings, and of the modeling techniques used to compute the structural response to these loadings

Disaster Risk Science

Authors: Peijun Shi (Author)

Year: 2018

Publisher: Springer

ISBN: 9811366888

Content: This is the first English language book to systematically introduce basic theories, methods and applications of disaster risk science from the angle of different subjects including disaster science, emergency technology and risk management. Viewed from basic theories, disaster risk science consists of disaster system, formation mechanism and process, covering 3 chapters in this book. From the perspective of technical methods, disaster risk science includes measurement and assessment of disasters, mapping and zoning of disaster risk, covering 4 chapters in this book. From the angle of application practices, disaster risk science contains disaster management, emergency response and integrated disaster risk paradigm, covering 3 chapters in the book. The book can be a good reference for researchers, students, and practitioners in the field of disaster risk science and natural disaster risk management for more actively participating in and supporting the development of "disaster risk science".

Palaeohydrology: Traces, Tracks and Trails of Extreme Events

Authors: Jürgen Herget (Editor), Alessandro Fontana (Editor)

Year: 2018

Publisher: Springer

ISBN: 3030233146

Content: The book provides a review of the most relevant topics on the booming discipline of palaeohydrology and focuses on previous extreme events like exceptional floods and droughts. Reviews written by leading experts of their fields are combined with selected key studies and presentations on up-to-day methodical and conceptual topics as a perspective for further research. Consequently, the compilation provides an excellent review on the state of the art of numerous relevant topics of palaeohydrology and acts as unique introduction for early career scientists and scientists of different disciplines working on hydrological extreme events, both in basic research and applied aspects.

Livestock Survival And Management During Disasters

Authors: Mahadevappa D Gouri (Author), Y. B. Rajeshwari (Author), S. B. Prasanna (Author)

Year: 2018

Publisher: New India Publishing Agency -NIPA

ISBN: 9387973107

Content: The book has covered all man made and natural disasters and their effect on livestock and how they can be managed better for longer survival and help to the humans. Topics on how animals can sense a disaster in advance and what are the common indications given by them and how humans can benefit from it. Book elucidates the management of feeding, feed resources, production and health so as to make the livestock production economical. It is hoped that the compilation will prove useful for the researchers, planners and policy makers to understand the causes for the loss of productivity and health of livestock in drier regions and help in devising management plans towards sustenance and improvement of production.

Reduction And Predictability Of Natural Disasters 1st Edition

Authors: John Rundle (Author), William Klein (Author), Don Turcotte (Author)

Year: 2018

Publisher: Routledge

ISBN: 0367320495

Content: Within the past five years, the international community has recognized that it may be possible, through programs of systematic study, to devise means to reduce and mitigate the occurrence of a variety of devastating natural hazards. Among these disasters are earthquakes, volcanic eruptions, floods, and landslides. The importance of these studies is underscored by the fact that within fifty years, more than a third of the world's population will live in seismically and volcanically active zones. The International Council of Scientific Unions, together with UNESCO and the World Bank, have therefore endorsed the 1990s as the International Decade of Natural Disaster Reduction (IDNDR), and are planning a variety of programs to address problems related to the predictability and mitigation of these disasters, particularly in third-world countries. Parallel programs have begun in a number of U.S. agencies.

The UNHCR and Disaster Displacement in the 21st Century: An Organizational Analysis

Authors: Sinja Hantscher

Year: 2018

Publisher: Springer

ISBN: 3030196887

Content: This book offers an in-depth case study on the leading international refugee agency, the United Nations High Commissioner for Refugees (UNHCR), and its approach to environmentally displaced persons. The author examines the UNHCR on the basis of expert interviews and content analysis in order to highlight why and how the organization is addressing the issue. The analysis draws on organizational as well as security theory, offering readers a better understanding of the connection between the two. The book appeals to scholars in the fields of migration and organizational studies, as well as policymakers and professionals working in international organizations.

Hurricane Risk

Authors: Jennifer M. Collins (Editor), Kevin Walsh (Editor)

Year: 2018

Publisher: Amazon Digital Services LLC

ASIN: B07NV9H1YF

Content: This book details the outcomes of new research focusing on climate risk related to hurricanes. Topics include numerical simulation of tropical cyclones, through tropical cyclone hazard estimation to damage estimates and their implications for commercial risk. Inspired by the 6th International Summit on Hurricanes and Climate Change: From Hazard to Impact, this book brings together leading international academics and researchers, and provides a source reference for both risk managers and climate scientists for research on the interface between tropical cyclones, climate and risk.

