

The International Symposium on New Paradigm for Damage Estimation of Natural Disasters (MCM, FLEMO, Hazus-MH)

Date April 25, 2019

Venue

The-K Hotel Seoul(70, Baumoe-ro 12-gil, Seocho-gu, Seoul,
Republic of Korea)

Hosted by

Inha University, University of Exeter, GFZ German Research
Centre for Geoscience, Hazus Flood Model Developer

Supported by

Ministry of the Interior and Safety (MOIS)

WELCOME MESSAGES

Welcome to the International Symposium sharing the research results of MOIS R&D “Methodology Development for the Estimation and Prediction of Direct and Indirect Damages/Losses from Flood and Wind Disasters” and advanced research results in developed country. Under the theme “New paradigm for damage estimation of natural disasters”, the symposium aims to provide proper methodology for damage estimation on natural disasters such as heavy rainfall and typhoon. For this, we invite experts on damage estimation models such as MCM, FLEMO and Hazus-MH(developed in UK, Germany and USA) to discuss advanced damage estimation methodology.

2019. 03. Inha University **Hung Soo Kim**



Prof. Hung Soo Kim



Affiliation

Inha University

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Research field

Climate change, Chaos, Natural hazard,
Hydrologic modelling, Wetlands

Prof. Slobodan Djordjevic



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Research field

Hydraulic modelling, Flood risk management,
Flood resilience, Climate change adaptation

Mr. Nikolay Todorov



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Hazus Flood Model Developer

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Research field

Flood modelling, Catastrophe modelling

Dr. Albert S. Chen



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Research field

Urban drainage, Numerical modelling,
Flood damage and impact assessment, Risk
management, Adaptation strategies and flood
resilience

Dr. Patric Kellermann



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GFZ German Research Centre for Geoscience,
University of Potsdam

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Research field

Flood risk modeling

Dr. Kyungtak Kim



Affiliation

KICT (Korea Institute of Civil Engineering and Building Technology)

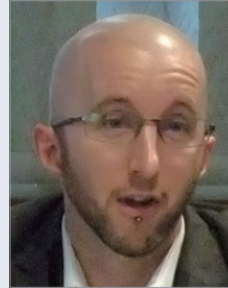
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Research field

Rainfall-Runoff model, Flood hazard map, GIS, Remote sensing, Risk analysis, Data science

Dr. Barry Evans



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Research field

GIS, Flood risk modelling, Urban resilience, System dynamic modelling

Dr. Lydia Vamvakeridou-Lyroudia



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Research field

Computer modelling, Artificial intelligence, Fuzzy logic, Genetic algorithms, Water supply/distribution and irrigation systems, Optimisation, Expert systems, Real-Time models and decision support systems

Dr. Euiho Hwang



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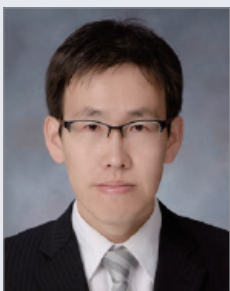
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Research field

Water related disaster, Water resources satellite

Prof. Soojun Kim



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Research field

Climate system, Disaster risk management, Flood warning, Decision making

Dr. Dongmin Yang



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Research field

Disaster forecast, Disaster statistics, Disaster risk assessment

Ms. Nivedita Sairam



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Research field

Probabilistic flood loss modelling, Vulnerability analysis

Mr. Changhyun Choi



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Research field

Damage prediction function, Statistical hydrology, Rainfall-Runoff model, Risk analysis, Data science

MAJOR EVENTS

- Arrival & Welcome Dinner (April 24, 2019)
- International Symposium & Reception (April 25, 2019)

