

PARALLEL SESSION 1:  
**URBAN SAFETY & DISASTER MITIGATION /  
TYPHOON HAIYAN RECOVERY & RECONSTRUCTION – 1**

Venue: Room A

Date/Time: 7 November, 2016 Monday / 13:20-15:00

Session Chairs: **Dr. Eulito V. Casas / Dr. Muneyoshi Numada**

1. Resiliency and recovery among Typhoon Haiyan business establishments survivors in Tacloban City  
**Anita G. Cular**
2. Visualization of panic situations after an earthquake in CBDs of Tokyo, Japan  
**Yuto Tokumitsu and Takaaki Kato**
3. Efforts to design wastewater treatment systems for Tacloban North relocation sites  
**Shaye Palagi, Ted Jopson and Amy Javernick-Will**
4. Investigating on evacuation behavior during urban fire from earthquake using virtual reality  
**Daikichi Kobayashi, Takaaki Kato, Dai Kawahara and Taichi Shimura**
5. Tracking government support to Yolanda stricken Leyte and Samar  
**Amy Joan Exconde**
6. Development of comprehensive disaster management matrix for better decision-making and consecutive management on disaster mitigation  
**Masashi Inoue and Kimiro Meguro**
7. The Katatagan resilience program: A psychosocial intervention for disaster survivors  
**Querima Deborah Jopson**
8. State and non-state actors as agents of human security and resilience? Three localities in Leyte after Yolanda  
**Maria Ela L. Atienza, Clarinda L. Berja and Jan Robert R. Go**
9. Seismic retrofit of RC frame building with infill masonry wall by interface materials between frame and wall, and PP-band mesh  
**Kimiro Meguro and Yashdev Patel**

PARALLEL SESSION 2:  
**INFRASTRUCTURE MANAGEMENT- 1**

Venue: Room B

Date/Time: 7 November, 2016 Monday / 13:20-15:00

Session Chairs: **Arch. Danilo M. Fuentesbella / Dr. Kohei Nagai**

1. Introduction of IT technology into maintenance work of subway tunnel wall-to-floor area ratios of masonry school buildings  
**Shinji Konishi, Takanori Miura, Yuki Enokidani and Mitsuhiro Kawabata**
2. Web application to monitor the safety of glass panel in buildings subjected to out-of-plane wind loading and in-plane seismic forces  
**Ayan Srivastava, Swajit Singh Goud and Pradeep K Ramancharla**
3. Air entrapment-induced failure in relation to soil particle size and air entry value  
**Leah Musenero and Reiko Kuwano**
4. Understanding secondary damages due to non-structural elements in High-rise Buildings  
**Ramya Gullapalli and Pradeep K Ramancharla**
5. A fundamental study on influences of form shape on chloride penetration of mortar  
**Kazuaki Nishimura, Katsuya Mita and Yoshitaka Kato**
6. Identification and localization of damage in buildings using modal analysis  
**Chaitanya Krishna Gadagamma, Hideomi Gokon and Kimiro Meguro**
7. Optimal scheduling model for road maintenance by city government  
**Yudai Honma**
8. Innovative management system for maintenance of infrastructures by GIS and point cloud data  
**Hiroshi Dobashi and Kazuhiro Tsuno**
9. Causes and Remedies of Fire Risk in Old Dhaka: A case study of Islambag Area  
**Uttama Barua, B.S.Pushpendue Biswas, Mehedi Ahmed Ansary**

PARALLEL SESSION 3:

**URBAN SAFETY & DISASTER MITIGATION /  
TYPHOON HAIYAN RECOVERY & RECONSTRUCTION – 2**

Venue: Room A

Date/Time: 7 November, 2016 Monday / 15:30-17:00

Session Chairs: **Prof. Ladylyn L. Mangada / Dr. Hideomi Gokon**

1. No-build zone policy in post-Haiyan: The vulnerability of the coastal urban community of Rawis Anibong, Tacloban City  
**Donabel S. Tumandao**
2. Two-dimensional numerical analysis of fluid force effects on self-floating evacuation facility  
**Takuya Masamoto, Hideomi Gokon, Shunichi Koshimura and Kimiro Meguro**
3. Resident's seismic risk recognition and safety intention: A case of Jeddah City in Saudi Arabia  
**Md Faiz Shah, Anas Ahmed, Ahmed Al-Ghamadi and Parves Sultan** (Presented by Ahmed Alghamadi)
4. Case study about vulnerability assessment of buildings for two districts of Jeddah City in Saudi Arabia  
**Md Faiz Shah, A. Ahmed, A.A-Ghamdi, O.K. Kegeyes-B and R.P.Ray**
5. Distribution of ground motion of the 2015 Gorkha Earthquake in Nepal estimated by the damage based on the actual data buildings  
**Natsumi Hara, Kimiro Meguro and Hideomi Gokon**
6. Measures taken against damages by destructive animals in farming villages - Case study of Ishikawa Prefecture -  
**Fumiko Hagiwara, Junichi Takayama and Makoto Fujii**
7. Vulnerability analysis of urban functions for disaster situations in Yangon City  
**Yasmin Bhattacharya, Takaaki Kato and Ei Ei Tun**
8. An international comparative study on existing urban disaster prevention planning systems: How do they address climate change?  
**Jaeho Kim and Takaaki Kato**
9. Flood inundation mapping along the proposed dike system of the Cagayan de Oro River: The Sendong scale flood  
**Dexter Lo, Jan Taat, Carl Ammiel Lapure, Glenn Leandri Brylle Lamparas, Augustini Ave Paduganan and Khim Baculio**

PARALLEL SESSION 4:  
**INFRASTRUCTURE MANAGEMENT- 2**

Venue: Room B

Date/Time: 7 November, 2016 Monday / 15:30-17:00

Session Chairs: **Mr. Warren Ubongen / Dr. Koji Matsumoto**

1. Application of spatial statistics for estimation of the spatial distribution of thickness of steel sheet piles  
**Yutaka Tanaka, Yuichiro Kawabata and Ema Kato**
2. A case study using rapid visual screening method to determine the vulnerability of buildings in two districts of Jeddah City, Saudi Arabia  
**Md Faiz Shah, Anas Ahmed, O.K.Kegyegs-B. A.A-Ghamdi and R.P. Ray**
3. Analytical study on vibration characteristics of five-storied pagoda with 3D analytical model considering rocking motion  
**Iuko Tsuwa, Takafumi Nakagawa and Mikio Koshihara**
4. Mesoscopic analysis of different expansion causes in concrete by 3D rigid body spring model  
**Liyanto Eddy, Anupam Awasthi, Koji Matsumoto, Kohei Nagai and Shingo Asamoto**
5. Analysis of relation between seismic damage ratio of bridges and existing damage in 2016 Kumamoto earthquake  
**Takahiro Minami, Makoto Fujiu, Shoichiro Nakayama and Jyunichi Takayama**
6. Influence of sulfate ion on chloride penetration of cement composites  
**Satoko Naomachi and Yoshitaka Kato**
7. Damage to traditional timber houses in the 2016 Kumamoto Earthquake  
**Hiromi Sato and Mikio Koshihara**
8. Hydro-dynamic residential building  
**Charlotte B. Montano and Ken Edward C. Gonzales**
9. Material analysis of fractured bolts in Ayeyarwady Bridge (Yadanarbon), Myanmar  
**Kohei Nagai, Liyanto Eddy and Yi Yi Mon**

PARALLEL SESSION 5:  
**URBAN SAFETY & DISASTER MITIGATION /  
TYPHOON HAIYAN RECOVERY & RECONSTRUCTION – 3**

Venue: Room A

Date/Time: 8 November, 2016 Tuesday / 9:00-10:30

Session Chairs: **Ms. Ma. Adelaida Mias-Cea / Dr. Takaaki Kato**

1. Examination of temporary housing supply system using vacant houses in Wakayama Prefecture  
**Hideomi Gokon, Tomofumi Ikenaga and Kimiro Meguro**
2. Increasing resilience of vulnerable communities in urban areas through innovative housing: the case of the High Density Housing (HDH) Program of the Social Housing Finance Corporation (SHFC)  
**Ma. Ana OLIVEROS**
3. People's Process in the post-disaster reconstruction after Typhoon Haiyan: Customizing a universal concept into a local context  
**Tomoko Matsushita, Warren Ubongen, Christopher Rollo**
4. Recovery and resilience in selected Typhoon Yolanda-Affected communities in the Visayas  
**Eden Garde**
5. Linking housing and school recovery post-disaster: the case of Tacloban after Typhoon Yolanda  
**Elizabeth Maly, Aiko Sakurai and Kaneko Iuchi**
6. Safety evaluation of evacuation path considering the risk of falling objects caused by aftershocks  
**Masayuki Shimizu, Kazuyuki Takada, Koji Ogino, Tomohisa Yamashita and Miho Ohara**
7. Bayanihan after Typhoon Haiyan : Are we romanticizing an indigenous coping strategy?  
**Yvonne Su, Ladylyn Lim Mangada**
8. Study on the effectiveness of bicycle use for tsunami evacuation – case study of Horikiri district in Tahara city  
**Kota Miyauchi, Kazuyuki Takada and Kentaro Ikeda**
9. Assessment of land use of Borongan City: An input to a strategic urban planning  
**Millan Almar D. Estorninos and Lyndon D. Aldaba**
10. Increasing resilience through local climate change action planning  
**Adelaida Mias-Cea**