The Big Ones: How Natural Disasters Have Shaped Us (and What We Can Do About Them)

Authors: Lucy Jones

Year: 2018

Publisher: Doubleday

ISBN: 978-0385542708

Content: Earthquakes, floods, tsunamis, hurricanes, volcanoes--they stem from the same forces that give our planet life. Earthquakes give us natural springs; volcanoes produce fertile soil. It is only when these forces exceed our ability to withstand them that they become disasters. Together they have shaped our cities and their architecture; elevated leaders and toppled governments; influenced the way we think, feel, fight, unite, and pray. The history of natural disasters is a history of ourselves. In *The Big Ones*, leading seismologist Dr. Lucy Jones offers a bracing look at some of the world's greatest natural disasters, whose reverberations we continue to feel today. At Pompeii, Jones explores how a volcanic eruption in the first century AD challenged prevailing views of religion. She examines the California floods of 1862 and the limits of human memory. And she probes more recent events--such as the Indian Ocean tsunami of 2004 and the American hurricanes of 2017--to illustrate the potential for globalization to humanize and heal. With population in hazardous regions growing and temperatures around the world rising, the impacts of natural disasters are greater

than ever before. *The Big Ones* is more than just a work of history or science; it is a call to action. Natural hazards are inevitable; human catastrophes are not. With this energizing and exhaustively researched book, Dr. Jones offers a look at our past, readying us to face down the Big Ones in our future.

Climate Change and Insurance: Disaster Risk Financing in Developing Countries

Authors: Eugene N. Gurenko

Year: 2018

Publisher: Amazon Digital Services LLC

ISBN: 1844074838

Content: Climate change brings about a new set of major economic risks arising from changing weather patterns, extreme weather events and rising sea levels. Most at risk are developing countries who, despite considerable post-disaster donor aid, have been bearing the major brunt of disaster-related losses. One adaptation solution that is rapidly gaining the support of countries and international donors is a risk transfer to the global reinsurance and capital markets. This volume, a special issue of the journal *Climate Policy*, explores the role that insurance-based mechanisms can play in helping developing countries prepare for climate change. It offers a unique and comprehensive perspective on the potential role of insurance solutions in global adaptation to climate change and attempts to engender debate on the role of insurance in reducing global emissions and encouraging climate-friendly corporate behaviour.

The Sociotechnical Constitution of Resilience

Authors: Amir, Sulfikar (Ed.)

Year: 2018

Publisher: Palgrave Macmillan

ISBN: 978-981-10-8508-6

Content: This book considers the concept of resilience in a global society where coping with the consequence and long term impact of crisis and disaster challenges the capacity of communities to bounce back in the event of severe disruption. Catastrophic events such as the 9.11 terrorist attack, the Fukushima nuclear disaster, and the volcano eruption in Central Java entailed massive devastation on physical infrastructures, and caused significant social and economic damage. This book considers how the modern sociotechnological system facilitating human activity defines how societies survive and whether a crisis will be short-lived or prolonged. Drawing on the concept of sociotechnical resilience, this book closely examines a range of events North America, Asia, Australia, and Europe. By presenting the successes and failures of sociotechnical resilience, it offers important insights and practical lessons to build better and comprehensive understandings of resilience in a real-world setting, significantly contributing to the study of disaster resilience.

Natural Hazards GIS-based Spatial Modeling Using Data Mining Techniques

Authors: Pourghasemi, Hamid Reza, Rossi, Mauro (Eds.)

Year: 2018

Publisher: Springer International Publishing

ISBN: 978-3-319-73382-1

Content: This edited volume assesses capabilities of data mining algorithms for spatial modeling of natural hazards in different countries based on a collection of essays written by experts in the field. The book is organized into three parts which were under the editorial responsibility of different section editors: (1) Geophysical disasters, (2) Hydrological disasters, and (3) climatological disaster. The first part consists of landslides and earthquake (seismic) disasters. The second part includes flash flood, erosion, and land subsidence research. The final part focuses on climate change, forest fire, land fire, and drought subjects. Chapters were peer-reviewed by recognized scholars in the field of natural hazards research. Each chapter provides an overview on the topic, methods applied and discusses examples used. The concepts and methods are explained at a level that allows undergraduates to understand and other readers learn through examples. This edited volume is shaped and structured to provide the reader with a comprehensive overview of all covered topics. It serves as a reference for researchers from different fields including land surveying, remote sensing, cartography, GIS, geophysics, geology, natural resources, and geography. It also serves as a guide for researchers, students, organizations, and decision makers active in land use planning and hazard management.

Urban Resilience for Risk and Adaptation Governance

Authors: Brunetta, G., Caldarice, O., Tollin, N., Rosas-Casals, M., Morató, J. (Eds.)

