THE 10TH CONFERENCE OF THE INTERNATIONAL SOCIETY FOR INTEGRATED DISASTER RISK MANAGEMENT

IDRiM 2019

15-18 OCTOBER, 2019

Knowledge-based Disaster Risk Management: Broadening the scope by « Smart Territories » for Sustainable and Resilient Cities and Organizations

PROVISIONAL PROGRAM

(Version 21st august, 2019)

www.idrim2019.com

Knowledge-based Disaster Risk Management: Broadening the scope by « Smart Territories » for Sustainable and Resilient Cities and Organizations

AFPCN PARTNERS INVOLVED

Knowledge-based Disaster Risk Management: Broadening the scope by « Smart Territories » for Sustainable and Resilient Cities and Organizations

COMMITTEES

ORGANIZING COMMITTEES

ASHTIANY Mohsen
BARYLA Christiane
BAUDUCEAU Nicolas
BOSSU Rémy
CHANAL Anne
COLLINS Andrew
CRUZ Ana Maria
DORFSTAETTER Matthias
FERRAND Yannick
GAHLIN Sylvia
GREMILLET Catherine
HATAYAMA Michinori
HERNANDEZ David
HOCHRAINER Stefan
JUNKO Mochizuki
LAZARO CLIMENT Gloria Sara
LEMIALE Vincent
MERAD Myriam
MOHAND-SAID Lucile

NAZÉ Pierre-Alain
NGUYEN Thuy-Binh
NUSSBAUM Roland
OKADA Norio
OLIVER Jean-Louis
PIERRON Sylvette
RICHARD Didier
ROSE Adam
ROUMAGNAC Alix
SACHER Michel
SOMMADE Christian
TANGUY Jean-Michel
TATANO Hirokazu
VERRHIEST Ghislaine
VINCENT Marc
VOIRON Christine
YOKO Matsuda
YOKOMATSU Muneta

SCIENTIFIC COMMITTEE

ALEXANDER David
AMENDOLA Aniello
ATSUMI Tomohide
ATUN Funda
AVEN Terje
BAUDUCEAU Nicolas
BENAZZOUZ Mohammed
BERTRAND Etienne
BRICENO Salvano
CARREE Florence
CHATTERJI Manas
COLLINS Andrew
COMBESCURE Didier
CRUZ Ana Maria
De GROEVE Tom
DECHY Nicolas
DEHOUCK Laurent
ECKERT Nicolas
FELTSCHER Markus
GHAFORI-ASHTIANI Moshen
GOLTZ James
GRANDJEAN Gilles
HAYSE Jan
JABOYEDOFF Michel
JORE Sissel Haugdal
KOTRONI Vassiliki
KOVACS Paul
KRAUSMANN Elisabeth
LAMBERT James H.
LASSAGNE Marc
LEMIALE Vincent
LINEROOTH-BAYER Joanne
LINKOV Igor
LLASAT Maria Carmen
LOPEZ VAZQUEZ Esperanza
MAMULA-SEADON Ljubica

MENONI Scira
MERAD Myriam
MHAMMDI Nadia
MICHELLIER Caroline
MISRA Bijay Anand
NACHTNEBEL Hans-Peter
NDIAYE Ousmane
NOY Ilan
NUSSBAUM Roland
OKADA Norio
OKUNURA Makoto
OZUNU Alexandru
PALMA OLIVEIRA Jose
PETRUCCI Olga
PETURSDOTTIR Gudrun
PIGEON Patrick
PONSERRE Sylvain
PRETTENTHALER Franz
RENN Ortwin
RIOS David
ROSE Adam
SCAWTHORN Charles
SCHWARZE Reimund
SERGE Julio
SHI Peijung
SIEMBIEDA William
TANGUY Jean Michel
TATANO Hirokazu
VAN WASSENHOVE Wim
VERRHIEST-LEBLANC Ghislaine
VINET Freddy
VOIRON Christine
YAMA Yoshiyuki
YAMORI Katsuya
YLONEN Marja

IDRIM 2019 ANNUAL CONFERENCE, 15-18 OCTOBER 2019, NICE (FRANCE)

Knowledge-based Disaster Risk Management: Broadening the scope by « Smart Territories » for Sustainable and Resilient Cities and Organizations

DESTINATION

LOCALISATION

IDRiM 2019, the 10th Conference of the International Society for Integrated Disaster Risk Management will take place in Nice (France), in two locations :

Centre universitaire méditerranéen (CUM)
65 Promenade des Anglais
06000 Nice
FRANCE

Société Centrale d'Agriculture et d'Horticulture de Nice et des Alpes-Maritimes (SCAH)
113 Promenade des Anglais
06200 Nice
FRANCE

More information about the conference venue will soon be available !