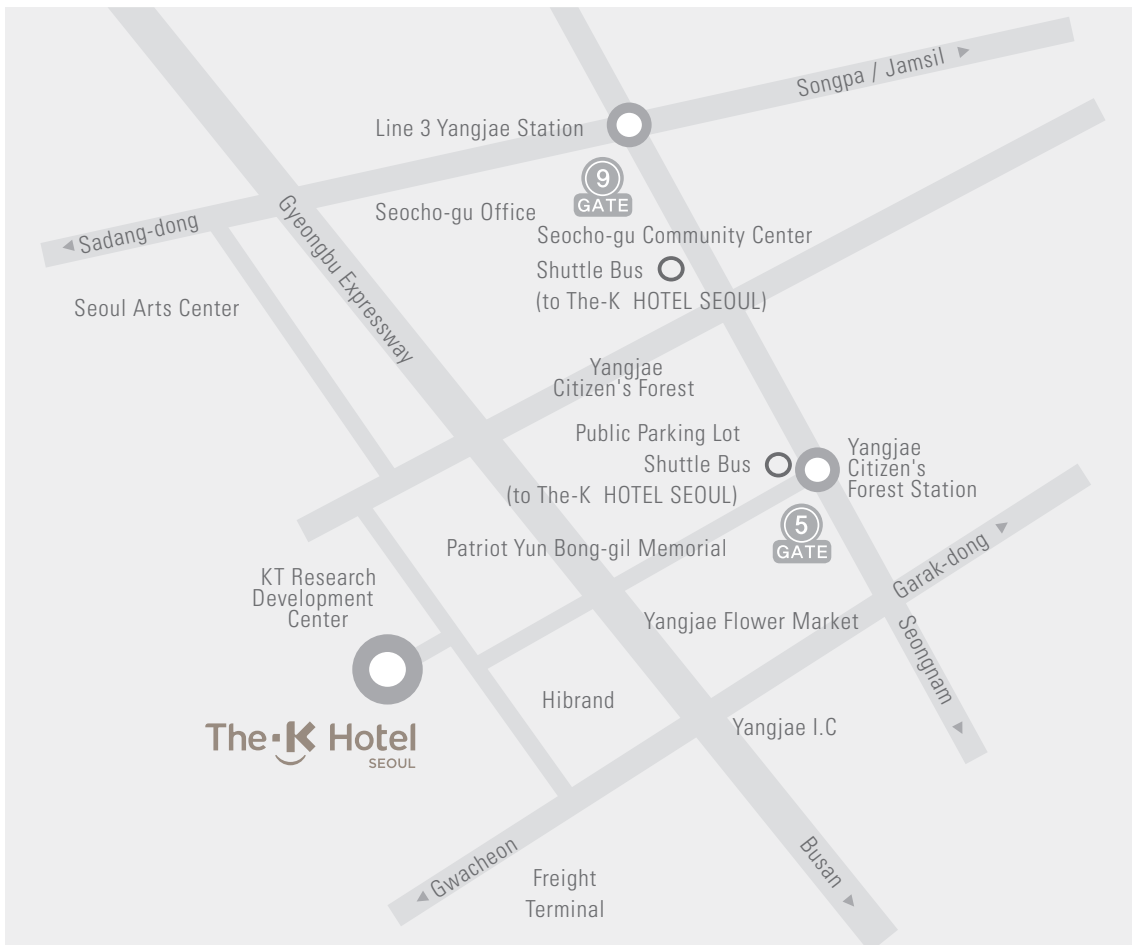
DETAILED PROGRAM OF THE SYMPOSIUM (April 25, 2019)

★ English/Korean Simultaneous interpretation service available

Time	Program
Opening (Chair : Prof. Gunhui Chung)	
09:00~09:30	Registration
09:30~09:35	Opening address : Prof. Hung Soo Kim, Inha University
09:35~09:45	Congratulatory message : Gyejo Kim, MOIS(Ministry of the Interior and Safety)
09:45~09:50	Photo
1st Session (Session Chair : Prof. Tae-Woong Kim)	
09:50~10:05	Title : On methodology development for damage estimation and prediction Presenter : [Korea] Prof. Hung Soo Kim, Inha University
10:05~10:20	Title : Constructing of national basic statistics for disaster information Presenter : [Korea] Dr. Dongmin Yang, NOAA SNC Co., Ltd
10:20~10:45	Title : Estimating flood resilience of transportation networks using limited data Presenter : [UK] Dr. Barry Evans, Centre for Water Systems, University of Exeter
10:45~11:00	Title : Development of damage prediction function based on disaster statistics Presenter : [Korea] Mr. Changyun Choi, Inha University
11:00~11:25	Title : Analysing flood hazard impact on critical infrastructure and services Presenter : [UK] Dr. Lydia Vamvakeridou-Lyroudia, Centre for Water Systems, University of Exeter
11:25~11:50	1st Session Discussions (Panel Discussion Chair : Dr. Albert Chen)
11:50~13:00	Lunch Break