Year: 2018

Publisher: Springer International Publishing

ISBN: 978-3-319-76943-1

Content: This book brings together a series of theory and practice essays on risk management and adaptation in urban contexts within a resilient and multidimensional perspective. The book proposes a transversal approach with regard to the role of spatial planning in promoting and fostering risk management as well as institutions' challenges for governing risk, particularly in relation to new forms of multi-level governance that may include stakeholders and citizen engagement. The different contributions focus on approaches, policies, and practices able to contrast risks in urban systems generating social inclusion, equity and participation through bottom-up governance forms and co-evolution principles. Case studies focus on lessons learned, as well as the potential and means for their replication and upscaling, also through capacity building and knowledge transfer. Among many other topics, the book explores difficulties encountered in, and creative solutions found, community and local experiences and capacities, organizational processes and integrative institutional, technical approaches to risk issue in cities.

Advances in Indian Earthquake Engineering and Seismology

Authors: Sharma, M.L., Shrikhande, Manish, Wason, H.R. (Eds.)

Year: 2018

Publisher: Springer International Publishing

ISBN: 978-3-319-76854-0

Content: This edited volume is an up-to-date guide for students, policy makers and engineers on earthquake engineering, including methods and technologies for seismic hazard detection and mitigation. The book was written in honour of the late Professor Jai Krishna, who was a pioneer in teaching and research in the field of earthquake engineering in India during his decades-long work at the University of Roorkee (now the Indian Institute of Technology Roorkee). The book comprehensively covers the historical development of earthquake engineering in India, and uses this background knowledge to address the need for current advances in earthquake engineering, especially in developing countries. After discussing the history and growth of earthquake engineering in India from the past 50 years, the book addresses the present status of earthquake engineering in regards to the seismic resistant designs of bridges, buildings, railways, and other infrastructures. Specific topics include response spectrum superposition methods, design philosophy, system identification approaches, retaining walls, and shallow foundations. Readers will learn about developments in earthquake engineering over the past 50 years, and how new methods and technologies can be applied towards seismic risk and hazard identification and mitigation.

Big Data in Engineering Applications

Authors: Roy, S.S., Samui, P., Deo, R., Ntalampiras, S. (Eds.)

Year: 2018

Publisher: Springer Singapore

ISBN: 978-981-10-8475-1

Content: This book presents the current trends, technologies, and challenges in Big Data in the diversified field of engineering and sciences. It covers the applications of Big Data ranging from conventional fields of mechanical engineering, civil engineering to electronics, electrical, and computer science to areas in pharmaceutical and biological sciences. This book consists of contributions from various authors from all sectors of academia and industries, demonstrating the imperative application of Big Data for the decision-making process in sectors where the volume, variety, and velocity of information keep increasing. The book is a useful reference for graduate students, researchers and scientists interested in exploring the potential of Big Data in the application of engineering areas.

Communicating Climate Change Information for Decision-Making

Authors: Serrao-Neumann, Silvia, Coudrain, Anne, Coulter, Liese (Eds.)

Year: 2018

Publisher: Springer International Publishing

ISBN: 978-3-319-74668-5

Content: This book provides important insight on a range of issues focused on three themes; what new climate change information is being developed, how that knowledge is communicated and how it can be usefully applied across international, regional and local scales. There is increasing international investment and interest to develop and communicate updated climate change information to promote effective action. As change accelerates and planetary boundaries are crossed this information becomes particularly relevant to guide decisions and support both proactive adaptation and mitigation strategies. Developing new information addresses innovations in producing interdisciplinary climate change knowledge and overcoming issues of data quality, access and availability. This book examines effective information systems to guide decision-making for immediate and future action. Cases studies in developed and developing countries illustrate how climate change information promotes immediate and future actions across a range of sectors.

Disasters Without Borders: The International Politics of Natural Disasters

Authors: John Hannigan

Year: 2018

Publisher: Wiley

ISBN: 978-0-745-66311-1

Content: Dramatic scenes of devastation and suffering caused by disasters such as the 2011 Japanese earthquake and tsunami, are viewed with shock and horror by millions of us across the world. What we rarely see, however, are the international politics of disaster aid, mitigation and prevention that condition the collective response to natural catastrophes around the world. In this book, respected Canadian environmental sociologist John Hannigan argues that the global community of nations has failed time and again in establishing an effective and binding multilateral mechanism for coping with disasters, especially in the more vulnerable countries of the South. Written in an accessible and even-handed manner, *Disasters without Borders* it is the first comprehensive account of the key milestones, debates, controversies and research relating to the international politics of natural disasters. Tracing the historical evolution of this policy field from its humanitarian origins in WWI right up to current efforts to cast climate change as the prime global driver of disaster risk, it highlights the ongoing mismatch between the way disaster has been conceptualised and the institutional architecture in place to manage it. The book's bold conclusion predicts the confluence of four emerging trends - politicisation/militarisation, catastrophic scenario building, privatisation of risk, and quantification, which could create a new system of disaster management wherein 'insurance logic' will replace humanitarian concern as the guiding principle. *Disasters Without Borders* is an ideal introductory text for students, lecturers and practitioners in the fields of international development studies, disaster management, politics and international affairs, and environmental geography/sociology.

