The International Symposium on Disaster Management in a Complex World: New focus and approach

– On Celebration of KANREKI of Professor Ana Maria Cruz and Professor Hirokazu Tatano

September 25th (24th– in the Americas), 2021, Online

Booklet contents

PROGRAM

The Zoom meeting room:

https://kyoto-u-edu.zoom.us/j/83600535044?pwd=dy9JdEl4S2Zhcmw4NXJ4b2MyV00zUT09

Meeting ID: 836 0053 5044

Pass code: 635038

Notes

- ✔ All the keynote speeches, panel discussion sessions and the party will take place in the Zoom meeting room.
- ✔ In case of troubles of the above room, please move to the following room:

https://kyoto-u-edu.zoom.us/j/83736261879?pwd=bW5NK3g2N3dLOHhUVWR3YXdmcHpMUT09

Meeting ID: 837 3626 1879

Passcode: 678409

Schedule

JST (UTC + 9)	*EU* (UTC +1)*	*US**(UTC -5)*	*Session Title*
25th, Sept.	25th, Sept.	24th, Sept.	
9:30–10:00	2:30-3:00	19:30-20:00	Check-in
10:00–10:10	3:00-3:10	20:00-20:10	Opening: Greetings from Prof. Ana Maria Cruz and Prof. Hirokazu Tatano
10:10–10:15	3:10-3:15	20:10-20:15	Opening: Concept of the day
10:15–11:25	3:15-4:25	20:15-21:25	Session 1: Keynote speeches
11:25–11:35	4:25-4:35	21:25-21:35	Coffee break
11:35–12:45	4:35-5:45	21:35-22:45	Session 1: Panel discussion
12:45–13:45	5:45-6:45	22:45-23:45	Lunch
13:45–14:55	6:45-7:55	23:45-00:55	Session 2: Keynote speeches
		25th, Sept.	
14:55–15:05	7:55-8:05	00:55-1:05	Coffee break
15:05-16:25	8:05-9:25	1:05-2:25	Session 2: Panel discussion
16:25-16:35	9:25-9:35	2:25-2:35	Coffee break
16:35-18:05	9:35-11:05	2:35-4:05	Session 3: Panel discussion
18:05-18:10	11:05-11:10	4:05-4:10	Closing: Prof. Michinori Hatayama
19:00-21:00	12:00-14:00	5:00-7:00	Party

* European Union time zone

** CDT: United States central time zone (Daylight Saving Time – DST)

SESSION DETAILS

Session 1 "Roles of Economics and Systems Analysis in a Complex World"

JST	*EU*	*US (CDT)*	
Keynote speeches (Chair: Toshio Fujimi)			
25th, 10:15	25th, 3:15	24th, 20:15	Hirokazu Tatano "TBA"
10:50	3:50	20:50	Adam Rose "Economic Consequence Analysis of Disasters: Recent Conceptual and Empirical Advances"
11:25	4:25	21:25	*Coffee break*
Panel discussion (Moderator: Yoshio Kajitani)			
11:35–12:45	4:35-5:45	21:35-22:45	Liping Fang Stephanie Chang Yiming Wei Charles Scawthorn

Session 2 "Emerging Risks and Governance in a Complex World"

JST	*EU*	*US (CDT)*	
Keynote speeches (Chair: Muneta Yokomatsu)			
13:45	6:45	23:45	Ana Maria Cruz "TBA"
14:20	7:20	25th, 00:20	Shinichi Aoki "Natech Risk and Its Management in Osaka Bay Area"
14:55	7:55	00:55	*Coffee break*
Panel discussion (Moderator: Samaddar)			
15:05-16:25	8:05-9:25	1:05-2:25	James Goltz Hamilton Bean Asthildur Bernhardsdottir Mohsen Ashtiany Mamoru Yoshida

Session 3 "Exploring New Areas in a Complex World"

JST	*EU*	*US (CDT)*	
Panel discussion (Moderator: Norio Okada)			
16:35-18:05	9:35-11:05	2:35-4:05	Yoshiyuki Yama Bijaya Nand Misra Aniello Amendola Reinhard Mechler Ortwin Renn Andrew Collins

INTRODUCTION OF THE SESSIONS

Session 1 "Roles of Economics and Systems Analysis in a Complex World"

Keynote speeches

"Economics of Disasters: Concepts, Achievements and Challenges".

