## Symposium Programme

**Day 1: Thursday, 22nd November 2018**

**Venue:** Campus Plaza Kyoto

<table>
<thead>
<tr>
<th>Time</th>
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<tr>
<td><strong>09:00 - 12:00</strong></td>
<td>Registration (2nd Floor)</td>
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<tr>
<td><strong>09:30 - 09:35</strong></td>
<td>Welcoming Address and Opening Ceremony officiated by Professor Kunitomo Sugiura (5th Floor)</td>
</tr>
<tr>
<td><strong>09:35 - 10:55</strong></td>
<td>Group Photo</td>
</tr>
</tbody>
</table>
| **09:55 - 10:40** | Keynote Address 1  
Title: Civil Engineering: Concept, Research and Practice |
| **10:40 – 11:00** | COFFEE BREAK                                                        |
| **11:00 – 11:45** | Keynote Address 2  
By Professor Emeritus Dr. Luh-Maan Chang  
Title: Connecting Civil Engineering to High Tech Facility |
| **11:45 – 12:30** | Keynote Address 3  
By Professor Hitoshi Furuta  
Title: New technologies and AI for maintenance of infrastructures in Japan |
| **12:30 - 13:30** | LUNCH  
(The lunch box will be provided. Participants are free to have lunch in the conference room) |
| **13:30 – 15:15** | PARALLEL TECHNICAL SESSIONS 1                                       |
| Venue & Chair  | Track 1     | Track 2       | Track 3       | Track 4    | Track 5       | Track 6       |
| Structural Engineering 1  
Prof. Haeng-Ki Lee (KAIST) | Structural Engineering 2  
Prof. Hyo-Gyeong Kwak (KAIST) | Construction Engineering 1  
Prof. Veerasak Likhitraungsilp (CU) | Geotechnical Engineering 1  
Prof. Suched Likitlersuang (CU) | Geotechnical Engineering 2  
Prof. Jiunn-Shyang Chiou (NTU) | Civil Engineering 1  
Prof. Yungchul Kim (KAIST) |
| Mr. Chang He (TU) | Mr. Xiaoming Lei (TU) | Mr. Lambada Roeun (CU) | Mr. Thanakrit Rojanachaesri (CU) | Prof. Wuwei Mao (TU) | Prof. Yung-Chung Huang (NTU) |
| **15:15 – 15:30** | COFFEE BREAK                                                        |
| **15:30 – 17:15** | PARALLEL TECHNICAL SESSIONS 2                                       |
| Venue & Chair  | Track 1     | Track 2       | Track 3       | Track 4    | Track 5       | Track 6       |
| Structural Engineering 3  
Prof. Jae-Hong Kim (KAIST) | Structural Engineering 4  
Prof. Jung-Wuk Hong (KAIST) | Construction Engineering 2  
Prof. Nakhon Kokkaew (CU) | Geotechnical Engineering 3  
Prof. Dong-Soo Kim (KAIST) | Geotechnical Engineering 4  
Prof. Louis Ge (NTU) | Civil Engineering 2  
Prof. Ser Tong Quek (NUS) |
| Mr. Junming Jiang (TU) | Prof. Chen Xu (TU) | Dr. Liguang Wang (HKUST) | Prof. Mai Sawada (KTU) | Mr. Jingkang Shi (TU) | Prof. Wen-Cheng Liao (NTU) |
| **18:00 – 20:30** | WELCOME DINNER  
Venue: Public House |
### Day 2: Friday, 23rd November 2018