The Asian Tsunami and Post-Disaster Aid

Authors: Sunita Reddy

Year: 2018

Publisher: Springer

ISBN: 978-9811301810

Content: Through the lens of the Asian tsunami, this book problematizes concepts that are normally taken for granted in disaster discourse, including relief, recovery, reconstruction and rehabilitation. The unprecedented flow of humanitarian aid after the Asian tsunami, though well-intentioned, showed adverse effects and unintended consequences in the lives of people in the communities across nations. Aid led not only to widespread relief and recovery but also to an exacerbation of old forms of inequities and the creation of new ones arising from the prioritization, distribution and management of aid. This, in turn, led to the incongruity between the needs and expectations of the affected and the agendas of aid agencies and their various intermediaries. This book examines the long-term consequences of post-disaster aid by posing the following questions: What has the aid been expended on? Where has the aid primarily been expended, and how? And what were the unintended consequences of post-disaster aid for the communities? This topical volume is of interest to social scientists, human rights and law researchers and environmental scientists interested in disaster studies.

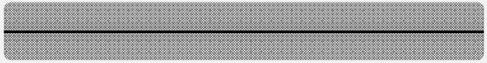
Disaster Risk Reduction: Community Resilience and Responses

Authors: Bupinder Zutshi, Akbaruddin Ahmad, Ananda Babu Srungarapati Year: 2018

Publisher: Palgrave Macmillan

ISBN: 978-9811088445

Content: This book discusses the interconnected, complex and emerging risks in today's societies and deliberates on the various aspects of disaster risk reduction strategies especially through community resilience and responses. It consists of selected papers presented at the World Congress on Disaster Management, which focused on community resilience and responses towards disaster risk reduction based on South Asian experiences, and closely examines the coordinated research activities involving all stakeholders, especially the communities at risk. Further, it narrates the experiences of disaster risk-reduction in different communities that have policy implications for mitigation of future disaster risks in the societies affected by these types of disasters. Written from the social science perspective to disasters rather than an engineering approach, the book helps development and governance institutions to prioritize disasters as a problem of development rather than being parallel to it.



Implementing Climate Change Adaptation in Cities and Communities: Integrating Strategies and Educational Approaches

Authors: Walter Leal Filho, Kathryn Adamson, Rachel M Dunk

Year: 2018

Publisher: Springer

ISBN: 978-3319803821

Content: This book analyzes how climate change adaptation can be implemented at the community, regional and national level. Featuring a variety of case studies, it illustrates strategies, initiatives and projects currently being implemented across the world. In addition to the challenges faced by communities, cities and regions seeking to cope with climate change phenomena like floods, droughts and other extreme events, the respective chapters cover topics such as the adaptive capacities of water management organizations, biodiversity conservation, and indigenous and climate change adaptation strategies. The book will appeal to a broad readership, from scholars to policymakers, interested in developing strategies for effectively addressing the impacts of climate change.

Loss and Damage from Climate Change: Concepts, Methods and Policy Options

Authors: Mechler R. et al.

Year: 2018

Publisher: Springer

ISBN: 978-3319720258

Content: This book provides an authoritative insight on the Loss and Damage discourse by highlighting state-of-the-art research and policy linked to this discourse and articulating its multiple concepts, principles and methods. Written by leading researchers and practitioners, it identifies practical and evidence-based policy options to inform the discourse and climate negotiations. With climate-related risks on the rise and impacts being felt around the globe has come the recognition that climate mitigation and adaptation may not be enough to manage the effects from anthropogenic climate change. This recognition led to the creation of the Warsaw International Mechanism on Loss and Damage in 2013, a climate policy mechanism dedicated to dealing with climate-related effects in highly vulnerable countries that face severe constraints and limits to adaptation. Endorsed in 2015 by the Paris Agreement and effectively considered a third pillar of international climate policy, debate and research on Loss and Damage continues to gain enormous traction. Yet, concepts, methods and tools as well as directions for policy and implementation have remained contested and vague. Suitable for researchers, policy-advisors, practitioners and the interested public, the book furthermore: discusses the political, legal, economic and institutional dimensions of the issue, highlights normative questions central to the discourse, provides a focus on climate risks and climate risk management, presents salient case studies from around the world.

Economic Consequence Analysis of Disasters: The E-CAT Software Tool

Authors: Rose, A., Prager, F., Chen, Z., Chatterjee, S., Wei, D., Heatwole, N., Warren, E.