Hirokazu Tatano
Disaster Prevention Research Institute, Kyoto University

Disasters are low-frequent and high-impact events for a society. Low-frequency brings about difficulty of learning from own experiences. This feature causes perception bias of disaster risk, where the systematic differences of perceived risk and observed one. High-impact to a society means the high correlation of losses in space and time. This involves with various types of externalities, such as negative spillover effects, through supply chain disruption, especially in car industries, observed after 2011 great East Japan Earthquake and Tsunami. Cascading impacts, which includes what we call systemic risks, primal impact of a disaster occurred in a specific sector may affects other sectors. The sectors affected by the changes of production in the directory affected sectors may affect the others, and so on. Cascading impacts often involves changes of long-term dynamic decisions of directly or indirectly affected firms. This caused structural changes of economy.

Although the understanding of the phenomena is improved by theoretical analysis, the evidence to support what mechanisms are dominating to explain the observed phenomena after disasters. This calls for the importance of empirical studies. I would like to emphasize the importance of empirical studied to deepen our understanding Economics of Disasters.

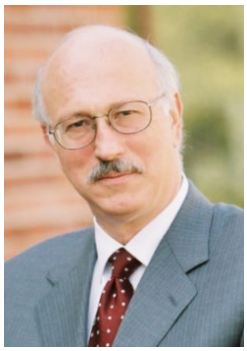
Hirokazu Tatano is a professor at Disaster Prevention Research Institute, Kyoto University, Japan. From September 2010, he is serving a role of Vice President of International Society of Integrated Disaster Risk Management (IDRiM Society). He is also serving a secretary-general of Global Alliance of Disaster Research Institutes (GADRI) from 2015. He received his M.Sc. and Ph.D. in civil engineering from Kyoto University. Much of Dr. Tatano's research is on the economics of natural hazards. He also served as a leader of Disaster Risk Management Research Field, GCOE Program on Human Security Engineering for Asian Megacities (2005-2010). After 2011 Tohoku-Oki Earthquake and Tsunami (2011 Great East Japan Earthquake), he was appointed as a co-leader of a committee on integrated assessment and design of countermeasures for Tsunami

disasters from Japan Association of Civil Engineers (JSCE). He is leading a research group in climate change adaptation strategies in the "TOHGO" program of MEXT. Dr. Tatano has done pioneering research on economic consequence analysis and his major focus has been on economic resilience to natural disasters at the levels of the individual business, market, and regional economy. Another his research focus is methodologies for integrated disaster risk management and governance. Through these academic activities, he wish to contribute establishing "implementation science" as a key area of science for disaster risk reduction.

"Economic Consequence Analysis of Disasters: Recent Conceptual and Empirical Advances"

Adam Rose
Sol Price School of Public Policy, University of Southern California

This presentation will summarize recent advances in economic consequence analysis of natural and man-mate disasters in relation to resilience and behavioral responses. These include conceptual advances in the foundations of static and dynamic economic resilience in terms of theoretical underpinnings of resilience metrics and recovery strategies. The presentation will also include the results of recent surveys of disaster responses to hurricanes, which indicate that various resilience tactics have been cost-effective. In addition, the results of a recent survey of avoidance behavior in relation to COVID-19 will be presented, as will their effects on the bottom-line impacts the pandemic. The presentation will also summarize some of the contributions made to the field of economic consequence analysis by Professor Hiro Tatano.



Adam Rose is a Research Professor in the University of Southern California Sol Price School of Public Policy, Senior Research Fellow and Director Emeritus of USC's Center for Risk and Economic Analysis of Threats and Emergencies (CREATE), and Research Fellow of the USC Schwarzenegger Institute of State and Global Policy. Professor Rose's primary research interest is the economics of natural disasters and terrorism. He has spearheaded the development of CREATE's comprehensive economic consequence analysis framework and has done pioneering theoretical and empirical research on resilience at the level of the individual business/household, market/industry and regional/national economy. He has also completed dozens of case studies of disaster consequences, resilience and recovery, including the September 11 terrorist attacks, Great Shakeout Earthquake Scenario, Fukushima Nuclear Accident, and Covid-19 Pandemic. He is the author of several books and 250 professional papers. He has received several honors and awards for his research including, the International Society for Integrated Disaster Risk Management (IDRiM) Outstanding Research Award, American Planning Association Program Planning Honor Award, Regional Economic Models Excellence in

Economic Analysis Award, and Applied Technology Council Award for Outstanding Achievement. He is also an elected Fellow of the Regional Science Association International and former President of the IDRiM Society.

Chair of the keynote speeches

Toshio Fujimi got Ph.D. from Kyoto University in 2004. He worked in Kumamoto University from 2006 to 2021.

Since April in 2021, he has been working as associate professor in Disaster Prevention Research Institutes in Kyoto University.