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<th>Time</th>
<th>Event</th>
<th>Venue</th>
<th>Track 1</th>
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<th>Track 5</th>
<th>Track 6</th>
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<tr>
<td>9:15 – 11:00</td>
<td>PARALLEL TECHNICAL SESSIONS 3</td>
<td></td>
<td>Structural Engineering 7</td>
<td>Structural Engineering 8</td>
<td>Transportation Engineering 2</td>
<td>Geotechnical Engineering 5</td>
<td>Geotechnical Engineering 6</td>
<td>Wind Engineering 1</td>
</tr>
<tr>
<td>Chair</td>
<td>Chair</td>
<td></td>
<td>Prof. Hirotaka Kawano (KU)</td>
<td>Prof. Zuanfeng Pan (TU)</td>
<td>Prof. Jittichai Rudjana-kanoknad (CU)</td>
<td>Prof. Yoonjin Yoon (KAIST)</td>
<td>Prof. Yosuke Higo (KU)</td>
<td>Prof. Shuyang Cao (TU)</td>
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<tr>
<td></td>
<td>Co-Chair</td>
<td></td>
<td>Prof. Kai-Chun Chang (KU)</td>
<td>Prof. Aiko Furukawa (KU)</td>
<td>Mr. Jielen Liu (NUS)</td>
<td>Prof. Mei-Mei Song (NTU)</td>
<td>Mr. Tirawat Simlemkim (CU)</td>
<td>Prof. Tomomi Yagi (KU)</td>
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<tr>
<td>11:00 – 11:15</td>
<td>COFFEE BREAK</td>
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<tr>
<td>11:15 – 13:00</td>
<td>PARALLEL TECHNICAL SESSIONS 4</td>
<td></td>
<td>Structural Engineering 9</td>
<td>Structural Engineering 10</td>
<td>Transportation Engineering 3</td>
<td>Civil Engineering 3</td>
<td>Geotechnical Engineering 7</td>
<td>Wind Engineering 2</td>
</tr>
<tr>
<td>Chairs</td>
<td>Chair</td>
<td></td>
<td>Prof. Xueqing Zhang (HKUST)</td>
<td>Prof. Jet Yuen, Richard (NUS)</td>
<td>Prof. Ghim Pin Ong (NUS)</td>
<td>Prof. Sze Dai Pang (NUS)</td>
<td>Prof. Thirappong Pipatpong (KU)</td>
<td>Prof. Zhao Lin (TU)</td>
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<td></td>
<td>Co-Chair</td>
<td></td>
<td>Prof. Jiahua Yang (TU)</td>
<td>Mr. Siyuan Wu (TU)</td>
<td>Mr. Somkith Dethvongsone (CU)</td>
<td>Mr. Yuanzuo Wang (TU)</td>
<td>Mr. Min-Chien Chu (NTU)</td>
<td>Prof. Kyohei Noguchi (KU)</td>
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<tr>
<td>13:00- 14:00</td>
<td>LUNCH</td>
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<td>(The lunch box will be provided. Participants are free to have lunch in the conference room)</td>
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<tr>
<td>14:00 – 15:45</td>
<td>PARALLEL TECHNICAL SESSIONS 5</td>
<td></td>
<td>Structural Engineering 11</td>
<td>Construction Engineering 3</td>
<td>Transportation Engineering 4</td>
<td>Material Engineering 1</td>
<td>Geotechnical Engineering 8</td>
<td>Wind Engineering 3</td>
</tr>
<tr>
<td>Chairs</td>
<td>Chair</td>
<td></td>
<td>Prof. Yoshikazu Takahashi (KU)</td>
<td>Prof. Shang-Hsien Hsieh (NTU)</td>
<td>Prof. Albert Y. Chen (NTU)</td>
<td>Prof. Christina Tsai (NTU)</td>
<td>Prof. Hiyoyuki Goto (KU)</td>
<td>Prof. Tomomi Yagi (KU)</td>
</tr>
<tr>
<td></td>
<td>Co-Chairs</td>
<td></td>
<td>Mr. Cheng Qian (TU)</td>
<td>Prof. Atsushi Hattori (KU)</td>
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<td>Mr. Yuanzuo Cheng (NTU)</td>
<td>Mr. Min-Chien Chu (NTU)</td>
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<tr>
<td>15:45 – 16:00</td>
<td>COFFEE BREAK</td>
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<tr>
<td>16:00 - 17:30</td>
<td>PARALLEL TECHNICAL SESSIONS 6</td>
<td></td>
<td>Structural Engineering 11</td>
<td>Construction Engineering 3</td>
<td>Transportation Engineering 4</td>
<td>Material Engineering 2</td>
<td>Geotechnical Engineering 9</td>
<td>Civil Engineering 4</td>
</tr>
<tr>
<td>Chairs</td>
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<td></td>
<td>Prof. Yoshikazu Takahashi (KU)</td>
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<td>Prof. Albert Y. Chen (NTU)</td>
<td>Prof. Kuo-Chun Chang (NTU)</td>
<td>Prof. Taeseo Ku (NUS)</td>
<td>Prof. Yi Cai (TU)</td>
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<td>Mr. Yuanzuo Cheng (NTU)</td>
<td>Ms. Fu-Hsuan Yeh (NTU)</td>
<td>Ms. Wint Thandar (KU)</td>
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<tr>
<td>18:30 – 21:15</td>
<td>CONFERENCE BANQUET</td>
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<td>Venue: Kyoto Tower Hotel</td>
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<td></td>
<td>1. Closing Address by Professor Tomomi Yagi</td>
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<td></td>
<td>2. Best Presenter Award</td>
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</tbody>
</table>
Day 3: Thursday, 24th November 2018