Year: 2017

Publisher: Springer Singapore

ISBN: 978-981-10-2566-2

Content: This study develops a methodology for rapidly obtaining approximate estimates of the economic consequences from numerous natural, man-made and technological threats. This software tool is intended for use by various decision makers and analysts to obtain estimates rapidly. It is programmed in Excel and Visual Basic for Applications (VBA) to facilitate its use. This tool is called E-CAT (Economic Consequence Analysis Tool) and accounts for the cumulative direct and indirect impacts (including resilience and behavioral factors that significantly affect base estimates) on the U.S. economy. E-CAT is intended to be a major step toward advancing the current state of economic consequence analysis (ECA) and also contributing to and developing interest in further research into complex but rapid turnaround approaches. The essence of the methodology involves running numerous simulations in a computable general equilibrium (CGE) model for each threat, yielding synthetic data for the estimation of a single regression equation based on the identification of key explanatory variables (threat characteristics and background conditions). This transforms the results of a complex model, which is beyond the reach of most users, into a "reduced form" model that is readily comprehensible. Functionality has been built into E-CAT so that its users can switch various consequence categories on and off in order to create customized profiles of economic consequences of numerous risk events. E-CAT incorporates uncertainty on both the input and output side in the course of the analysis.

Defining and Measuring Economic Resilience from a Societal, Environmental and Security Perspective

Authors: Rose, Adam

Year: 2017

Publisher: Springer Singapore

ISBN: 978-981-10-1532-8

Content: This volume presents an economic framework for the analysis of resilience in relation to societal, environmental, and personal security perspectives. It offers a rigorous definition of economic resilience and an operational metric, and it shows how they can be applied to measuring and applying the concept to private and public decision making. Major dimensions of resilience and their implications for human development are explored. Resilience is emphasized as a coping mechanism for dealing with short-term crises, such as natural disasters and acts of terrorism. As well, the author shows how lessons learned in the short-run out of necessity and through the application of human ingenuity can be incorporated into long-run sustainability practices. In part, this opportunity stems from viewing resilience as a process, one that enhances

individual and societal competencies. The book links economic resilience to several other disciplines and examines the relationship between resilience and various other key concepts such as vulnerability, adaptation, and sustainability. It scrutinizes the measurement of economic resilience in terms of temporal, spatial, and scale dimensions. It examines the time-path of resilience and relates it to the recovery process. This work also looks closely at progress on the formulation of resilience indices and stresses the importance of actionable variables. It presents a risk-management framework, including aspects of cost-effectiveness and cost-benefit analysis. Additionally, it explores the role of resilience in relation to the co-benefits of disaster risk management.

Risk Modeling for Hazards and Disasters

Authors: Gero Michel (Editor)

Year: 2017

Publisher: Elsevier

ISBN: 0128040718

Content: Risk Modeling for Hazards and Disasters covers all major aspects of catastrophe risk modeling, from hazards through to financial analysis. It explores relevant new science in risk modeling, indirect losses, assessment of impact and consequences to insurance losses, and current changes in risk modeling practice, along with case studies. It also provides further insight into the shortcomings of current models and examines model risk and ideas to diversify risk assessment. Risk Modeling for Hazards and Disasters instructs readers on how to assess, price and then hedge the losses from natural and manmade catastrophes. This book reviews current model development and science and explains recent changes in the catastrophe modeling space, including new initiatives covering uncertainty and big data in the assessment of risk for insurance pricing and portfolio management. Edited by a leading expert in both hazards and risk, this book is authored by a global panel including major modeling vendors, modeling consulting firms, and well-known catastrophe modeling scientists. Risk Modeling for Hazards and Disasters provides important insight into how models are used to price and manage risk. Includes high profile case studies such as the Newcastle earthquake, Hurricane Andrew and Hurricane Katrina. Provides crucial information on new ideas and platforms that will help address the new demands for risk management and catastrophe risk reporting. Presents the theory and practice needed to know how models are created and what is and what is not important in the modeling process. Covers relevant new science in risk modeling, indirect losses, assessment of impact and consequences to insurance losses, and current changes in risk modeling practice, along with case studies

Natural Catastrophe Risk Management and Modelling: A Practitioner's Guide

Authors: Kirsten Mitchell-Wallace (Author), Matthew Jones (Author), John Hillier (Author), Matthew Foote (Author)