His research topic is to design and evaluate disaster mitigation measures with behavioral economics and decision theories under uncertainty.

Panel discussion

Moderator

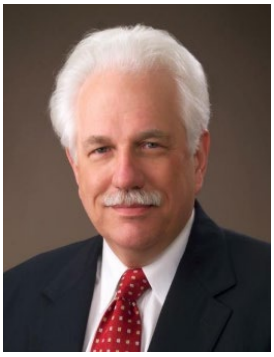
Yoshio Kajitani is a professor in Kagawa University, Japan. He received his Ph.D. in Civil Engineering from Kyoto University in 2004. His thesis was entitled Spatial-Temporal Exposure Assessment and Loss Estimation During Disasters. Previously, Dr. Kajitani had received a bachelor's degree in civil engineering from Kyoto University in 1997 (supervised by Professor Norio Okada) and a master's degree in statistics from the University of Western Ontario (now Western University; supervised by Professor Ian McLeod) in 1999. His studies have focused on disaster risk management, especially on the socioeconomic impacts of natural disasters. His academic interests include the optimally combined approaches of statistics, economics and transportation, and utility engineering to the field of disaster prevention, reduction, and recovery. He received the Sir Richard Stone Prize from the International Input–Output Association with Professor Tatano in 2020.

Panelists

Liping Fang is a Professor of Mechanical and Industrial Engineering; Associate Dean, Undergraduate Programs and Student Affairs, Faculty of Engineering and Architectural Science (2012–2017 and 2018–present); former Acting Dean, Faculty of Engineering and Architectural Science (August 2019 to January 2020), and former Chair of the Department of Mechanical and Industrial Engineering (2004–2012) at Ryerson University, Toronto, Canada. He is Fellow of the Canadian Academy of Engineering (FCAE), Institute of Electrical and Electronics Engineers (FIEEE), and Engineering Institute of Canada (FEIC). He visited the Disaster Prevention Research Institute (DPRI), Kyoto University, as an MONBUKAGAKUSHO Kyoto University Visiting Professor from August to November 2008 and from July to December 2017, respectively. He has published widely, including three books, seven edited books, and numerous journal and conference papers. His research interests include systems engineering, risk management, water resources management, and decision making, particularly in interactive decision making, multiple-criteria decision making, and decision support systems. He received a number of awards, including the 2020 Group Decision and Negotiation Section Award within the Institute for Operations Research and the Management Sciences (INFORMS) and 2012 ENRE Best Publication Award in Environment and Sustainability from the Section on Energy, Natural Resources, and the Environment (ENRE), INFORMS.

Stephanie Chang is a professor at the University of British Columbia, Canada, with the School of Community and Regional Planning (SCARP) and the Institute for Resources, Environment, and Sustainability (IRES). She held a Canada Research Chair in Disaster Management and Urban Sustainability (Tier 2) from 2004 to 2013. Dr. Chang has published extensively on the socio-economic impact of natural disasters, modeling disaster losses, urban risk dynamics, critical infrastructure systems and interdependencies, economic evaluation of disaster mitigations, and disaster recovery. Much of her research involves interdisciplinary collaboration. Dr. Chang's current research focuses on planning for multi-hazard risks faced by coastal communities, with projects variously addressing marine oil spills, maritime transportation disruption, earthquakes, coastal flooding, and climate adaptation. She received the 2001 Shah Family Innovation Prize from the Earthquake Engineering Research Institute (EERI), was EERI's 2011 Distinguished Lecturer, and was awarded the 2018 Distinguished Research Award by the Integrated Disaster Risk Management (IDRiM) Society. She has served on the U.S. National Research Council's Committee on Disaster Research in the Social Sciences and its Committee on Earthquake Resilience – Research, Implementation, and Outreach, and is on the Council of Canadian Academies' Expert Panel on Disaster Resilience in a Changing Climate.