TRANSPORT

Nice Airport is located just 15 minutes by tramway from the city :

Tram 2 direction Nice Jean Médecin
> Departure : Terminal 2 – porte A2 & Terminal 1 – porte A0
> Stop : **Centre Universitaire Méditerranéen (CUM)**

Click here for more information

Knowledge-based Disaster Risk Management: Broadening the scope by « Smart Territories » for Sustainable and Resilient Cities and Organizations

REGISTRATION

REGISTRATION FEES

REGISTRATION CATEGORIES	EARLY BIRD *up to 31th august 2019*	STANDARD *from 1st september 2019*
Non member	400 €	450 €
IDRiM member	300 €	350 €
AFPCN member	300 €	350 €
Student non member	200 €	250 €
Student member	160 €	200 €
Member of a project accepted to organise a session (min 5)	200 €	250 €
Daily rate (for members)	100 €	120 €
Gala dinner	100 €	100 €

Registration

If you need any help during the registration, please consult the **registration guidelines here**, or contact us thanks to the informations below

CONTACT INFO

Myriam Merad : idrim2019@afpcn.org
Justine Loubry : j.loubry@afpcn.org

www.idrim2019.com

Knowledge-based Disaster Risk Management: Broadening the scope by « Smart Territories » for Sustainable and Resilient Cities and Organizations

PROVISIONAL PROGRAM

TUESDAY, OCTOBER 15th 2019

The opening ceremony of the conference will be held on october 15th, between 4pm and 6pm. More informations available soon !

WEDNESDAY, OCTOBER 16th 2019 (page 6)

THURSDAY, OCTOBER 17th 2019   (page 7)

FRIDAY, OCTOBER 18th 2019   (page 8)

Field trips and side event will be organised respectively by city of Nice and SMIAGE
- on **specific flood risk management innovation issues** (registration during the conference for those who have opted for the "gala dinner and field trip option") - those participants might better plan to stay in Nice at least until Saturday morning.
- on **Cultural Heritage Risk Management** organized by BLUE SHIELD FRANCE, as an AFPCN partner, on Friday 18 October 2019 (3:30 pm - 5:30 pm). Taking the opportunity of IDRIM2019 in Nice, Blue Shield France will organize a side event open to IDRIM participants and to heads of cultural institutions possibly interested in the topic (by invitation only). The past year has seen major cultural disasters (Cathedral Notre-Dame de Paris, Rio Natural History Museum, Cocteau Museum in Menton, etc.) that remind us of the importance of prevention in all cultural heritage institutions. Nice and its area being particularly at risks. The workshop will focus on risk assessment, disaster prevention and preparedness.

Concept note and detailed program soon on :
www.bouclier-bleu.fr

Wednesday 16 October 2019

	Amphi	Room B	Room C	Room D
08:00	Registration			
8:30-9:00	Opening (Amphi)			
9:00-9:45	Keynote (Amphi)			
9:45-10:45	Keynote RoundTable (Amphi)			
10:45-11:00	Coffee Break			

| 11:00-12:30 | **RoundTable A 1-1**
Chair: Gloria Sara Lazaro Climent, /Andrew Bower

Actions and strategies to build resilient cities in the face of climate change
Gloria Sara Lazaro Climent, /Andrew Bower | *Session B 1-1 "Risk, resilience and macro-economics"*
Chair: Adam Rose

Economic Impact Assessment of Disasters using Computable General Equilibrium Models: A Meta-Analysis
Lei Zhou, / Zhenhua Chen

Measuring Business and Economic Resilience in Disasters
Adam Rose, /Noah Dormady,/Alfredo Roa-Henriquez

Damage and Recovery of Industrial Sectors Affected by the 2018 Hokkaido Eastern Iburi Earthquake
Yoshio Kajitani, /Ken'etsu Uchida,/ Yousuke Takahashi, /Hirokazu Tatano

Not if but when and how much: Time-dependent Risk-Layering for Effective Adaptation against Climate and Global Changes
Hochrainer-Stigler Stefan, /Schinko Thomas | *Session C 1-1 "Learning from Major accidents and disasters"*
Chair: Nicolas Dechy

Crisis leadership and decision-making during extreme events
Matt Dorfstaetter

Interpreting weak signals with the knowledge of accidents: a case study in nuclear risk management
Nicolas Dechy, /Jean-Marie Rousseau, /Alexandre Largier, /Stéphanie Tillement, /Jan Hayes, /Be-noit Journé

Wide-area disaster information sharing efforts in Japan and comparison with the United States - Comparison of Michinoku ALERT 2018 and CAPSTONE 14 -
Tadashi ISE

Revisiting the Contributions of Emergency Operations Centres
Michel C. Doré | *Session D 1-1 "Conceptual approaches to disaster science"*
Chair: Mohamed Taabni

Thought on the research in disaster geography
Lili luo

From the disaster management challenge to the construction of territorial resilience, what role do planning and urban planning documents play in risk management in Algeria?
Mohamed TAABNI

Would the integration of existing local skills and practices support the mitigation of vulnerabilities?
Céline Cholez

The Belt and Road: Geographical pattern and regional risks
Shaohong Wu, /Lulu Liu, /Jiangbo Gao |
| 12:30-13:30 | Lunch | | | |

| 13:30-15:00 | *Session A 1-2*
Chair: Motohiko Nagata

Collaborative Practice and Action Research to Promote Endogenous Recovery from the 3.11 East Japan Earthquake & Tsunami: 8 Years Experience in Noda
KANGYU /NAGATA/ LEE /HANADA/KAWAMURA,ATSUMI | *Session B 1-2 "Case studies of French smart territories"*
Chair: Etienne Bertrand

Seismic and landslides hazards in the high stakes area of the Nice Côte d'Azur airport
Courboulex F., /Migeon S. , /Sladen A., /Larroque C., /Kelner M.,/ Deschamps A., /Hello Y.