Year: 2017

Publisher: Wiley-Blackwell

ISBN: 1118906047

Content: This book covers both the practical and theoretical aspects of catastrophe modelling for insurance industry practitioners and public policymakers. Written by authors with both academic and industry experience it also functions as an excellent graduate-level text and overview of the field. Ours is a time of unprecedented levels of risk from both natural and anthropogenic sources. Fortunately, it is also an era of relatively inexpensive technologies for use in assessing those risks. The demand from both commercial and public interests—including (re)insurers, NGOs, global disaster management agencies, and local authorities—for sophisticated catastrophe risk assessment tools has never been greater, and contemporary catastrophe modelling satisfies that demand. Combining the latest research with detailed coverage of state-of-the-art catastrophe modelling techniques and technologies, this book delivers the knowledge needed to use, interpret, and build catastrophe models, and provides greater insight into catastrophe modelling's enormous potential and possible limitations. The first book containing the detailed, practical knowledge needed to support practitioners as effective catastrophe risk modellers and managers. Includes hazard, vulnerability and financial material to provide the only independent, comprehensive overview of the subject, accessible to students and practitioners alike. Demonstrates the relevance of catastrophe models within a practical, decision-making framework and illustrates their many applications. Includes contributions from many of the top names in the field, globally, from industry, academia, and government. Natural Catastrophe Risk Management and Modelling: A Practitioner's Guide is an important working resource for catastrophe modelling analysts and developers, actuaries, underwriters, and those working in compliance or regulatory functions related to catastrophe risk. It is also valuable for scientists and engineers seeking to gain greater insight into catastrophe risk management and its applications.

Natural Hazards: Earth's Processes as Hazards, Disasters, and Catastrophes

Authors: Edward A. Keller (Author), Duane E. DeVecchio (Author) Year: 2017

Publisher: Routledge

ISBN: 1138090867

Content: Natural Hazards: Earth Processes as Hazards, Disasters and Catastrophes, Fourth Edition, is an introductory-level survey intended for university and college courses that are concerned with earth processes that have direct, and often sudden and violent, impacts on human society. The text integrates principles of geology, hydrology, meteorology, climatology, oceanography, soil science, ecology and solar system astronomy. The book is designed for a course in natural hazards for non-science majors, and a primary

goal of the text is to assist instructors in guiding students who may have little background in science to understand physical earth processes as natural hazards and their consequences to society. Natural Hazards uses historical to recent examples of hazards and disasters to explore how and why they happen and what we can do to limit their effects. The text's up-to-date coverage of recent disasters brings a fresh perspective to the material. The Fourth Edition continues our new active learning approach that includes reinforcement of learning objective with a fully updated visual program and pedagogical tools that highlight fundamental concepts of the text. This program will provide an interactive and engaging learning experience for your students. Here's how: Provide a balanced approach to the study of natural hazards: Focus on the basic earth science of hazards as well as roles of human processes and effects on our planet in a broader, more balanced approach to the study of natural hazards. Enhance understanding and comprehension of natural hazards: Newly revised stories and case studies give students a behind the scenes glimpse into how hazards are evaluated from a scientific and human perspective; the stories of real people who survive natural hazards, and the lives and research of professionals who have contributed significantly to the research of hazardous events. Strong pedagogical tools reinforce the text's core features: Chapter structure and design organizes the material into three major sections to help students learn, digest, and review learning objectives.

Natech Risk Assessment and Management , 1st Edition, Reducing the Risk of Natural-Hazard Impact on Hazardous Installations

Authors: Elisabeth Krausmann, Ana Cruz, Ernesto Salzano

ISBN: 9780128038079

eBook ISBN: 9780128038796

Imprint: Elsevier

Content: In March 2011 the whole world watched in shock when a tsunami slammed into a nuclear power plant, causing a nuclear meltdown and raising the spectre of nuclear contamination. Raging fires and explosions at oil refineries in the wake of the massive earthquake that triggered the tsunami also made the global headlines. These events clearly demonstrate the potential for natural hazards to trigger fires, explosions, and toxic or radioactive releases from industrial activities that process, store or transport hazardous materials. These technological “secondary effects” caused by natural hazards are also called “Natech” accidents. Elsevier has recently published the book “Natech risk assessment and management – Reducing the risk of natural-hazard impact on hazardous installations” which was co-authored by the European Commission’s Joint Research Centre, Kyoto University and Bologna University, with a number of chapter contributions by other institutions. It covers the entire spectrum of issues pertinent to Natech risk assessment and management, and teaches engineers, safety managers and decision makers how to safeguard hazardous installations and pipelines against the impact of natural disasters. After a thorough introduction of the topic, the book discusses various examples of

national and international frameworks for major accident prevention and preparedness and provides a detailed view of the implementation of Natech risk management in the EU and OECD. The book also includes a dedicated chapter on natural-hazard characterization and measurement from an engineering perspective, as well as a discussion of selected Natech accidents, including recent ones, and specific lessons learned from each. An important part of the book is dedicated to Natech risk assessment and it provides an analysis of all essential elements of the assessment process, as well as a presentation of available support tools. The final section of the book addresses the reduction of Natech risk, including structural and organizational prevention and mitigation measures, as well as early warning issues and emergency planning. The book is available directly from Elsevier or other major book sellers: <http://store.elsevier.com/Natech-Risk-Assessment-and-Management/Elisabeth-Krausmann/isbn-9780128038079/>