Yi-Ming Wei a distinguished professor of Energy and Environmental Economics, Beijing Institute of Technology, he is appointed as the vice president of Beijing Institute of Technology in 2019. He has more than 25 years of experience in the energy industry, including in academia, research, consulting. Previously, Dr. Yi-Ming Wei joined the Institute of Policy and Management, Chinese Academy of Sciences (CAS) from the State Key Laboratory of Resources and Environment Information System of China, he was appointed as the Deputy Director-General of the CAS institute of Policy and Management from October 2000 to November 2008. He was the founding director of IPM-CAS and RIET-CNPC Joint Center for Energy and Environmental Policy Research. His recent research and teaching focus on Energy Policy and Energy Economics, CO2 emission and Climate Policy, Energy and Climate Policy Modeling. He has performed over 40 research projects for various China governmental agencies including NDRC, MOST, NEA, NSFC, CNPC, SGCC and CAS, and such international organizations as the World Bank, EU-FP7. He published 20 books and over 300 papers in peer review Journals including Nature-Climate Change, Nature-Energy, Nature-Communications, Nature-Sustainability, Climatic Change. Prof. Wei has been awarded by the Prize of Science and Technology for Young Scholars (2001), Honor of Excellent Teacher of Beijing Municipality (2013) National High Level Leading Talents Special Support Plan (2017).He is the President of The Chinese Society of Energy Economics and Management of OOPEM. Currently, Prof. Wei is the Co-editor-in-chief of Energy and Climate Change, Associate editor of Applied Energy, Associate editor of Energy Strategy Reviews, and editorial board member of several other journals. He is a Coordinate Lead Author (CLA) of the IPCC Sixth Assessment Report (AR6).



Charles Scawthorn is internationally recognized as an authority for the analysis and mitigation of natural and technological hazards. He retired in 2008 as Professor and head of the Earthquake Disaster Prevention Systems Laboratory, Kyoto University (Japan), has been Visiting Professor at Stanford, Beijing Normal and Waseda (Tokyo) Universities and is now Visiting Researcher, Univ. California at Berkeley. He teaches a course on Disaster Risk Assessment, Mitigation and Financing at the World Bank, has taught a weeklong seminar on California earthquake risk for the London Market Association and is a member of the Multihazard Mitigation Council. As President of SPA Risk LLC, he consults to the global insurance industry, the World Bank, local/state/federal agencies and Global 1000 corporations. Dr. Scawthorn is a graduate of the Cooper Union, holds an M.S.C.E. degree from Lehigh University and received his D.Eng. from Kyoto University.

Session 2 "Emerging Risks and Governance in a Complex World"

Keynote speeches

"Reflections on Natech Risk Management: The need for a Paradigm Shift in order to Address Future Challenges"

Ana Maria Cruz
Disaster Prevention Research Institute, Kyoto University

Natural hazard-triggered chemical accidents are known as Natechs. This presentation will reflect back on Natech research and practices since the first studies were published in the 1970's and will look at today's challenges as we look to the future. The number of Natechs accidents have shown an increasing trend, particularly tropical storm related Natech events. It is not surprising that Natech research has gradually shifted focus from earthquake hazard-related to hydrometeorological hazard-related studies as well as and multi-hazards. Overall, contributions to Natech research have focused on risk assessment and risk management, but more efforts are needed risk reduction, disaster prevention and preparedness, risk communication and risk governance. Due to its complexity, and the interdependence of industrial systems with socio-economic systems, effective Natech risk reduction will require a paradigm shift, from risk assessment and management of individual facilities to the management and governance of Natech risk in a territory.

Ana Maria Cruz is a Professor at the Disaster Prevention Research Institute of Kyoto University in Japan. She received a Chemical Engineering degree in 1987 and worked in industry for over 10 years before pursuing graduate studies. She obtained a MSc. in Applied Development in 1999 and a Ph.D. in Environmental Engineering with a focus on Hazards Research from Tulane University in 2003. She has worked in the private and public sectors, in academia and with government at the local and international levels in four continents. She has pioneered research concerning natural hazard triggered technological accidents (known as Natechs) since 1998. Her research interests include disaster risk management of flood, storm, earthquake, tsunami and climate change – induced impacts on industry, related infrastructure systems, as well as potentially affected communities; Natech accident investigation and consequence analysis; Natech risk governance and risk communication; and Natech evacuation planning through community participatory approaches.

She has over 65 peer-reviewed publications including international journal articles, a co-authored book and several book chapters. She serves as Editor In-Chief for the Journal of the International

Society for Integrated Disaster Risk Management (IDRiM Journal), and Editor of the Journal of Loss Prevention in the Process Industries (Elsevier). She is the President of the International Society for Integrated Disaster Risk Management (IDRiM Society), and a member of several international committees for disaster risk management and Natech risk reduction.

"Natech Risk and Its Management in Osaka Bay Area"

Shin-ichi Aoki
Osaka University

As natural hazards become larger and larger, the disaster risk in the Osaka Bay area has been increasing. The risk of Natech is particularly high in the vicinity of oil complexes located outside the embankment. The disaster preparedness in Japan is inadequate for Natech, and there are problems particularly in risk communication among various stakeholders. In this presentation, I will introduce our research on Natech risk and its management in Osaka Bay area, which I have been working on with Prof. Cruz and her students. Also, I would like to share some of the new stimulation I received from Dr. Cruz over the past few years.