Issuing early warnings based on an optimized threshold for rainfall-related incidents of railway sites of France
Reyhaneh S. Hashemi, /Pierre Javelle, /Ludovic Oudin, /Didier Organde, /Bahar Salavati, /François Chirouze

Towards a better management of the cascading effects of the technical net-works of Paris and the Ile-de-France region in the face of a major flood of the Seine
Vuillet M, /Pottier N, /Deck O, /Lhomme S, /Del Mondo G

PROTERINA-3EVOLUTION PROJECT. DEVELOPMENT AND EXPERIMENTATION OF A TECHNOLOGICAL DEMONSTRATOR FOR FAST KINETIC FLOODING SUPERVISION : APPLICATION ON THE MAGNAN RIVER BASIN IN NICE
Yannick FERRAND /Sylvia GAHLIN | *Session C 1-2 "Marco-economics and learning from experience"*
Chair: Muneta Yokomatsu

Who Pays? The Economics of Managed Retreats
Cuong Nguyen, / Ilan Noy

Spatial-temporal patterns and influencing factor contributions of direct economic loss from climatological-meteorological-hydrological hazards in the world (1967-2016)
Heng Ma, / Peijun Shi

Multi-Hazard Dynamic Model of Household Migration and Regional Growth
Muneta Yokomatsu, /Junko Mochizuki, /Nepomuk Dunz, /Asjad Naqvi

Research on Comprehensive Assessment Technology of Major Natural Disaster Risk Degree in China
Erfu Dai | *RoundTable D 1-2*
Chair: Scira Menoni

LODE Project
Scira Menoni, / LODE Consoritium |
| 15:00-15:10 | Break | | | |

| 15:10-16:40 | *Round Table A 1-3*
Chair: Nicolas Mazzucchi

Digitalization and territories: dealing with cyber risks
Nicolas MAZZUCCHI, /Eric HAZANE, /Olivier KEMPF, /Thierry BERTHIER | *Session B 1-3 "Crisis and disaster management"*
Chair: Christian Despres

CIT'IN CRISE : A flood crisis management simulator for citizens
Piatyszek E./ Ayral P-A.,/ Berton C.3, Bony A., /Bouillet P., Charny F., /Colenson P., /Fortin J., /Fréalle N., /Sauvagnargues S., /Spinelli R.,/ Tardy A., /Tena-Chollet F., /Tixier J.

REsilience of the Franco-German High Speed TRAIn Network: The REHSTRAIN project
Stefan Pickl

Strategic decision support in crisis management. The SANCTUM project (Crisis Analysis System by Uchronic Simulation Process)
Christian Despres

The Application of Health Informatics in Disaster Risk Management
Angeli Medina | *Session C 1-3 "Collaborative approaches to prevention and disaster management"*
Chair: William Siembieda

Collaboration with disaster volunteer activities through Social Networking Service(SNS)
Min. Y., /Atsumi,T.

Consideration on Human Resource Cooperation among Local Governments after Disasters
Ryosuke Aota

Sharpening knowledge and tools of IDRiM practice at local level for promotion of coordinated participatory local initiatives and creation of sustainable resilient communities
Bijayanand Misra

Regional Collaboratives for Climate Adaptation and Resilience: California's emerging smart territories experiment
William Siembieda | *Session D 1-3 "Critical insfrastructures"*
Chair: Hirokazu Tatano

Shipping Resilience. Strategic Planning for Coastal Community Resilience to Marine Transportation Risk
David N Bristow, /Stephanie E Chang, /Floris Goerlandt, /Ron Pelot

Spatial and temporal characteristics of hurricane-related Natech events in the US from 1990 to 2017
Xiaolong Luo, /Ana Maria Cruz

Assessment of Scenarios of Terrorist Attacks against Critical Infrastructure Facilities and Development of Countermeasures
Nikolay A.Makhutov, /Dmitry O.Reznikov

Ready or not? Urban households' preparedness for disruptions of critical infrastructures
Simone Sandholz, /Mia Wannewitz |
| 16:40-17:00 | Coffee Break | | | |

| 17:00-18:30 | *Session A 1-4 "Cities and peoples"*
Chair: Vibhas Sukhwani

A Conceptual Approach for Developing Smart URBAN-RURAL Linkages in Nagpur Metropolitan Area (NMA), India
Vibhas Sukhwani, / Rajib Shaw

Integrating urban disaster risk and environmental risk management with the urban metabolism and the urban immune system
David N Bristow, Eugene Mohareb

CAPACITY BUILDING FOR MITIGATING DISASTER DUE TO EARTHQUAKE IN BIHAR STATE OF INDIA
Nirmal Kumar

Resilience Approach for a Modern Risk Society: Implication for Smart Cities
Mika Shimizu, / Allen Clark | *Session B 1-5 "Crisis management"*
Chair: Audrey Fertier

The R-IOSUITE to sustain the collaboration of organizations during a crisis response
Audrey Fertier, /Nicolas Salatgé, /Hélène Dolidon/ Frederick Benaben

Evaluating the effectiveness of Shanghai heathealth warning systems based on heat-related illness
Wu Yaqiao,/ Wang Xiaoye, /Yang Saini, /Wu Jingyan, /Wang Rui

Discussions on an emergency water supply after a disaster
Hideyuki Ito, /Gentaro Yoshizawa, /Wisinee Wisetjindawat,/ Michinori Hatayama, /Muneta Yokomatsu

Maintaining Public Security and Safety after Major Earthquakes
Yasamin O. Izadkhah, / Mahmood Hosseini | *Session C 1-5 "Cooperation, participation and learning from experiences"*
Chair: Subhajyoti Samaddar