The Economics of the Global Environment: Catastrophic Risks in Theory and Policy

Authors: Graciela Chichilnisky (Editor), Armon Rezai (Editor)

Year: 2017

Publisher: Springer

ISBN: 978-3319319414

Content: This is the first book combining research on the Global Environment, Catastrophic Risks and Economic Theory and Policy. Modern economic theory originated in the middle of the twentieth century when industrial expansion coupled with population growth led to a voracious use of natural resources and global environmental concerns. It is uncontested that, for the first time in recorded history, humans dominate the planet, changing the planet's atmosphere, its bodies of water, and the complex web of species that makes life on earth. This radical change in circumstances led to rethinking of the foundations of human organization and, in particular, the industrial economy and the economic theory behind it. This book brings together new approaches on multiple levels: environmental sustainability requires rethinking in terms of economic theory and policy as well as the considerations of catastrophic risk and extremal events. Leading experts address questions of economic governance, risk management, policy decision making and distribution across time and space.

Already listed new books in previous newsletters with publication date between 2015 and 2017:

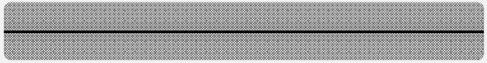
Climate Hazard Crises in Asian Societies and Environments

Authors: Troy Sternberg

Year: 2017

Publisher: Routledge

ISBN: 978-92-9257-475-8



Rebuilding Fukushima

Authors: Mitsuo Yamakawa (Editor), Daisaku Yamamoto (Editor)

Year: 2017

Publisher: Routledge

ISBN: 978-1138193796

Climate Change and Natural Disasters: Transforming Economies and Policies for a Sustainable Future

Authors: Vinod Thomas (Author)

Year: 2017

Publisher: Transaction Publishers

ISBN: 978-1412864404

Flood Risk Management and Response

Authors: D. Proverbs (Author, Editor), C. A. Brebbia (Editor)

Year: 2016

Publisher: WIT Press / Computational Mechanics

ISBN: 978-1784662417

Natural Disaster Risk Management: Geosciences and Social Responsibility

Authors: Ulrich Ranke (Author)

Year: 2016

Publisher: Springer

ISBN: 978-1784662417

Reducing Disaster Risk by Managing Urban Land Use: Guidance Notes for Planners

Authors:

Year: 2016

Publisher: Asian Development Bank

ISBN: 978-92-9257-475-8

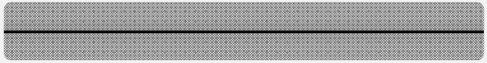
Huge levels of aid are spent on reconstructing housing after disasters. Have these houses Still Standing?: Looking Back at Reconstruction and Disaster Risk Reduction in Housing

Authors: Theo Schilderman (Editor), Eleanor Parker (Editor)

Year: 2016

Publisher: Practical Action

ISBN: 185339839X



Ecosystem-Based Disaster Risk Reduction and Adaptation in Practice

Authors: Fabrice G. Renaud (Editor), Karen Sudmeier-Rieux (Editor), Marisol Estrella (Editor), Udo Nehren (Editor)

Year: 2016

Publisher: Springer

ISBN: 3319436317

Disasters: Learning the Lessons for a Safer World

Authors: David Eves

Year: 2016

Publisher: Routledge

ISBN: 1138144231

Identifying Emerging Issues in Disaster Risk Reduction, Migration, Climate Change and Sustainable Development: Shaping Debates and Policies

Authors: Karen Sudmeier-Rieux (Editor), Manuela Fernández (Editor), Ivanna Penna (Editor), Michel Jaboyedoff (Editor), JC Gaillard (Editor)

Year: 2016

Publisher: Springer

ISBN: 3319338781

Urban Resilience: A Transformative Approach

Authors: Yoshiki Yamagata (Editor), Hiroshi Maruyama (Editor)

Year: 2016

Publisher: Springer

ISBN: 3319398105

Climate Change Adaptation, Resilience and Hazards

Authors: Walter Leal Filho (Editor), Haruna Musa (Editor), Gina Cavan (Editor), Paul O'Hare (Editor), Julia Seixas (Editor)

Year: 2016

Publisher: Springer

ISBN: 3319398792

Disaster Risk Reduction and the Global System: Ruminations on a Way Forward

Authors: Michael Gordy (Author)