Shin-ichi Aoki received his Bachelor, Master and Doctor degrees from Osaka University, Japan, in the field of Civil Engineering. He started his career at Osaka University as a research associate in 1983. He stayed at the University of British Columbia, Canada, from 1991 to 1992 as a postdoctoral research fellow. He moved to Toyohashi University of Technology as an associate professor in 1993 and promoted to full professor in 2003. He moved back to Osaka University in 2012. His academic activities are mainly with the Japan Society of Civil Engineers (JSCE), where he served as Director and Chair of the Coastal Engineering Committee from 2015 to 2016. His research field is coastal engineering, including coastal disaster prevention, coastal geomorphology, and coastal environment.

Chair for keynote speech

Muneta Yokomatsu received his Bachelor, Masters, and Ph.D. degrees from Kyoto University, Japan, in 1997, 1999 and 2003 respectively. He started his career at Tottori University as a research associate in 2001. He moved to Disaster Prevention Research Institute, Kyoto University as an associate professor in 2005. He stayed in University of Minnesota, USA, in 2008 as a visiting researcher. Moreover, he once had adjunct researcher positions in University of Tokyo and, currently, in Waseda University, and Center for Spatial Information Science, University of Tokyo. Since March, 2018, he has been a guest research scholar at International Institute for

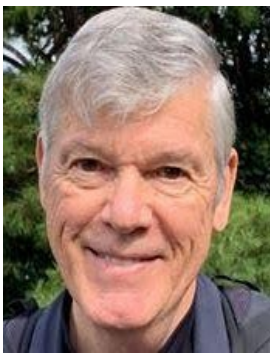
Applied Systems Analysis (IIASA). His research fields are economic analysis of disaster risk management, where he has developed the methods of cost-benefit analysis of disaster prevention and infrastructure provision, and social network analysis, where he has worked on dynamics of network formation of people in local a community. He is now intensively working on simulation models of macroeconomic dynamics under disaster risk and mitigation investment.

Panel discussion

Moderator

Subhajyoti Samaddar is an Associate Professor in Disaster Prevention Research Institute (DPRI), Kyoto University, Japan. His fundamental research interest is on the implementation planning for DRR including the role of social networks in diffusing and implementing DRR innovations, and individual's cognitive reasoning process and social cues for their participation decision in community based DRR. He conducted in-depth, long empirical studies under in different disaster-prone countries in Asia (Bangladesh, Japan, India) and Africa (Ghana). He used qualitative research methods for the empirical investigation. His works have received international recognition, including "International Award Hazards 2000" in 2016 and "Aniello Amendola IDRiM Award 2020". He is an Associate Editor of the IDRiM International Journal and guest editor in other international journals. He is a secretariat member of GADRI (Global Alliance of Disaster Research Institutes). Dr. Samaddar has been actively engaged in teaching UG/PG courses on DRR, risk communication, and community planning.

Panelists



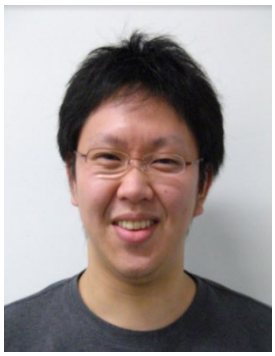
James D. Goltz is a Sociologist and former Branch Chief of the Earthquake, Tsunami and Volcanic Hazards Program for California's Office of Emergency Services. His areas of expertise include human behavior in disaster, earthquake and tsunami warning, tsunami evacuation strategies and societal aspects of earthquake early warning. Between October 2015 and November 2019, he spent three years as a visiting research professor and guest professor at the Disaster Prevention Research Institute of Kyoto University in Japan. He served as a member of the Advisory Committee for the US National Earthquake Hazards Reduction Program (2013-2019) and was a program reviewer for the National Tsunami Hazard Mitigation Program in 2017. He serves as an advisory board member for the Lucy Jones Center for Science and Society. He is currently a Researcher in Residence at the Natural Hazards Center, a center of the Institute of Behavioral Science at the University of Colorado, Boulder. He received BA and MA degrees from the Ohio State University and a Ph.D. in Social Psychology from UCLA.

