

TIEMS 2019 Annual Conference Preliminary Program Overview

(Keynotes & submitted abstracts & Workshops 05.08.2019)

Keynote Speakers

- Kåre Harald Drager, Norway,
“Emergency Management around the World - Challenges and Lessons Learned”
- Dr. Sangseom Jeong; Korea,
“Adaptation technology of infrastructure under climate change”
- Dr. Sangjun Im; Korea,
“Engineering Design Considerations for Small Debris-Flow Mitigation Structures”
- Dr. Ja-Yeong Gu; Korea,
“Current status and tasks of marine disasters management in Korea”
- Dr. Seok Hong Lee; Korea,
“Safety Issues in Construction Market Facing Industry 4.0.”
- Mr. Mare Lo and Dr. Josef Leitmann; USA,
“Public Safety: The State of Civil Protection Around the World”
- Bent - Ove Jamtli; Norway,
“Search and Rescue (SAR) in the Arctic, Status and Challenges”
- Thomas Robertson, USA,
“Emergency Benefits and Risks of Artificial Intelligence”

Submitted Abstracts

1	Snježana Knezić and Martina Baučić	Croatia	Social media based emergency decision support system
2	Sandro Bologna	Italy	A set of Good Practices and Recommendations for Smart City Resilience Engineering and Evaluation
3	Alex Fullick	Canada	Reduce Fear - Increase Resiliency

4	Jaewon Shim, Jiyoung Rhee, Taesun Chang and Nagyoung Kim	Korea	Simulation and Test on Explosion Resistance of Tunnel Lining Concrete using 3D-AUTODYN and Shock Tube
5	Bijia Zhang, Shufeng Xi, Yuyang Liu and Yuanyuan Jiao	China	Natural Disaster Prevention and Mitigation System Based on Disaster Investigation and Assessment
6	Jiyoung Rhee, Jaewon Shim, Taesun Chang and Nagyoung Kim	Korea	Fire Safety Plan at Occupation Areas under Bridge to Minimize Fire Damage on Bridge
7	Dai Quoc Tran, Minsoo Park, Vu Tuan Tran, Dae-Kyo Jung and Seunghee Park	Korea	A Survey on Machine Learning Approaches for Natural Disaster Management System
8	Ji Yoon Lee and Jung Eun Kang	Korea	Risk Assessment of sea level rise due to climate change using GIS: The case of Busan, Korea
9	Kim Dong Heon, Lim Sehun, Jeong Kyungok and Lee Dongeun	Korea	Applying the perspective of regional competitiveness of urban resilience A Study on Improvement of life safety Index
10	Ji Hye Ha and Jung Eun Kang	Korea	A study on Flood Prediction model in Busan Using Machine Learning
11	Vu Tuan Tran, Jihyun Lee, Junghyun Im, Dae-Kyo Jung and Seunghee Park	Korea	A conceptual framework for an intelligence natural disaster management system
12	Gi Hwan Kwon, Jeong Rim Oh, Young Jin Son, Jun Hyung Park and Min Jung Kim	Korea	A Study on the Professional Development Plan for disaster and safety management in Korea
13	Zhang Shifu, Xie Changhua, Mao Yuwen, Deng Xianyi, Zhang Dongmei and Li Cunjing	China	Development and application for mobile emergency drainage system in urban flood rescue

14	Zhang Shifu, Mao Yuwen, Xie Changhua and Hu Yongpan	China	First Response Mechanism and Support Technology in Highway Traffic Emergency Resume Process
15	Mao Yuwen, Hu Yongpan and Qin Tingxin	China	Development of disaster analysis and rescue treatment standard in plateau and ultra cold area of China
16	Hui Jiang, Guanqun Wen and Zhenxiong Wang	China	The influence of Conscientiousness on Team Performance among Emergency Rescue Teams: The role of Shared Mental Model, Shared Situation Awareness and Intrinsic motivation
17	Siviwe Shwababa, Rennifer Madondo and Roman Tandlich	South Africa	Assessing the impact of drought and wild fires among land reform beneficiaries farms in South Africa.
18	Roman Tandlich and Gbenga Morenikeji	South Africa and Nigeria	TIEMS in Africa: chapters and the way forward on the continent
19	Inese Barbare	Latvia	The impact of the project ONBOARDMED on development of study courses in maritime emergency management
20	Moonhyun Hong and Sangseom Jeong	Korea	Geodisaster-induced landslides and debris flows in Region scale area

Workshops

- **Workshop 1:** Chaired by Dr. Yong Jai Lee, Korea

ICT Practices on Disaster management

Case Studies related to IoT/smart factory, Cloud service, Big Data analysis, A R/VR will be introduced. It is expected that 4-5 Korean companies will present. Q&A and Discussions

- **Workshop 2: Chaired by Dr. Sandro Bologna, Italy**

TIEMS International Certification - TQC

An update of the TQC concept, TQC functional requirements and implementation of TQC software platform - experience and further plans. Q&A and Discussions.

- **Workshop 3: Chaired by Dr. Guosheng Qu, China**

Comprehensive Disaster Reduction, Preparedness, Emergency Response and Recovery

The workshop will address: Comprehensive Disaster Risk Assessment, Monitoring/Sensory and Early Warning for Comprehensive Disasters, Capacity Assessment of Emergency Preparedness of Comprehensive Disaster, Improvements of Regional Resilience, Emergency Response and Rescue: Capacity Buildings of Comprehensive Rescue for Various Disasters (Water/Flooding, Mountains, USARs, Aviation, Wildfire etc), Disaster Recovery.

- **Workshop 4: Chaired by Mr. Yang Wenlong and Dr. Zhang Qiang, China**

Emergency Management and Techniques Courses System and Scenario Simulation Infrastructures for Education, Training and Exercise

The workshop will address: Advanced Concepts and Developments of Emergency Management and Techniques, Emergency Management and Techniques Courses System, Scenario Simulation Infrastructures for Education, Training and Exercise, Education, Training and Exercise Courses for Emergency Management and Emergency Industry.