Conference program



7th International Conference in Risk Analysis and Crisis Response

Risk Analysis Based on Data and Crisis Response Beyond Knowledge, 15-19 October, 2019, Athens, Greece





Abbreviation	Topics
ARS	Applying risk science based on data
SE	Stakeholder engagement to manage risks
RS	Reliability and safety in industrial systems
MT	Modern trends in crisis management
IOI	Internet of Intelligences and risk radar
Nano	Nanotechnology safety
Tran	Safety in transport domain
OHS	Progress in occupational health and safety
NaTech	Natural hazards inducing technique accidents
HFIE	Human factors in the industrial environment
LAs	Legal aspects in major accidents prevention
Belt&Road	Disaster risks in line with "Belt and Road"
PIF	Risk analysis in project investment and finance
Black-swan	Risk analysis related to black-swan events
Terrorist	Terrorist attack and crisis response

	Tuesday, 15 October 2019
6:00:00 PM - 8:00:00 PM	Registration - Welcome Drink

Conference Program

	Wednesday, 16 October 2019
9:00:00 AM -	Opening - Welcoming
9:15:00 AM 9:15:00 AM -	
9:30:00 AM	Greetings Dr. Athanassios Stubos, Director, NCSR "Demokritos", Greece
	Dr. Artemis Galani, General Secretariat for Civil Protection, Greece
9:30:00 AM -	Plenary speech
10:00:00 AM	"Black swans and dragons"
	Prof. Ben Ale
10:00:00 AM -	Chair session: Prof. Ben Ale
11:15:00 AM	Equity measurement of spatial layout for emergency shelter with consideration of the needs of vulnerable
	population
T	Qiang Li, Jing Guo, Xiaoyue Tan, Jin Chen
Session 1	Pool Fire of liquefied natural gas Mattia Carboni, Valerio Cozzani, Tommaso Iannaccone, Gianmaria Pio, Ernesto Salzano
ess	Review of risk assessment guidelines for LNG ship bunkering
Ň	Olga Aneziris, Ioanna Koromila, Zoe Nivolianitou
	Developing a risk-based method for predicting the severity of fire accidents in road tunnels
	Panagiotis Ntzeremes, Konstantinos Kirytopoulos, Vrassidas Leopoulos Risk-based Fault Assessment and Priority Analysis for Safety Management in Industrial Systems
	Guozheng Song, Faisal Khan, Nicola Paltrinieri
11:15:00 AM - 11:45:00 AM	Coffee Break
11:45:00 AM - 1:00:00 PM	Chair session: Prof. Ioannis Dokas
	Study on system testing approach-based risk evaluation of subsea tree
	Xiaobing Yuan, Baoping Cai, Guoming Chen
7	A fuzzy extension to the risk situation awareness provision indicator (RiskSOAP) Apostolos Zeleskidis, Ioannis Dokas
Session 2	Mass notification for public safety: current status and technical challenges
ISSa	Christodoulos Asiminidis, Sotirios Kontogiannis, George Kokkonis, Nicholaos Zinas, Charis Papadopoulos
Š	Using game theory for deployment of security forces in response to multiple coordinated attacks Cheng-Kuang Wu
	Quantitative analysis and risk assessment of terrorist attacks
	Mei Hong, Ren Zhang, Jingjing Ge, Ming Li, Liang Zhao
1:00:00 PM - 2:00:00 PM	Lunch Break
2:00:00 PM - 3:30:00 PM	Chair session: Dr.Cheng-Kuang Wu
	Farmers' risk perception and its impact on climate change adaptation behavior
	Jianjun Jin, Rui He, Xinyu Wan, Foyuan Kuang, Jing Ning, Yuhai Wang, Xia Hu Swarm of UAVs as an emergency response technology
	llias Gkotsis, Agavi-Christina Kousouraki, George Eftychidis, Panayiotis Kolios, Maria Terzi
13	Development of agricultural risk management system in Japan and enlightenment to China
sio	Yueqin Wang, Sijian Zhao
Session 3	Stakeholders' engagement in emergency management – An overview from the Danish offshore wind sector Dewan Ahsan, Soren Pedersen
-1	An empirical study on risk perception of hazardous chemical
	Tiezhong Liu, Jinyang Dong, Yan Chen, Hubo Zhang
	Modeling of Scientific Collaboration Network of Megaprojects Based on Risk Analysis Jinyang Dong, Tiezhong Liu, Zhixiang Li
3:30:00 PM -	Coffee Break
4:00:00 PM 4:00:00 PM -	Chair session: Prof. Aiwen Liu
5:30:00 PM	Risk analysis of seismic hazard correlation between nuclear power plants
	Qing Wu
	Impact factor selection and nonlinear assessment model for extreme disaster losses caused by typhoons
Session 4	Hexiang Liu, Qingjuan Xu, Jianwei Chen Research on risk assessment methods of urban disaster chain during the Beijing Winter Olympics
	Research on risk assessment methods of urban disaster chain during the Beijing Winter Olympics Mengting Liu, Wei Zhu, Jianchun Zheng, Qiuju You
	Gephi network analysis method for determining assessment indexes of extreme high temperature weather
	risk about electric power system — a case study of Beijing City
	Chunming Shen, Wei Zhu, Liping Xu, Xiru Tang, Jianchun Zheng, Shunquan Yuan Entropy based multi-criteria evaluation for rainfall monitoring networks under seasonal effect
	Entropy based multi-criteria evaluation for rainfail monitoring networks under seasonal effect Heshu Li, Dong Wang, Yuankun Wang
	Hesnu Li, Dong Wang, Yuankun Wang