How to Cooperate? Integrated Approaches to Risk Management in Germany
Eva Stock, /Ina Wienand, /Christine Eismann

'Sense of Community' under Disaster Risks. Is it a catalyst of Participation?
Subhajyoti Samaddar, /Hirokazu Tatano

Coastal management strategy in Kourou, French Guiana
Longueville F., /Sigwald R., /Verneyre L., /Grisel M

What we learn by applying the entry and exit transitions model
William Siembieda | *Session D 1-5 "How to improve the governance of risk and disasters recovery?"*
Chair: Peijun Shi

Geographical Synergetics and Integrated Disaster Risk Governance
Peijun SHI

Types of formation for supporting vulnerable people during tsunami evacuation
Nobuhito OHTSU, /Akihiko HOKUGO, / Abel Táiti Konno PINHEIRO

Preventing Disaster by enforcing Technical ByLaws for Construction of Housing in the Bihar State of India
Nirmal Kumar, /Sunil Kumar Chaudhary

Disaster Risk Finance in Japan: Need for Shift from Government to Governance
Shingo Nagamatsu |
| 18:00 | Closing Session | | | |

Thursday 17 October 2019

	Amphi	Room B	Room C	Room D
				Room D
8:00-8:45	Invited Speaker (Amphi)			
8:45-8:50	Break			
8:50-10:20	**Session A 2-1 "Prevention and recovery"** Chair: Anika M. Bell	**Session B 2-1 "Insurance and economical mechanisms"** Chair: Ilan Noy	**Session C 2-1 "Sectoral risk management issues: Focus on tourism based studies"** Chair: Thalia Balkaran	**Interactive Session D 2-1 "Participative governance and management"** Chair: Norio Okada
	Recovery Modelling of Coastal Community Marine Supply Chain in Small and Large Disruption Scenarios c Anika M. Bell /David N. Bristow	The effect of flood risk on property values around Paris Edwige Dubos-Paillard, /Emmanuelle Lavaine, /Katrin Millock	Tourist-oriented tsunami-risk communication: The challenges and perspectives of key stakeholders in Japan Aliperti Giuseppe , /Hayato Nagai , /Ana Maria Cruz	Applying Risk Governance Frameworks for Dynamic Environments? Analyzing international frameworks on Rio de Janeiro State, Brazil Alicia Bustillos Ardaya, / Mariele Evers
	Prevention of tsunami risk on the North-Occidental Mediterranean sea: an active preparation of local actors to cope with an event G. VERRHIEST-LEBLANC, /C. HERVE, /C.SABANI, /F. SCHINDELE	Essay on the Debt: Constructing "a circuit of affirming debt" following a disaster in Japan Hiroaki Daimon, /Tomohide Atsumi	Making a Collaborative Disaster Recovery Plan for the Tourism-based Town of Yufu, Oita, Japan- By using the Yonmenkaigi System Method Michitaka Tahara,/ Mii Ichikawa, /Shunsuke Hamada, /Osamu Ide, /Norio Okada	Community engagement in preparing for natural water disasters of different time and magnitude scales. A comparative study between Japan and England Hideyuki Shiroshita, /Ravindra Jayaratne, /Kaori Kitagawa
	CLIMATE-INDUCED DISPLACEMENT AND CLIMATE DISASTER LAW: CHALLENGES AND OPPORTUNITIES Sunil Kumar Chaudhary	Assessing disaster economic impact considering transportation network, Natural disaster and an integrating CGE model Masato Yamazaki	Decreasing the vulnerability of Tourism Micro, Small and Medium Enterprises (MSME's) to Tropical Cyclones through Disaster Risk Reduction Measures Thalia Balkaran	Implementation Science for Disaster Risk Management – A Critical Review Subhajyoti Samaddar, / Hirokazu Tatano
	Reconstruction Process of Fishery Processing Industry in Kesennuma City After the Great East Japan Earthquake -Focusing on Relation Between Their Recovery and Administrative Project Tetsuya TORAYASHIKI	High-resolution Capital Stock Data of Private Enterprises Creating Grid Data for Loss Estimation of Natural Disaster in Japan and Applying to Inundation Area due to Massive Tsunami Satoshi Shimizu, / Masato Yamazaki	Tourism and risk governance: Managing contradictory interest towards sustainable territorial development Berger-Sabbatel Amandine	Boundary Crossing to Decision Making and Sense-Making in Revitalization Process: An Action Research on Encouraging Verbalization with Metaphors by Outside Supporters Hironori YAMAGUCHI, /Tomohide Atsumi, /Yoshihiro SEKI
10:20-10:30	Break			
10:30-11:50	**Young scientists oral session A 2-2 "Risk assessment and modelling"** Chair: Samuel Rufat	**Young scientists oral session B 2-2 " Early warning, crisis management and resilience"** Chair: Claire Auplat	**Young scientists oral session C 2-2 "Risk, responsibility and regulation"** Chair: Muneta Yokomatsu	**Young scientists oral session D 2-2 " Assessing and governing resilience"** Chair: Didier Georges