TECHNICAL TOUR: Construction Site Visit & Cultural Tour

(You can check to which technical tour group you belong to during registration)

Amagase Dam

Byodoin Temple
Floor Plan Layout for Parallel Technical Session

The conference will take place in 4th and 5th floor of Campus Plaza Kyoto.

The floor plan layout for Day 1:
The floor plan layout for Day 2:
### Track 1 (13:30-15:15, November 22)
Structural Engineering 1
Track Chair: Prof. Haeng-Ki Lee
Track Co-chair: Mr. Chang He

<table>
<thead>
<tr>
<th>Paper ID</th>
<th>Paper Title</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>KU-01</td>
<td>Bridge maintenance by total management system of Aomori Prefecture</td>
<td>Eiichi WATANABE</td>
</tr>
<tr>
<td>TU-48</td>
<td>Fatigue performance of steel fiber reinforced concrete composite girder under high cycle negative bending</td>
<td>Chen XU</td>
</tr>
<tr>
<td>KU-09</td>
<td>Investigation of changes in frequency of a steel plate girder bridge due to artificial damage</td>
<td>Takuya MIMASU</td>
</tr>
<tr>
<td>TU-35</td>
<td>Aerostatic instability of long-span cable-stayed bridges</td>
<td>Cheng QIAN</td>
</tr>
<tr>
<td>KU-50</td>
<td>Seismic strengthening by unbonded bar reinforced concrete structure for rocker piers with Mesnager hinges</td>
<td>Keita UEMURA</td>
</tr>
<tr>
<td>NTU-22</td>
<td>Corrosion recognition on steel bridge case using Convolutional Neural Network</td>
<td>Su-Kai CHEN</td>
</tr>
<tr>
<td>KU-58</td>
<td>Study on evaluation of corrosion environment using Inverse Distance Weighting</td>
<td>Zabihullah RASOLI</td>
</tr>
</tbody>
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### Track 2 (13:30-15:15, November 22)
Structural Engineering 2
Track Chair: Prof. Hyo-Gyeong Kwak
Track Co-chair: Mr. Xiaoming Lei

<table>
<thead>
<tr>
<th>Paper ID</th>
<th>Paper Title</th>
<th>Presenter</th>
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</thead>
<tbody>
<tr>
<td>TU-45</td>
<td>An efficient adaptive sequential Markov chain Monte Carlo method for Bayesian system identification and damage detection</td>
<td>Jiahua YANG</td>
</tr>
<tr>
<td>KU-35</td>
<td>Surface temperature analysis of steel bridge girders for the evaluation of dew condensation</td>
<td>Hidetoshi TOKUMASU</td>
</tr>
<tr>
<td>NTU-35</td>
<td>Corrosion current measurement under different corrosion types of steel bars</td>
<td>Kuang-Chieh LIN</td>
</tr>
<tr>
<td>KU-48</td>
<td>Study on atmospheric corrosion of structural steels in delta region of Myanmar</td>
<td>Wint THANDAR</td>
</tr>
<tr>
<td>TU-16</td>
<td>Shear resistance of double-through plate connections to CFST column</td>
<td>Junming JIANG</td>
</tr>
<tr>
<td>KU-12</td>
<td>Scour detection of railway bridges based on remote vibration monitoring</td>
<td>Kazuhiro YOSHITOME</td>
</tr>
<tr>
<td>NUS-03</td>
<td>Fatigue damage prediction for offshore structures using artificial neural network</td>
<td>Ruifeng CHEN</td>
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### Track 1 (15:30-17:15, November 22)
#### Structural Engineering 3
**Track Chair:** Prof. Jae-Hong Kim  
**Track Co-chair:** Mr. Junming Jiang