Time	Program
2nd Session (Session Chair : Prof. Soojun Kim)	
13:00~13:25	<p>Title : Large-scale flood risk assessment using a coupled model chain – the regional flood model for Germany</p> <p>Presenter : [Germany] Dr. Patric Kellermann, GFZ German Research Centre for Geoscience, University of Potsdam</p>
13:25~13:50	<p>Title : Development of flood damage and Losses assessment model in Korea on private properties</p> <p>Presenter : [Korea] Dr. Kyungtak Kim, KICT (Korea Institute of Civil engineering and building Technology)</p>
13:50~14:40	<p>Title : Hazus flood model overview</p> <p>Presenter : [USA] Mr. Nikolay Todorov, Hazus Flood Model Developer</p>
14:40~15:05	<p>Title : Flood damage assessment for mega city using MCM</p> <p>Presenter : [UK] Dr. Albert Chen, Centre for Water Systems, University of Exeter</p>
15:05~15:30	2nd Session Discussions (Panel Discussion Chair : Prof. Hung Soo Kim)
15:30~15:45	Coffee Break
3rd Session (Session Chair : Prof. Gunhui Chung)	
15:45~16:00	<p>Title : Development of hazard mapping for damaged from flood</p> <p>Presenter : [Korea] Dr. Euiho Hwang, K-Water Convergence Institute</p>
16:00~16:25	<p>Title : Hierarchical bayesian approach for transfer ability of flood loss models - European case study</p> <p>Presenter : [Germany] Ms. Nivedita Sairam, GFZ German Research Centre for Geoscience, University of Potsdam</p>
16:25~16:50	<p>Title : Impacts of flooding on human health</p> <p>Presenter : [UK] Prof. Slobodan Djordjevic, Centre for Water Systems, University of Exeter</p>
16:50~17:05	<p>Title : Development of decision method for investment priority of disaster prevention project</p> <p>Presenter : [Korea] Prof. Soojun Kim, Inha University</p>
17:05~17:30	3rd Session Discussions (Panel Discussion Chair : Prof. Slobodan Djordjevic)
17:30~17:50	Overall Discussion (Chair : Prof. Hung Soo Kim)
17:50~18:00	Closing Remarks
18:00~19:30	Reception

LOCATION



Trails

Yangjae Citizens' Forest 0.5km (5 minutes)
 Yangjaecheon 0.5 km (5 minutes)
 Seocho Culture & Art Park 0.2km (3 minutes)



Bus

General blue bus
 405A, 045B, 408, 421, 140, 470, 441
 AT Center, Yangjae Flower Market Get off
 at the bus stop (5 minutes on foot)
 Town Bus (#80)
 No. 11 Exit at Yangjae Station of Line 3
 Get off at the back door of the hotel



Subway

No. 5 Exit at Yangjae Citizen's Forest Station of Sinbundang Line
 (5 minutes on foot/Board the Shuttle Bus at the other
 side of the Public Parking lot)
 No. 9 Exit at Yangjae Station of Line 3
 (Take the shuttle bus in front of Seocho-gu Community Center)



Airport Bus

Airport Limousine Bus #6500
 Transport between Hotel and Incheon Airport
 Platform 5A, 11B at Incheon Airport
 Departure from Hotel 07:00 / 11:00 / 15:00 / 19:00
 Departure from Airport 09:20 / 13:20 / 17:20 / 21:20