	SEISMIC RISK MAP OF IRAN RESIDENTIAL BUILDING STOCK Parisa Shahbazi, /Babak Mansouri, /Mohsen Ghafory-Ashtiany	Cell Broadcast to alert the population: what spatial efficiency in France? Comparative evaluation between Cell Broadcast and traditional alerting means in the department of Vaucluse Esteban Bopp, / Johnny Douvinet, /Damien Serre	Yonmenkaigi System Method as an Educational Framework for Climate Change within the United Kingdom: A Pilot Study Mark Ashley Parry	Managing risk for a more resilient world (II) Nour CHAROUR, /Manon FARVACQUE, /Rouba ISKANDAR
	Building dynamic cards for monitoring building environments behavior and reconstruction in disasters: a data centric perspective Genoveva VARGAS-SOLAR	Survey and analysis on evacuation decision of residents in areas where tsunami embankment construction is proceeded Kyoka Yoshida , /Tomohiro Yasuda , /Tatsuhito Kono	Modeling of the socioeconomic consequences of an earthquake at the urban scale and responsibilities C. Dollet, /P. Guéguen	Managing risk for a more resilient world (III) Aurélie PEILLON, /Mohamad SHAHROUR, /Mohit MISHRA
	Drought Risk Assessment in Beijing-Tianjin-Hebei Region in Recent 45 Years Qian Li, /Yingjun Xu, /Li Xu, /Huazhen Zhou	An evidence-based approach to writing short warning messages for the New Zealand public Sally Potter	Practice of Disaster Education in Mexico. "Cultural Tuning" Based on Comparative Study of Public Educational Curriculum Between Japan and Mexico Takuya Iwahori, Genta Nakano, Katsuya Yamori	Critical Lifeline Recovery. Reusable Infrastructure Systems Modeling for Urban Recovery Planning Andrew Deelstra, / David N Bristow
	Urban Flood, A Case Study of Gurugram Jeevan Madapala, /Mahua Mukherjee, /Sumit Sen	The potential for Earthquake Early Warning in New Zealand: Investigating the social benefits Sally Potter, /Julia Becker, /Ben Payne, /Kazuya Nakayachi	Risk management and mandatory regulation: the lessons of SEVESO directives Claire Auplat, / Myriam Merad, /Mohammad Habibpourfatide	Haiti, A Fragile State in Disaster. The international management of the 12th January Earthquake Clément Paule
	Modeling of Earthquake-induced Natech in an Oil Refinery Using Bayesian Network for Domino Effect Tomoki Maekawa, / Ana Maria Cruz	Development of disaster risk management plan of a thermal power plant: Spearheading the paradigm shift from disaster management to disaster risk man-agement of NATECH in India Repaul Kanji, /Ankur Srivastava, /Madan Mohan Rout, /Ranjan Kumar	Impact Analysis of Designating Disaster Risk Zones on Land Prices of Tourist Regions Ryuuske Adachi, /Yasmin Bhattacharya, / Hitoshi Nakamura	Effect of Social Norms for the Elderly and the Disabled on Regional Disaster Prevention Actions in Japan Taketo SHIZUMA, /Shoji TSUCHIDA, /Kaoru URAYAMA
	Dynamic Bayesian Network Analysis for Oil Plant Natech Disasters Induced by Multiple Hazards Eishiro Higo	"The closer I get to them, the more distant I feel from them" – a discussion of a psychological dilemma between a volunteer and survivors Ryohei Miyamae	Legal challenges for the effective public participation in flood risk management plans Katažyna Mikša, / Paulo Pereira	An Empirically Estimation of Lifeline Resilience Factors . Evidence from Business Recovery Process after the 2011 Great Japan Earthquake HUAN LIU,/ HIROKAZU TATANO, /YOSHIO KAJITANI
	Bayesian estimation of natural extreme risk measures: Application to the agricultural insurance Meryem BOUSEBATA	First steps towards setting up a hydromorphological observatory to characterize sediment mobility in a catchment for flood mitigation. Case of the Gave de Pau catchment, Hautes-Pyrénées, France Rabab Yassine, /Benoit Thouary, /Olivier Frysou, /Ludovic Cassan, /Guillaume Delai, /Thomas Geay, /François Lauters, /Fabien Levard, /François Peres, /Alain Recking, /Aileen Robert, /Hélène Roux, /Sébastien Zanker	Construction of cooperation model which made children's center a knot point in regional disaster prevention activities A Case Study of Kuroshio-Town, Kochi-Prefecture, JAPAN Natsumi OKADA, / Katsuya YAMORI	Analyzing and understanding the flood risk to buildings using virtual reality simulation Vitalijs Terentjevs, /Ahmed Atef, /David Dristow
	Performance Comparison of Post Disaster Humanitarian Logistics in the Aftermath of the Tohoku Disasters and the Kumamoto Earthquakes Riki KAWASE, /Junji URATA, /Takamasa IRYO	Development of Business Interruption (BI) Curves for Iranian Production Sec-tor based on Loss Data collected after 2017 Sarpol-e Zahab Earthquake Masoud Khamisabadi, /Mohsen Ghafoury-Ashtiany, /Hooman Motamed	Conceptualising the Communicative Behaviour of Citizens towards Natech Risk Information Disclosure in Japan TZIOUTZIOS Dimitrios, / CRUZ Ana Maria, / KIM Jeong-Nam	Integrated Sakurajima Volcanic Ash Fall Prediction under Climate Change, An Analysis based on JRA-55 Data using Neural Network Haris Rahadianto, /Hirokazu Tatano, /Subhajyoti Samaddar