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<tr>
<th>Paper ID</th>
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<tbody>
<tr>
<td>KAIST-48</td>
<td>Blast analysis of RC beams based on hysteretic moment-curvature relationship</td>
<td>Gang-Kyu PARK</td>
</tr>
<tr>
<td>NUS-02</td>
<td>Bio-char as potential mineral additive in ultra-high performance concrete</td>
<td>Anjaneya DIXIT</td>
</tr>
<tr>
<td>KU-03</td>
<td>Quantitative evaluation of fatigue crack initiation conditions by stress intensity factor considering compressive residual stress</td>
<td>Tsurumaru TAMATE</td>
</tr>
<tr>
<td>TU-32</td>
<td>Experimental study on fatigue bond behavior between concrete and deformed steel bars</td>
<td>YunPeng ZHANG</td>
</tr>
<tr>
<td>NTU-40</td>
<td>Crack detection of concrete structures based on deep learning and computer vision</td>
<td>Ying Hsieh CHENG</td>
</tr>
<tr>
<td>HKUST-08</td>
<td>Effect of tension stiffening in reinforced concrete panels subjected to shear</td>
<td>Xueying WANG</td>
</tr>
<tr>
<td>TU-20</td>
<td>Theoretical calculation on carbon fiber-reinforced polymer reinforced concrete beam using a new compression yielding material – carbon fiber-reinforced polymer confined concrete</td>
<td>Jie LUO</td>
</tr>
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### Track 2 (15:30-17:15, November 22)
#### Structural Engineering 4
**Track Chair:** Prof. Jung-Wuk Hong  
**Track Co-chair:** Prof. Chen Xu

<table>
<thead>
<tr>
<th>Paper ID</th>
<th>Paper Title</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>NTU-45</td>
<td>In-plane cyclic behavior of steel-plate composite walls with boundary elements</td>
<td>Yin-Nan HUANG</td>
</tr>
<tr>
<td>CU-14</td>
<td>Finite element modeling of punching shear behavior of high performance fiber reinforced concrete slabs considering effect of fiber orientation</td>
<td>Withit PANSUK</td>
</tr>
<tr>
<td>KU-26</td>
<td>Numerical simulation of impact phenomena of concrete slab subjected to medium speed collision by steel projectile</td>
<td>Masato GOTO</td>
</tr>
<tr>
<td>TU-43</td>
<td>Analytical solutions for wide flange I-shaped deep beam with shear effect of whole section</td>
<td>Siyuan WU</td>
</tr>
<tr>
<td>KU-56</td>
<td>Modeling of restoring force characteristics of silicone rubber-filled foundation for railway catenary pillars</td>
<td>Koji MOKUNO</td>
</tr>
<tr>
<td>KAIST-22</td>
<td>Nacre-like laminated composite structures with enhanced energy absorption capacity</td>
<td>Kwonhwan KO</td>
</tr>
<tr>
<td>NTU-41</td>
<td>A simple non-iterative method for recovering a space-dependent load on the Euler-Bernoulli beam equation</td>
<td>Wun-Sin JHAO</td>
</tr>
<tr>
<td>KU-07</td>
<td>Applying Copula Approaches in Long-Term Bridge Health Monitoring</td>
<td>Jiamin LIN</td>
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### Track 1 (09:15-11:00, November 23)
**Structural Engineering 5**  
Track Chair: Prof. Huanjun Jiang  
Track Co-chair: Prof. Withit Pansuk