Hamilton Bean, Ph.D., MBA, APR, is Associate Professor in the Department of Communication at the University of Colorado Denver. He also serves as Director of the University of Colorado Denver's International Studies Program. He specializes in the study of communication and security. He was part of a U.S. Department of Homeland Security funded research team that investigated the optimization of Wireless Emergency Alert (WEA) messages for imminent threats. He has earned funding from the U.S. Federal Emergency Management Agency, U.S. National Oceanic and Atmospheric Administration, and the Japan Foundation's Center for Global Partnership to study mobile public alert and warning. He is Associate Editor for Natural Hazards Review, and his research has been published in numerous international academic journals and edited volumes. His latest book is Mobile Technology and the Transformation of Public Alert and Warning (Praeger Security International, 2019). He returned to DPRI as a Visiting Professor in 2021 after having served as a Guest Researcher in 2019.

Ásthildur Elva Bernhardsdóttir is an Associate Professor and Head of Crisis Management program at the University of Bifrost in Iceland. She holds PhD in Political Science and Cand Oecon in Business Administration. Bernhardsdóttir has studied risk reduction and response to avalanches, earthquakes and ship stranding. She has lead Icelandic research group on crisis management in Iceland and has developed along with Icelandic scholars general guidelines on long-term response to natural disaster for local authorities. Bernhardsdóttir has also worked on her research in Sweden, the United States of America and Japan. Her main research focus has been on the impact of culture on crisis management, revealing the influence of cultural bias in decision-making processes.

Mohsen Ghafory-Ashtiany is the distinguished professor of earthquake engineering and risk management at International Institute of Earthquake Engineering and Seismology (IIEES), Associate member of Iran Academy of Science, Affiliate faculty of VA. Tech-GFURR, Chairman of BoD of SP Insurance Risk Management Institute (SPRMI), and Team Leader of WB Project on Dhaka Urban Resilience Project. He has worked with UNESCO, UNDRR, UN-HABITAT, UNESCAP, UNDP, WB-GFDRR, WHO, Global Alliance of Disaster Risk Institutes (GADRI), International Institute of Applied System Analysis (IIASA) and Inter-Academy on risk and resilience. He has been the founder of the IIEES in Iran in 1989 and was its president until 2007. He is the author of more than 350 papers, 5 books and 70 research reports in the field of random vibration, earthquake engineering, seismic hazard and risk analysis, risk management, urban resilience, and risk reduction policy development. He is Editor of Journal of Seismology and Earthquake Engineering; Co-editor of Integrated Disaster Risk Management (IDRiM) Journal, Co-editor of Iranian Journal of Science and Technology, and member of Editorial

Board of many other journals. He is founder and past President of Iranian Earthquake Engineering Association (IEEA), and a pioneer in Risk mitigation activities in Iran. He has served as member of Iran's Natural Disaster Prevention and Management Headquarter, Iran's Risk Reduction Comm., Iran Scientific Research Council, National Building Code Council, etc. He is also member of many scientific associations such as: Int. Assoc. of Earthquake Engineering, European Earthquake Engineering, UNESCO Scientific Board of the International Geoscience Program, IUGG-GEORisk, IUGG-IASPEI, ex-member of UNISDR-STC, ex-chairman of IASPE-SGM- Hazard-Risk, WSSI, etc. Finally, he has more than 36 years of professional experience in project management, program director, institutional building, policy development, at national and international levels.



Mamoru Yoshida received the B.S. (2004) and the M.S. (2006) in engineering, and the Ph.D. (2008) in informatics from Kyoto University, Kyoto Japan. He started his career at Kyoto University as a program-specific assistant professor (Global Center of Excellence Program "Global Center for Education and Research on Human Security Engineering for Asian Megacities") in 2008, then he moved to Kumamoto University as a project associate professor in 2011. Since 2015, he has been working at Institute of Integrated Science and Technology, Nagasaki University, Japan, as an associate professor. His research interests are individual decision-making, land use policies, or urban and community governance for disaster risk reduction. He has been intensively working on individual decision-making modeling about preparedness for or response to disaster risk with a series of questionnaire data from residents who experienced recent disasters in Japan. In addition, he has engaged in a causal analysis on land use policies and spatial distribution of exposure to natural hazards.