	Development of an area-wide Natech risk management framework for enhancing territorial and organizational resilience Maria Camila Suarez-Pabaa / Ana Maria Cru	Evaluation and Analysis of Disaster Resilience in Relation to the Scheduling of Road Network Restoration Kyosuke Takahashi, /Wataru Shiraki, / Hitoshi Inomo	Decision-making in ERM (enterprise risk managment) and risk analysis methods Ali ALJARF	Biodiversity Evaluation of Scenarios of Introducing Eco-DRR (Ecosystem-based disaster risk reduction) Based on Depopulation and Aging ：A Case Study of Fukui Prefecture, Japan Masaya Hanafusa, /Takehito Yoshida, /Tomohiro Ichinose
	Territorial resilience and power outage as risk system in south-east France DUTOZIA, Jérôme	Incident Evolution Methodology: A Tool to Consider, Model and Analyse Cascading Effects Clément JUDEK, /Abla-Mimi EDJOSSAN-SOSSOU, /Florence CARRE, /Franck PRATS, /Anders LÖNNERMARK, /Xavier CRIEL, /Alexander CEDREGEN	Modeling to Support Acceleration of Restoration of Infrastructure Systems due to Flooding Afia Siddika Ivy, / David N. Bristow	
11:50-12:50	Young scientists poster session (over cups of coffee)			
12:50-13:50	Lunch			
13:50-14:35	2 Invited Speakers (Amphi)			
14:35-14:40	Break			
14:40-16:10	**Session A 2-3** Chair: Didier Georges	**Session B 2-3 "Innovations and solutions (I)"** Chair: Jacques Testud	**Session C 2-3 Innovations and solutions (II)** Chair: Yannick Hémond	**RoundTable D 2-3** Chair: François Schnidele
	Managing risk for a more resilient world (I) Didier GEORGES, /Carole ADAM, /Stéphane CARTIER,	BRAIN: Borderless Radar Information Networking over South and Southeast Asia Hideyuki Kamimera	Evaluation of risk communication tools using locally accessible data Yoko Matsuda, /Kei Nozawa, /Hideyuki Kamimera	Tsunami risk: prevention and alert in smart cities François SCHINDELE (Moderator)
		ZPHI® software: A revolution for all applications of hydrometeorology Jacques Testud, /Erwan Le Bouar, /Emmanuel Moreau	Fiware4Water Application Sonia Siauve	
		Tool box for climate change adaptation Benjamin EINHORN, /Carine PEISSER,/Simon GERARD	Project emergency research unit (P-ERU) : sharing information for a better operational innovation in resilience, risk and disaster. Yannick Hémond, / Michel C. Doré	
		A Box of Individual Emergency Reliefs: An Individuals Preparedness Motivated by Community's Practice Fuko Nakai	Mayane Safe City Emma HAZIZA	
16:10-16:30	Coffee Break (Interactive Poster Session)			
16:30-18:00	**Session A 2-4** Chair: Ana Maria Cruz	**RoundTable B 2-4** Chair: Leslie Salvan/ Raphaelle Dreyfus	**Session C 2-4 "Risk, resilience and macro-economics"** Chair: Junko Mochizuki	**Session D 2-4 "Risk perception and communities"** Chair: Samuel Rufat
	Bringing Together Natech Stakeholders for Resilient Territories: Moving Towards "Smart" Cities Ana Maria Cruz, /Maria Camila Suarez-Paba, /Elisabeth Krausmann, /Gustavo Londono G., /Jaime Hernán Aristizábal, /Thomas Marcon, /Norio Okada, /Guoyi Han, /Huang Lei	Case study of naturel risk management south east of France Leslie Salvan/ Raphaelle Dreyfus	The Climate-Change-Attributable Economic Costs of Hurricane Harvey David J Frame, /Michael F Wehner, /Suzanne M Rosier, / Ilan Noy	Climate Change and Risk Perception among Urban Poor Communities Belize City Case Study Judith Cuadra
			Many faces of structural change: Case study on the 1995 Kobe Earthquake Yasuhide Okuyama	Predicting risk perception, adaptation and evacuation behaviour to improve Disaster Risk Management and Resilience in Paris, France Samuel Rufat
			An Estimation of the Economic Direct Loss Caused by Blockade Yasuhiro AKAKURA, / Kenji ONO	
			Measuring economic cascading effect of floods disaster with a mixed exoge-nous/endogenous input-output model, a case study in Japan Lijiao Yang , /Xinyu Jiang, /Hirokazu Tatano	What risks are urban people concerned about? Exploring urban versus rural difference in Taiwan on information source credibility, risk perception and preparedness Chiung-wen (Julia) Hsu
				Disaster Information from the Viewpoint of Speech Act Theory: Constative, Performative, and Declarative Utterances Katsuya YAMORI
18:00-18:50	General Assembly			
19:00	Gala Dinner			