<table>
<thead>
<tr>
<th>Paper ID</th>
<th>Paper Title</th>
<th>Presenter</th>
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</thead>
<tbody>
<tr>
<td>NTU-34</td>
<td>Study of influences of reduced elastic modulus on design specifications for concrete structures in Taiwan</td>
<td>You-Man LIN</td>
</tr>
<tr>
<td>KU-47</td>
<td>Assessment of buckling load of pultruded CFRP members</td>
<td>Hiroto IKUSHIMA</td>
</tr>
<tr>
<td>CU-13</td>
<td>A mixed ESO-PSO approach for optimal AISC-LRFD design of steel structures</td>
<td>Thu Huynh VAN</td>
</tr>
<tr>
<td>TU-26</td>
<td>The prestressed anti-fatigue lattice wind turbine tower</td>
<td>Yuxiao LUO</td>
</tr>
<tr>
<td>KU-11</td>
<td>A field experiment for extracting bridge characteristics utilizing drive-by bridge inspection method</td>
<td>Syunsuke NAKAJIMA</td>
</tr>
<tr>
<td>NTU-37</td>
<td>Influences of reduced elastic modulus in Taiwan on the collapse evaluation of structures</td>
<td>Wei-Sheng LIN</td>
</tr>
<tr>
<td>KAIST-12</td>
<td>Monitoring of pre-stressed concrete girder deflection using terrestrial laser scanner</td>
<td>Donggun KIM</td>
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### Track 2 (09:15-11:00, November 23)
**Structural Engineering 6**  
Track Chair: Prof. Chul-Woo Kim  
Track Co-chair: Dr. Ching-Yi Tsai

<table>
<thead>
<tr>
<th>Paper ID</th>
<th>Paper Title</th>
<th>Presenter</th>
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</thead>
<tbody>
<tr>
<td>KAIST-16</td>
<td>Improved design suggestion on a CFT column with numerical bond-slip model</td>
<td>Ju-young HWANG</td>
</tr>
<tr>
<td>KU-44</td>
<td>Study on measurement of axial force of high strength bolt</td>
<td>Tomohiro TSUJITA</td>
</tr>
<tr>
<td>TU-18</td>
<td>Experimental study on seismic performance of overlapped precast concrete wall panels jointed with distributed bolts under pure shear loadings</td>
<td>Yan WANG</td>
</tr>
<tr>
<td>NUS-05</td>
<td>Flexural behaviour of sandwich precast shear walls for prefabricated prefinished volumetric construction</td>
<td>Ziquan DAI</td>
</tr>
<tr>
<td>TU-38</td>
<td>Experimental study of compressive behavior of Q420 steel U-rib stiffened plates</td>
<td>Rui HAO</td>
</tr>
<tr>
<td>CU-24</td>
<td>Behavior of tempered glass installed with drilled type connector</td>
<td>Sopon YOSSAPONG</td>
</tr>
<tr>
<td>KU-02</td>
<td>Inspection of crack on reinforced concrete by optical imaging of ambient-induced vibration</td>
<td>Takuya MUNEOKA</td>
</tr>
<tr>
<td>NTU-42</td>
<td>Development of nano-fluid viscous damper</td>
<td>Shen-Kai PENG</td>
</tr>
</tbody>
</table>
### Track 1 (11:15-13:00, November 23)
Structural Engineering 7
Track Chair: Prof. Hirotaka Kawano
Track Co-chair: Prof. Kai-Chun Chang

<table>
<thead>
<tr>
<th>Paper ID</th>
<th>Paper Title</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>KU-42</td>
<td>Assessing the suitability of the Eurocode in relation to available standards for bridge design in Uganda</td>
<td>Daniel APENYO</td>
</tr>
<tr>
<td>TU-24</td>
<td>Influence of flange on seismic performance of 1100 kV UHV transformer bushing</td>
<td>He CHANG</td>
</tr>
<tr>
<td>NTU-29</td>
<td>Seismic performance evaluation of strengthened typical sprinkler piping systems in hospitals</td>
<td>Yung-An TSAI</td>
</tr>
<tr>
<td>KU-05</td>
<td>Parametric study on traffic-induced low frequency sound of a viaduct</td>
<td>Rongxiu CHEN</td>
</tr>
<tr>
<td>NTU-30</td>
<td>Retrofit design of structures: reduce demand by isolation system</td>
<td>Peng-Yu LIN</td>
</tr>
<tr>
<td>KAIST-25</td>
<td>Non-ordinary state-based peridynamics for three-dimensional problems</td>
<td>Suyeong JIN</td>
</tr>
<tr>
<td>TU-28</td>
<td>Replaceable composite connections with damage restricted to the angles at the bottom flange</td>
<td>Xiuzhang HE</td>
</tr>
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</table>