Conference Program

	Thursday, 17 October 2019
9:30:00 AM -	Plenary speech
10:00:00 AM	"Human Behaviors in Emergency: Panic in Disasters in China"
	Prof. Shoji TSUCHIDA
10:00:00 AM - 11:15:00 AM	Chair session: Prof. Shoji TSUCHIDA
Session 1	A new economic loss assessment system for urban severe rainfall and flooding disasters Xianhua Wu, Ji Guo, Guo Wei
	Mutual information-based approach for vine copula selection for hydrological dependence modeling Lingling Ni, Dong Wang, Jianfeng Wu
	Assessing the joint dependence of air-water temperature and discharge-water temperature in the middle reach of Yangtze River using POME-copula Yuwei Tao, Yuankun Wang, Dong Wang
Š	Temporal and spatial dynamic characteristics analysis of Inner Mongolia grassland fire Duwala Yushan, Guixiang, Liu Hongyan, Zhang Huijuan, Liu Wunitu
	Influence factors analysis of tornado-destroyed houses in Funing, Jiangsu, China Jingyi Gao, Peng Qiao, Guofang Zhai, Dalin Cheng
11:15:00 AM - 11:45:00 AM	Coffee Break
11:45:00 AM - 1:00:00 PM	Chair session: Prof. Guofang Zhai
	Human health risk assessment via groundwater DNAPLs migration model Yue Pan, Xiankui Zeng, Jichun Wu, Dong Wang
~	Responds of Paramecium caudatum to the stress of tetracycline and tetracycline hydrochloride Minglei Du, Ye Zhao, Xiang Wang, Weibin Zheng, Chang Ge, Ying Chen, Yawen Fan
Session 2	Correlation study of safety and emergency management information systems based on social network analysis Yi Zhou, Xuewei Ji, Aizhi Wu, Fucai Yu, Yonghua Han, Liping Fang, Yanyan Zhang
Se	Analysis of factors affecting construction safety management of steel structures Angi Lu, Qian Wu, Na Li, Xin Hu
	Unsafe behavior causation analysis of hazardous chemicals accidents based on BN-HFACs method Xiaowei Li, Tiezhong Liu
1:00:00 PM - 2:00:00 PM	Lunch Break
2:00:00 PM - 3:30:00 PM	Chair session: Prof. N. Ventikos
	Driving factors affecting investment risk in international infrastructure construction focusing on Southeastern Asia
	Ting Yuan, Pengcheng Xiang, Qianman Zhang, Zhaoying Ye, Jianbin Zhang Analysis of compliance risks in overseas infrastructure projects under the Belt and Road Initiative
ß	Zhaoying Ye, Pengcheng Xiang, Wenwu Xiang, Feng Jin, Sanshan Wei Social network analysis of the relationship between risks of overseas high-speed rail projects
Session 3	Jianbin Zhang, Pengcheng Xiang, Ting Yun, Mingming Hu Contagion effect of associated credit risk in supply chain based on dual-channel financing Xiaofeng Xie, Yang Yang, Jing Gu, Qian Qian, Zongfang Zhou
Ses	Risk Analysis for Non-Accidental Structural Failures of RoPax Vessels Nikolaos P. Ventikos, Panagiotis Sotiralis, Konstantinos Louzis, Marios Kikkis
	Regional differences between climate changes and economic development in China in the historical and the future period
	Wei Gu, Kou Bai
	Effects of major hurricanes in Atlantic Canada from 2003 to 2018 Luana Souza Almeida, Floris Goerlandt, Ronald Pelot
3:45:00 PM -	Coffee Break
4:15:00 PM 4:15:00 PM -	Chair session: Xiaolong Wang
5:30:00 PM	Source attributed QALYs lost induced by PM2.5-bound PAHs in Beijing based on PMF model
	Hongbin Cao, Sihong Chao, Jianwei Liu, Yanjiao Chen, Xuemin Liu 3-D simulation and visualization of diversion flood risk in small and medium-sized flood storage polder: a case study of Linan flood storage polder in Dongting Lake Area, China
n 4	Dehua Mao, Chang Feng, Ruizhi Guo
Session 4	Risk factors analysis for falls among the urban elderly in Beijing, China Qiujie Zhang, Wei Zhu, Lugang Guo
Se	Global heat wave hazard considering humidity effects under greenhouse gas emission scenarios Ning Li, Xi Chen, Wei Gu
	An approach to measure interaction in precipitation system under changing environment Wenqi Wang, Dong Wang, Yuankun Wang
	Dinner*