Friday 18 October 2019

	Amphi	Room B	Room C	Room D
8:00-8:45	Invited Speaker (Amphi)			
8:45-8:50	Break			

8:00-8:45 — Invited Speaker (Amphi)

8:45-8:50 — Break

8:50-10:20

Amphi	Room B	Room C	Room D
Session A 3-1 **Chair:** Khadija Khan	**Round Table B 3-1** **Chair:** Jorge Diaz	**Session C 3-1 "Sendai and build back better"** **Chair:** Stefan Hochrainer-Stigler	**Session D 3-1 "Risk, resilience and vulnerability assessment and modelling"** **Chair:** Abla M. Edjossan-Sossou
Management, Human Rights and Environmental Challenges of Disaster and Resilience Building A National Perspective in the Multi-disciplinary World Khadija Khan, /Junaid Akhtar, /Zohra Bano, /Sohaib Ur Rahman, /M.Ali Durrani, /Sheraz Hussain, / Omer Ahmed Awan	Disaster Risk Management in Smart City Planning Dr. Jorge Diaz, / Dr. Ivan Cartes / MSc.Sayaka Yoda	DISASTER RISK REDUCTION AND THE SENDAI FRAMEWORK: WHAT DOES IT MEAN FOR BIHAR DISASTER RESILIENCE PRACTITIONERS? Sunil Kumar Chaudhary	Probabilistic estimation of tsunami heights using random phase stochastic fault model on the coast of Tokushima Prefecture, Japan Tomohiro Yasuda, / Kohei Shigeta
		Enhancing Building Back Better to Building Back Better even Before - Evidence-based research challenges in Japan Norio Okada	Agent-based model for simulating households' self-evacuation decision in high-rise buildings under critical infrastructures failures induced by a slow-onset flood conditions – a case study in Paris Abla M. Edjossan-Sossou,/ Marc Vuillet, /Rasool Mehdizadeh, /Olivier Deck
		Costs of incoherence and benefits of coherence in Post-2015 Agendas Simone Sandholz, /Mar Moure, /Mia Wannewitz, /Matthias Garschagen	Measuring the unquantifiable: Mapping Interdependencies between Transport and Water systems after disaster Erica Mulowayi
		Consideration on Support Policies for Affected Victims Based on Creative Recovery and Reconstruction from the Great Hanshin Awaji Earthquake Ryosuke Aota	Quantitative analysis of behavior under flood emergency: observation by mobile phone location data Naoki Zeniya, /Hiromichi Yamaguchi, /Shoichiro Nakayama
			The sensitivity to WRF shortwave radiation parameterizations in prediction of global horizontal irradiance for investigating interactions of atmosphere with croplands Ankur Srivastava, /Sarita Kumari, /Prateek Sharma, /Rajkumar Dhakar

10:20-10:30 — Coffee Break

10:30-12:00

Amphi	Room B	Room C	Room D
Session A 3-2 "Insurance and economical mechanisms" **Chair:** Joanne Linnerooth-Bayer	**Session B 3-2 "Nature-Based Solutions"** **Chair:** Jean-Marc Tacnet	**Interactive Session C 3-2 "Sharing experience and solutions"** **Chair:** Deepak Rawat	**Session D 3-2 "Complexity - Natech-Early warning Systems"** **Chair:** Patrick Pigeon
Insurance as a Response to Loss and Damage? Linnerooth-Bayer, J., /Surminski, S., /Bouwer, L.M., /Noy, I., /Mechler, R.	Efficacy of Nature-Based Solutions and strategies for flood protection. A new hybrid design methodology Jean-Marc Tacnet, /Guillaume Piton, /Philomène Favier, /David Moncoulon, /Roxane Marchal	Emergency Control of Air Transportation Network under Large-Scale Eruption Masamitsu ONISHI, /Koreharu KURAHARA	Contextualizing data for improving risks related knowledge in Esmeraldas (Ecuador) Patrick Pigeon, /Julien Rebotier, /Pascale Metzger
DLT applications for index-based drought insurance in agriculture Reimund Schwarze, / Oleksandr Sushchenko	Half a degree warming might cause doubled economic loss and intensified affected population of flood in China Jiangbo Gao, /Lulu Liu, /Shaohong Wu	Spatial and Temporal Variation of Weather Factor in the wind erosion area of Northern China, 2000-2016 Feng Zhang, /Xingya Feng, /Rui Mao, /Xueyong Zou, /Jing'ai Wang	Natech risk drivers and risk management performance indicators Elisabeth Krausmann, /Serkan Girgin, /Amos Necci
Research on the economic impact assessment of flood caused by affected people and capital damage Zhengtao Zhang, / Peng Cui, / Ning Li	Systemic integration of nature-based solution in cities with a focus on equity and social justice: a multi-disciplinary literature review Funda Atun-Girgin, /Karin Pfeffer, /Richard Sliuzas, /Diana Reckien	Analysis of a Typical Landslide in Uttarakhand: Assessment and Mitigation Solutions Deepak Rawat, / M.L. Sharma	Casualties Vulnerability Assessment to Seismic-Landslide Disaster Chain Xinhang Zhang, /Wei Xu, /Lianjie Qin
Evaluating Financial Impact of Earthquakes for France within the Natural Dis-asters Compensation Scheme, Benefits from a new modelling tool for both prevention and compensation Julien REY, / Pierre TINARD	Response of soil organic carbon to climate change in Northern Tibet permafrost regions Dongsheng Zhao	AN INNOVATIVE APPROACH TO COST EFFECTIVE DESIGN OF EARTHQUAKE-RESISTANT BRIDGES AND ROADS Sunil Kumar Chaudhary	New direction in Disaster Management Research Manas Chatterji
		SELF EXPLAINING ANF FORGIVING ROADS TO IMPROVE ROAD SAFETY Sunil Kumar Chaudhary	