### Track 2 (11:15-13:00, November 23)
Structural Engineering 8
Track Chair: Prof. Zuanfeng Pan
Track Co-chair: Prof. Aiko Furukawa

<table>
<thead>
<tr>
<th>Paper ID</th>
<th>Paper Title</th>
<th>Presenter</th>
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</thead>
<tbody>
<tr>
<td>NTU-38</td>
<td>Comparison of structural damage diagnosis methods based on the first mode shape</td>
<td>Ho-Feng CHIANG</td>
</tr>
<tr>
<td>TU-37</td>
<td>Parameterized deterioration model of regional bridges based on inspection reports</td>
<td>Xiaoming LEI</td>
</tr>
<tr>
<td>KU-04</td>
<td>Fundamental study on detection of bridge vibration characteristic with using Micro Energy Harvester</td>
<td>Kouhei KAWABATA</td>
</tr>
<tr>
<td>NTU-43</td>
<td>Automated modal property extraction based on frequency-domain stochastic subspace system identification</td>
<td>Jau-Yu CHOU</td>
</tr>
<tr>
<td>TU-33</td>
<td>Traffic load identification with the aid of computer vision techniques for middle-small spanned bridges</td>
<td>Xudong JIAN</td>
</tr>
<tr>
<td>KU-45</td>
<td>Fundamental study on crack detection method for steel memberby thermal load over paint coating</td>
<td>Shinya WATANABE</td>
</tr>
<tr>
<td>KAIST-17</td>
<td>Moment-curvature relationship based blast analysis for RC plane structures</td>
<td>Seok-Jun JU</td>
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</tbody>
</table>
### Track 1 (13:00-14:45, November 23)
**Structural Engineering 9**
**Track Chair:** Prof. Xueqing Zhang  
**Track Co-chair:** Prof. Jiahua Yang

<table>
<thead>
<tr>
<th>Paper ID</th>
<th>Paper Title</th>
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</thead>
<tbody>
<tr>
<td>CU-11</td>
<td>Shear strength of reinforced concrete beam with embedded steel trusses</td>
<td>Khonesavanh PORMEUANG-PING</td>
</tr>
<tr>
<td>KU-25</td>
<td>failure process and load-displacement relationship of interlocking brick walls during lateral loading</td>
<td>Johanes Jefry PRASETYO</td>
</tr>
<tr>
<td>NTU-36</td>
<td>Shear strength test of slabs applied to seismic retrofit of external RC frames</td>
<td>Chun-Hung CHEN</td>
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**Structural Engineering 10**
**Track Chair:** Prof. Jet Yuen, Richard  
**Track Co-chair:** Mr. Siyuan Wu

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Structural Engineering 1
Track Chair: Prof. Yoshikazu Takahashi
Track Co-chair: Mr. Cheng Qian

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**Track 3 (13:30-15:15, November 22)**
Construction Engineering 1
Track Chair: Prof. Veerasak Likhitruangsilp
Track Co-chair: Mr. Lambada Roeun

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Construction Engineering 2
Track Chair: Prof. Nakhon Kokkaew
Track Co-chair: Dr. Liguang Wang

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Construction Engineering 3
Track Chair: Prof. Shang-Hsien Hsieh
Track Co-chair: Prof. Atsushi Hattori

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**Geotechnical Engineering 1**
Track Chair: Prof. Suched Likitlersuang
Track Co-chair: Mr. Thanakrit Rojanachaisri

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### Track 5 (13:30-15:15, November 22)
**Geotechnical Engineering 2**
Track Chair: Prof. Jiunn-Shyang Chiou
Track Co-chair: Prof. Wuwei Mao