PARALLEL SESSION 6:  
**ENVIRONMENTAL INFORMATICS**

Venue: Room B

Date/Time: 8 November, 2016 Tuesday / 9:00-10:30

Session Chairs: **Prof. Margarita Dela Cruz / Dr. Yudai Honma**

1. Analysis on the doctor car operational realities in Japan  
**Hajime Tatsuno, Jun-ichi Takayama, Shoichiro Nakayama, Makoto Fujiu and Yusuke Inada**
2. Watershed and floodplain modeling of the Bitan-ag Drainage Basin  
**Dexter Lo, Jan Taat, Sam Stephen Mangubat, Shaira Monique Baan, Jansessa Lavin and Mark Aldrich**
3. Performance investigation of HDH solar water desalination system for gulf coastal cities  
**Abdullah Salmeen Bin-Mahfouz**
4. Constrained optimum arrangement model which minimizes movement costs of residence jobs and commercial  
**Mondo Sugiyama, Yuki Munemasa and Yudai Honma**
5. Seasonal rainfall simulation over Myanmar: Uncertainty evaluation for climate change analysis  
**Ralph Allen Acierto and Akiyuki Kawasaki**
6. The enhancement of transportation capacity by the renovation work of the turn-back line between Iidabashi station and Kudanshita station on Tozai line  
**Yuji Suetomi and Takeshi Moriya**
7. PH - NOV 2013 program Haiyanda: Networking in overcoming vulnerabilities to climate change (Survivors' perspective)  
**Eulito V. Casas Jr and Petronilo Ilagan**
8. Climate change impact on the megacities of India: Mitigation and adaptation strategies  
**Shadanana Nair**
9. Community Climate Guide and Response: Saving Lives  
**Randy B. Calahi**

SESSION 7:

**URBAN SAFETY & DISASTER MITIGATION /  
TYPHOON HAIYAN RECOVERY & RECONSTRUCTION – 4**

Venue: Room A

Date/Time: 8 November, 2016 Tuesday / 11:00-12:50

Session Chairs: **Prof. Kimiro Meguro / Mr. Christopher Rollo**

1. Proposal of evidence-based flood contingency planning in Asian flood-prone area  
**Miho Ohara, Naoko Nagumo and Badri Bhakta Shrestha**
2. Assessment of Ground Water Quality and Geotechnical Properties of Waste Dump Sites of Dhaka City Using NDT  
**B. S. Pushpendue Biswas, M. Ashraf Ali and Mehedi Ahmed Ansary**
3. Document digital archiving project for government agencies in Typhoon Haiyan-affected areas  
**Noel B. Elizaga and Arvin L. De Veyra**
4. Development of new hazard map after the disaster using unmanned aerial vehicle  
**Yuki Matsuoka, Makoto Fujiu, Shoichiro Nakayama and Jyunichi Takayama**
5. Development and deployment of multipurpose survival communication network in Typhoon Haiyan-affected areas  
**Noel B. Elizaga, Vince Noel C. Elizaga and Petronilo Ilagan**
6. Disaster response modeling based on the analysis of the past disasters for municipality  
**Muneyoshi Numada, Masashi Inoue and Kimiro Meguro**
7. Incorporating historical data in the municipal disaster risk reduction and management plans of the municipality of Culasi, Antique  
**Glaiza Ann C. Alon**
8. A Simulation of evacuation behavior for vulnerable people to disasters during large-scale earthquake ~Using national health insurance data  
**Yuya Tamamori, Makoto Fujiu, Shoichiro Nakayama, Jyunichi Takayama, Tatsuya Nishino, Kiyoko Yanagihara and Kohei Hirako**
9. Analysis of household food stocks during the large scale earthquake disaster  
**Yumiko Yoshida, Shuji Osawa, Makoto Fujiu, Shoichiro Nakayama and Jyunichi Takayama**
10. Achieving human security after a disaster: the case of the “ Haiyan” widows  
**Ladylyn Lim Mangada**
11. Proper crisis communication in national emergency, and its issues  
**Tetsuro Ito**