Session 3 "Exploring New Areas in a Complex World"

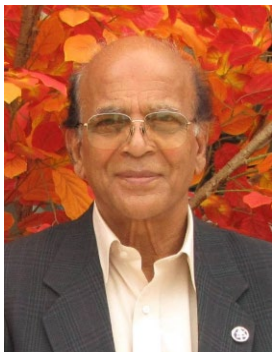
Panel discussion

Moderator

Norio Okada, Dr.Engineering (Kyoto University), specializes in disaster risk governance, infrastructure planning and management, sustainable development, and community-based participatory approach. Dr. Okada's current research themes include adaptive design of human-based resilient and sustainable communities under Persistent Disruptive Stressors (PDSs) and strategic participatory approach for Building Back Better, even Before Disasters. He is Professor emeritus of Kyoto University where he also served as Director of the Disaster Prevention Research Institute (DPRI). He is Founding President of the International Society for Integrated Disaster Risk Management (IDRiM Society), former President of the Japan Society for Natural Disaster Science. He currently serves as adviser to the Institute of Disaster Area Revitalization, Regrowth and Governance at Kwansei Gakuin University in Nishinomiya, Japan. He has extensive international experiences including research scholar at IIASA, Austria, adjunct or visiting professor at University of Waterloo, Canada, BOKU in Vienna, University of Northumbria, UK, Beijing Normal University, etc. Recently (2017-2018, 2019), he was invited to work at IASS, Potsdam, Germany, as senior fellow.

Panelists

Yoshiyuki Yama, Ph.D. in Sociology, is Professor and currently acts as Deputy Director of Institute of Disaster Area Revitalization, Regrowth and Governance at Kwansei Gakuin University in Japan, and he is also adjunct Professor, at the Disaster Prevention Research Institute of Kyoto University(2020-), University of Tokyo (2016), International Research Center for Japanese Studies(2012-2013), University of International Relations Beijing (2019), Beijing Foreign Studies University(2014-2015), Yunnan Minzu University(2014-), and Visiting researcher, at Université Paris Diderot Paris7(2013-2014). His major research interest is on community and narrative based disaster risk management, particularly in depopulated areas. He has authored/edited more than thirty books and published numerous scholarly articles in the areas of Sociology, Anthropology, Folklore studies, Archeology, heritage studies, History of Japanese Philosophy.



Bijaya Nand Misra is Professor Emeritus, School of Planning & Architecture, New Delhi, retired as Head of Urban Planning and from 1995 to 2016 professor emeritus visiting faculty. M.Tech & Ph.D. education in India, MIT (USA) and the UN. Professional experience over 50 years. Prof. Misra is a consultant on Integrated Development, Urban Management and Disaster Risk Management. His most recent assignments are Advisor SAADRI, Indian Institute of Technology, Roorkee, India (2021), Advisor School of Climate & Disaster Management Centurion University of Technology & Management, Bhubaneswar, India (2020-21) and World Bank Principal Advisor Urban Development, Government of Nepal, July 2015 to February 2016. Internationally Prof. Misra has worked as advisor and senior consultant to UNDESA (!999-2000), International Expert to UNDP & UNCHS, Ministry. of Interior Govt. of Thailand (1997). He has been visiting full time professor to Kyoto University, Japan 2007-2008, International Research Center for Japanese Studies, Kyoto, Japan 1995 & 2003 and Nagoya University, Japan 1989-1890. He worked as short time visiting professor lecturer to Beijing Normal University, Beijing, China 2014, Nagoya Institute of Technology, Nagoya, Japan 2014. He worked as Senior Advisor & Coordinator on the international consortium on GCOE Asian Mega Cities Human Security Engineering Project on disaster risk mitigation, Mumbai, India (2009-2013) supported by Government of Japan. In India, Prof. Misra has worked as Team Leader in several national projects on integrated urban development, smart city development, and disaster risk governance for Ministry of Housing & Urban Development , Government of India, Delhi Development Authority, Municipal governments and for the private sector companies, namely, Louis Berger group Development Division, Feedback Ventures & EPTISA Engineering, Mega Infrastructure Development, Mott Mcdonald PVT. Ltd. URDPFI, Govt. of India, Lee Associates (South Asia), National Economic Corridor Development.

Aniello Amendola, (Dr. Eng. 1962, University Federico II Naples, Italy) after leaving in 1997 the Joint Research Centre of the European Commission (Ispra, Italy) where he promoted the Major Accident Hazards Bureau, cooperated until December 2012 with the Risk and Society Project of the International Institute for Applied Systems Analysis (IIASA), Laxenburg, for researches on catastrophe risk management; and with DPRI (Disaster Prevention Research Institute) of the Kyoto University (Japan) where, in particular, he was visiting professor in 2001, contributing thus to manage the IIASA-DPRI Forum on Integrated Disaster Risk Management, from which the IDRiM society originated. Among his main research at JRC, the development of a dynamic analysis methodology of accident sequences opened the field to the researches on 'dynamic reliability'; and, the organization of international benchmark analysis on risk and reliability analysis of nuclear power plants and major hazard installations resulted in significant improvements in the understanding of the different methodologies for risk assessment and the connected uncertainties. He also gave courses on matter linked with his R&D activities in a number of EU universities. Before joining JRC in 1978, he was involved at Forschungszentrum Karlsruhe (Germany) and at ENEA (Bologna, Italy), in R & D activities on the thermal-hydraulic

design of reactor cores in the frame of the European Association for the Development of Fast Breeder Reactors. Main research achievement of this period was the development of a generally adopted methodology for the assessment of core thermal reliability (Hot spot – hot channel analysis).