12:00-12:45 — Lunch

12:40-12:50 — Presentation of the IDRiM 2020

12:50-14:20

Amphi	Room B	Room C	Room D
Round Table A 3-3 **Chair:** Claire-Anne Reix	**Session B 3-3 "Risk, resilience and vulnerability assessment and modelling I"** **Chair:** Christopher G. Burton	**Session C 3-3 "People and organizations"** **Chair:** Samuel Auclair	**RoundTable D 3-3** **Chair:** Roland Nussbaum
Intense rains and flash floods: prevision, prevention, alert and rescue in smart cities Claire-Anne REIX (Moderator)	Practical Research on Development of "Disaster Response Switch" Kensuke Takenouchi, / Katsuya Yamori	Citizens as sensors to better understand ongoing natural disaster thanks to their tweets, The SURICATE-Nat platform Samuel AUCLAIR, /Rachid OUARET,/Faïza BOULAHYA, /Robin QUIQUE,/ Babiga BIRREGAH, /ddie SOULIER, /Pascal PERRIER , /Abed BENAICHOUCHE	Achievements of applied research to improve smart territories and resilient organisations Good practices by prevention institutions of national insurance markets: experiences from the French and the Swiss case Roland NUSSBAUM
	Spatial Flood Risk Assessment: A Comparison between Using GCM-Based Rainfall Simulation Data and Using Historical Rainfall Data Xinyu Jiang , /Lijiao Yang, /Hirokazu Tatano		
	Open Quake Integrated Risk Modelling Toolkit: Open-Source Geographic Information System for Understanding the Human and Physical Components of Earthquake Risk Christopher G. Burton, / Bijan Khazai	Women's Dual Roles in 2017 Kermanshah Earthquake: Challenges and Contributions Yasamin O. Izadkhah, / Mahmood Hosseini	
	Measuring Vulnerability and Resilience to Earthquakes Christopher G. Burton, / Michael Musori		

14:20-14:30 — Break

14:30-16:00

Amphi	Room B	Room C	Room D
RoundTable B 3-4 **Chair:** Catherine Gremillet	**Session B 3-4 "Risk perception and culture"** **Chair:** Tomohide Atsumi	**Session C 3-4 "Communities, risks and resiliences"** **Chair:** Wei Xu	**Session D 3-4** **Chair:** James D. Goltz
International cooperation on operational management of water resources integrated river basin level Illustrated by three case studies : EPTB Durance, Loire and Aude Catherine Gremillet + other members	What Motivated Disaster Recovery Actions of Rural Households Affected by the Gorkha Earthquake in Nepal? Application of Bayesian Survival Analysis Hitomu Kotani, / Riki Honda	Com2SiCa, How people react to a major disaster ? Alice Connault, / Edwige Dubos-Paillard, /Damienne Provitolo, /Consortium Com2SiCa	Strong Ground Motion and Human Behavior: Using the "Did You Feel It?" Data to Assess Behavioral Response to Earthquakes James D. Goltz/Hyejeong Park/Genta Nakano/Katsuya Yamori
	Action research on disaster prevention education using ICT in Japan and China Lin,Y.. / Atsumi,T.	Good Practices in Local Community Disaster Response Hyejeong PARK, /Ana Maria CRUZ-NARANJO, /Yuko ARAKI, /Nobuhito OTSU	Comparative Analyses of Human Behavioral Response to the Nepal Earthquake of 2015 and the Mexico Earthquake of 2017 Genta Nakano/James D. Goltz/Hyejeong Park/Katsuya Yamori
	Araise awareness to extreme flood events in a context of lack of risk culture. The development of ORRION and CREDO-CRUE tools in the Rhine Graben (France – Germany – Switzerland) Brice MARTIN, /Benjamin FURST, /Florie GIACONA, /Rüdiger GLASER, /Iso HIMMELSBACH, /Johannes SCHONBEIN, /Teva MEYER, /Annette BOSSMEIER	A perspective of community-based disaster risk reduction: building pilot resilient communities in China Wei Xu, /Xinhang Zhang,/ Lianjie Qin, /Peijun Shi	Comparative Analyses of Human Behavioral Response to the Virginia (US) Earthquake of 2011 and the Oklahoma Earthquake of 2016 Hyejeong Park/James D. Goltz/Genta Nakano/Katsuya Yamori
	Anticipating local disaster cultures in early warning Jeroen Warner	Consider disaster management within a different context of the members in local community ~Case Study from the Support Group "Ciranda no Kai" in Japan~ Reiko HODA, / Tomohide ATSUMI	How residents Respond to Earthquake Early Warnings: An Empirical Study of the Effectiveness of EEW's in Japan Kazuya Nakayachi
			Developing an Effective Communication, Education, and Outreach Program for the ShakeAlert Earthquake Early Warning System for the US West Coast: Lessons Learned from the First Phase of System Operations Robert deGroot

16:00-16:10 — Break

16:10-17:40

Amphi	Room B	Room C	Room D
special session	special session	special session	**Interactive Session D 3-5 "Insurance and economical mechanisms"** **Chair:** Angeli Medina
			Making an Inclusive District Disaster Management Plan Tomohide ATSUMI, / Yuko ISHIZUKA
			Impact of path optimization on vehicle emissions under adverse weather Mingkong Zhang, /Xiaobing Hu,/ Jingai Wang
			Threats associated with the dams failure in Lithuania Gintaras Valiuškevičius, / Gintautas Stankūnavičius
			The Integration of Volunteerism in Healthcare Disaster Risk Management Angeli Medina

17:50 — Closing Session