Color legend of topics Tran OHS NaTech

HFIE

LAs

Belt&Road

PIF



ARS SE

RS

101

Nano

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Black-swan

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	Friday, 18 October 2019
9:30:00 AM -	Plenary speech
10:00:00 AM	"Study on validity of geospatial information diffusion"
	Prof. Chongfu Huang
10:00:00 AM -	Chair session: Prof. Hongbin Cao
11:15:00 AM	Improvement of risk communication in Internet of intelligences
	Rundong Wang, Chongfu Huang
	An approach to comply the geospatial information diffusion filling in gap units in Internet of intelligences for
7	emergency rescue
u 0	<i>Yiran Yin, Chongfu Huang</i> A Python approach to collect disaster data serving for the Internet of intelligences
Session 1	Wen Tian, Chongfu Huang
Ses	The toxic effect of two types of nanoparticles on Pseudourostyla cristata Xiaohuan Zhao, Zhiwei Gong, Yang Lv, Xilei Gao, Xinpeng Fan, Bing Ni
	Lack of coordination in communication field, between scientific society and authorities during earthquakes-
	Case study of L' Aquila in Italy
11:15:00 AM -	Ploutarchos Kerpelis, Aspasia Karamanou
11:45:00 AM	Coffee Break
11:45:00 AM - 1:00:00 PM	Chair session: Dr. A. Paralikas
	Plenary speech
	"Marie Skłodowska-Curie Actions (MSCA) : Programme overview and opportunities 2020"
	Dr. A. Paralikas
2	Streamflow forecasting using long short-term memory network Lingling Ni, Dong Wang, Jianfeng Wu
Session 2	Hydrometric network design based on Copula and entropy
ess	Wenqi Wang, Dong Wang, Yuankun Wang
Š	A Copula approach for multi-dimensional ecological risk assessment of polycyclic aromatic hydrocarbons
	(PAHs) in the surface sediments of Taihu Lake Wenyue Liu, Dong Wang
	Return period analysis for extreme rainfall in western region of Taihu Lake Basin
	Yuwei Tao, Yuankun Wang, Dong Wang, Dong Sheng
1:00:00 PM - 2:00:00 PM	Lunch Break
2:00:00 PM - 3:30:00 PM	Chair session: Prof. Wei Zhu
	Developing a transinformation based multi-criteria optimization framework for rainfall monitoring networks
	Heshu Li, Dong Wang, Yuankun Wang Comparative study on seismic risk of buildings in Chinese Tibet and Nepal
	Comparative study on seismic risk of buildings in Chinese riber and Nepar Changlong Li, Hongshan Lu
ŝ	The uncertainty research of near-field ground motion numerical simulation of Tonghai earthquake
ion	Zongchao Li, Qiao Sen, Xueliang Chen, Qing Wu, Changlong Li
Session 3	Seismic safety analysis of gas pipeline crossing through the Kezil thrust fault
S	Long Wang, Yiyuan Cao, Aiwen Liu Risk of photovoltaic system on the building fire safety in China
	Yangyang Mu, Jin Li, Changxing Ren, Wang Zhang, Xin Zhang
	Mexico city's residents experience during the two strong earthquakes in 2017
3:30:00 PM -	Jaime Santos-Reyes, Tatiana Gouzeva
4:00:00 PM	Coffee Break
4:00:00 PM - 5:00:00 PM	Chair session: Prof. K. Sapountzaki
Session 4	Rupture direction study of two Tonghai Ms5.0 earthquakes on August 13 and 14, 2018 Xueliang Chen, Quanbo Luo, Mengtan Gao, Sen Qiao, Shicheng Li, Jianwen Cui
	Risk analysis and preliminary countermeasures of earthquake disasters in Yunnan region Sen Qiao, Aiwen Liu, Xueliang Chen, Zongchao Li, Changlong Li, Tiefei Li
	A natural environment risk assessment for ship navigation on the 21st-century Maritime Silk Road Xin Li, Ren Zhang, Yang Lu, Ju Wang, Lizhi Yang
	Risk governance challenges in the Greek search and rescue region
	Athanasios Liaropoulos, Kalliopi Sapountzaki, Zoe Nivolianitou
	Acropolis Museum Tour*
	*Instructions and details about the location and time, will be released during the conference
8::00:00 AM -	Saturday, 19 October 2019



SE

OHS NaTech RS 101 Tran HFIE Belt&Road Nano LAs 7th International Conference in Risk Analysis and Crisis Response



Black-swan

PIF

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Color legend of topics