Reinhard Mechler Reinhard Mechler has more than 20 years of experience with analyzing and addressing socio-economic aspects of disaster and climate change risks. His interest is to provide evidence-based advice to a wide range of public and private sector stakeholders in order to improve resilience-focused decision-making for disaster, climate and other risks. As the head of the 'Systemic Risk and Resilience Group at the International Institute for Applied Systems Analysis (IIASA), he currently leads a team of about 20 economists, political scientists, geographers, GIS experts, sociologists and mathematicians. He has been acting as a visiting professor at the University of Graz, as well as a senior lecturer at the University for Economics and Business in Vienna. Dr. Mechler has been leading and contributing to many international research and consultancy projects and is currently leading research for the Flood Resilience Alliance, which brings together researchers, international NGOs and the private sector to build disaster and climate resilience across the globe. He acted as a lead author on IPCC's special report on adaptation to extreme events (SREX), the 5th assessment report and the report on 1.5 °C global warming, and is currently a lead author on IPCC's 6th assessment report.

Ortwin Renn is Scientific Director at the Institute for Transformative Sustainability Research (Institute for Advanced Sustainability Studies, IASS) in Potsdam and Professor of Environmental and Sociology of Technology at the University of Stuttgart. He also heads the DIALOGIK research institute. His main research fields are risk analysis (governance, perception and communication), theory and practice of citizen participation in public projects, transformation research as well as social and technical change towards sustainable development.

Andrew Collins a is Professor of Disaster and Development and Leader of the Disaster and Development Network (DDN) at Northumbria University, UK. He leads disaster, development, health and education initiatives that engage multi-sector partnerships. Andrew entered employment in the academic sector following practice-based appointments and voluntary sector skill sharing in conflict affected areas. His research developed from an early interdisciplinary focus on environment, health and population displacement that led to the award of PhD (Geography) from King's College London in 1996, after which he gained a first full-time academic post at Sussex University. He subsequently moved to his current and founding basis for disaster and development studies at Northumbria's Geography Department. His research informs the

theoretical, methodological and policy aspects of disaster risk reduction and response, health ecology, sustainable development, adaptive capacity and human security in contexts of complex change. Recent elected positions have included as Chair of the steering group for Enhanced Learning and Research for Humanitarian Assistance (ELRHA) supported by UK Government, Welcome Trust and humanitarian agencies, Chair of Board for Global Alliance of Disaster Research Institutes (GADRI) until March 2021 and ongoing roles as Board Director for the International Society for Integrated Disaster Risk Management (IDRiM) and Co-Chair of United Kingdom Alliance for Disaster Research (UKADR).

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CONCEPT OF KANREKI

Sixty is a magical number in the Japanese culture, it is in this age wherein a person celebrates a Kanreki. To make better sense of the word, Kan means "return or cycle" and Reki depicts "calendar". It is said to be a celebration of being reborn or being a child again, it is also known as the beginning of second childhood. The Chinese Zodiac, also known as Jikkan Junishi, has 12 branches represented by the 12 animals of Chinese New Year and five natural elements such as metal, fire, Earth, water, and wood. Once a person has completed the 5 cycles of Jikkan Junishi, or a total of 60 years, he is to be born again, hence the Kanreki celebration. This system of counting Years, Months and Days was invented in China before the year 1100 BC. The Ancient Japanese has adopted this method of counting years since they also use the Lunar Calendar instead of the Gregorian calendar.

Source: YABAI writers "Kanreki: Japan's way of celebrating their sixtieth birthday" http://yabai.com/p/4296

ZOOM GUIDELINES

The Symposium and the party will be held using Zoom. Participants can access Zoom from all devices, via web browser or App. We strongly recommend downloading the App on your device for a better user experience and using a PC/laptop/mobile phone.

To download the Zoom client, you can go to:
https://zoom.us/download?_ga=2.250196422.1519593540.1631008399-49367512.1631008399#client_4meeting

You can find some resources for Joining & Configuring Audio/Video and Sharing Your Screen on:
https://explore.zoom.us/en/resources/