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Geotechnical Engineering 3
Track Chair: Prof. Dong-Soo Kim
Track Co-chair: Prof. Mai Sawada

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### Track 5 (15:30-17:15, November 22)
Geotechnical Engineering 4
Track Chair: Prof. Louis Ge
Track Co-chair: Mr. Jingkang Shi

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### Track 4 (09:15-11:00, November 23)
Geotechnical Engineering 5
Track Chair: Prof. Yosuke Higo
Track Co-chair: Dr. Yannick Ng Choy

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### Track 5 (09:15-11:00, November 23)
Geotechnical Engineering 6
Track Chair: Prof. Chun Fai Leung
Track Co-chair: Mr. Sathya Subramanian

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Geotechnical Engineering 7
Track Chair: Prof. Thirapong Pipatpongsa
Track Co-chair: Mr. Tirawat Simlemkim

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<td>Sathya SUBRAMANIAN</td>
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### Track 5 (14:00-15:45, November 23)
Geotechnical Engineering 8
Track Chair: Prof. Hiroyuki Goto
Track Co-chair: Mr. Min-Chien Chu

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### Track 5 (16:00-17:30, November 23)
Geotechnical Engineering 9
Room: seismic earthquake
Track Chair: Prof. Taeseo Ku
Track Co-chair: Ms. Fu-Hsuan Yeh

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<td>The deformation pattern of gravel layer with different fabrics induced by thrust faulting</td>
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<td>KU-22</td>
<td>Evaluation on the healing of single rock fracture with consideration of the critical state during slide-hold-slide process</td>
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<td>Minhyeong LEE</td>
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<td>Flooding in metropolitan area caused by typhoon Ewiniar in June 2018</td>
<td>Yejia QIANG</td>
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Civil Engineering 1
Track Chair: Prof. Youngchul Kim
Track Co-chair: Prof. Yin-Nan Huang

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<td>Shaking table test study of nuclear power plant structure considering SSI effect</td>
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<td>Interaction diagram methodology for design of steel reinforced concrete composite columns</td>
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Civil Engineering 2  
Track Chair: Prof. Ser Tong Quek  
Track Co-chair: Prof. Wen-Cheng Liao

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Civil Engineering 3  
Track Chair: Prof. Sze Dai Pang  
Track Co-chair: Prof. Mei-Mei Song

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<td>KAIST-53</td>
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**Civil Engineering 4**
Track Chair: Prof. Yi Cai
Track Co-chair: Ms. Wint Thandar

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### Track 3 (09:15-11:00, November 23)
**Transportation Engineering 1**
Track Chair: Prof. Yoonjin Yoon
Track Co-chair: Dr. Yuna Noh

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<td>Generating a street network in a polygonal site of urban space</td>
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Transportation Engineering 2
Track Chair: Prof. Jittichai Rudjanakanoknad
Track Co-chair: Mr. Jielun Liu

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### Track 3 (14:00-15:45, November 23)
Transportation Engineering 3
Track Chair: Prof. Ghim Pin Ong
Track Co-chair: Mr. Somkith Dethvongsone

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**Transportation Engineering 4**  
**Track Chair:** Prof. Albert Y. Chen  
**Track Co-chair:** Mr. Yutong Cai

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### Track 6 (09:15-11:00, November 23)
**Wind Engineering 1**  
**Track Chair:** Prof. Shuyang Cao  
**Track Co-chair:** Prof. Tomomi Yagi

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<td>Local stability algorithm for hyperbolic shell structures under non-uniform wind loads</td>
<td>Lin ZHAO</td>
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### Track 6 (11:15-13:00, November 23)

#### Wind Engineering 2

**Track Chair:** Prof. Zhao Lin  
**Track Co-chair:** Prof. Kyohei Noguchi

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### Track 6 (14:00-15:45, November 23)

#### Wind Engineering 3

**Track Chair:** Prof. Tomomi Yagi  
**Track Co-chair:** Prof. Shuyang Cao

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<td>Electrical and heating properties of carbon nanotube-incorporated polymeric composites: Overview</td>
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