Year: 2016

Publisher: Springer

ISBN: 3319416669

Natural Disasters in China

Authors: Peijun Shi (Editor)

Year: 2016

Publisher: Springer

ISBN: 3662502682

Disaster Risk Reduction: Cases from Urban Africa

Authors: Mark Pelling and Ben Wisner

Year: 2016

Publisher: Routledge

ISBN: 1138002054

Mathematics Geostatistical and Geospatial Approaches for the Characterization of Natural Resources in the Environment: Challenges, Processes and Strategies

Authors: N. Janardhana Raju (Editor)

Year: 2016

Publisher: Springer

ISBN: 3319186620

National Flood Insurance: Management and Accountability in the Wake of Superstorm Sandy

Authors: Brenda Murphy (Editor)

Year: 2016

Publisher: Nova Science Pub Inc

ISBN: 1634843797

Content: -

Estimating Fatality Rates for Earthquake Loss Models

Authors: Emily So (Author)

Year: 2016

Publisher: Springer

ISBN: 3319268376

Resilience by Design

Authors: Alexandra Jayeun Lee (Author)

Year: 2016

Publisher: Springer

ISBN: 3319306391

Disaster Resilience After Hurricane Sandy: Enhancement Efforts, Use of Funds, and National Mitigation Framework

Authors: Johnathan Carr (Editor)

Year: 2016

Publisher: Nova Science Pub Inc

ISBN: 1634846451

Content: -

Implementing Climate Change Adaptation in Cities and Communities: Integrating Strategies and Educational Approaches

Authors: Walter Leal Filho (Editor), Kathryn Adamson (Editor), Rachel Dunk (Editor), Ulisses M. Azeiteiro (Editor), Sam Illingworth (Editor), Fatima Alves (Editor)

Year: 2016

Publisher: Springer

ISBN: 3319285890

Extreme Weather, Health, and Communities: Interdisciplinary Engagement Strategies

Authors: Sheila Lakshmi Steinberg (Editor), William Sprigg (Editor)

Year: 2016

Publisher: Springer

ISBN: 3319306243

Disaster Resilience of Education Systems: Experiences from Japan

Authors: Koichi Shiwaku (Editor), Aiko Sakurai (Editor), Rajib Shaw (Editor)

Year: 2016

Publisher: Springer

ISBN: 4431559809

The Handbook of Disaster and Emergency Policies and Institutions

Authors: John Handmer (Author), Stephen Dovers (Author)

Year: 2016

Publisher: Routledge

ISBN: 113897188X

Managing Extreme Climate Change Risks through Insurance

Authors: W. J. Wouter Botzen (Editor)

Year: 2016

Publisher: Cambridge University Press

ISBN: 1316600882

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Suarez-Paba, Maria Camila, Mathis Perreur, Felipe Munoz, and Ana Maria Cruz. "Systematic literature review and qualitative meta-analysis of Natech research in the past four decades." *Safety science* 116 (2019): 58-77.

9. Miscellaneous

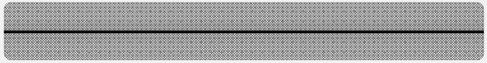
New Graduate Degree Program:

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. The application deadline for the fall semester is 29 April 2016. For more information please visit HCRI's website (<http://www.hcri.manchester.ac.uk/study-with-us/postgraduate-taught/>).

Young Scientists Summer Program

Since 1977, IIASA's annual 3-month Young Scientists Summer Program (YSSP) offers research opportunities to talented young researchers whose interests correspond with IIASA's ongoing research on issues of global environmental, economic and social change. From June through August accepted participants work within the Institute's research programs under the guidance of IIASA scientific staff. Funding is provided through IIASA's National Member Organizations.

The program is designed for PhD students (ideally about 2 years prior to receiving their PhD) working on a field compatible with ongoing research at IIASA and a wish to explore the policy implications of their work. Participants will be working under the direct supervision of an experienced IIASA scientist in a unique interdisciplinary and international research environment. They will produce a paper (serving as first step towards a publishable journal article) and will get the opportunity to build up contacts for future collaboration within IIASA's worldwide network.



How to apply?

Candidates apply via the online application form (find the 'APPLY NOW' banner on the right side during the application period). Applicants can choose 1-2 programs. If there is additional interest in one of our flagship projects this can be indicated in the box provided in the application form (under "please justify your choice of programs here"). We strongly encourage contacting the various program representatives and carefully read through all program descriptions before making your decision.

Applicants from all countries are welcome, although IIASA gives priority to citizens or residents of NMO countries. Participation in the YSSP is only possible for one summer (however, you may apply several times).

Website:

<http://www.iiasa.ac.at/web/home/education/yssp/about.html>

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 in German language)
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/>
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- **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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