- 9:15 Registration (at Bldg.4 Hall)
- 9:30 Opening

Chairperson: Chung-Chan HUNG (TW), Masanori TANI (JP)

- 9:45 Energy-Based Hysteresis modeling of Reinforced Concrete Members under Cyclic Loading (K1)
 - Tae-Sung EOM, Insung KIM, and Hong-Gun PARK
- 10:00 Seismic Behavior of Concrete Beams with Different Types of Hoops in the Plastic Hinge Region (T1)
 - Yu-Chen OU, Hermawan SUTEJO, and Jyun-Lin HUANG
- 10:15 PLASTIC HINGE MODEL OF REINFORCED CONCRETE COUPLING BEAMS (K2)

 Hyeon-Jong HWANG, Soo-Hyun KIM, Sung-Hyun KIM, Mok-In PARK, and HongGun PARK
- 10:30 RC Coupling Beams with Different Arrangements of Transverse Reinforcement Tested under Seismic or Wind Loads (K3)

 Tse-An CHOU, Seung Heon LEE, and Thomas KANG
- 10:45 PUSHOVER ANALYSIS MODELS OF SIMPLE INTERIOR SEISMIC RETROFIT METHODS FOR RC STREET-HOUSES (T3)

 Yi-Hsuan TU, and Chun-Jung LIN
- 11:00 THICKNESS OF SHEAR FLOW PATH IN RC MEMBERS AT MAXIMUM TORSIONAL STRENGTH (K4)

 Dong-Hwan KIM, Hyeong-Gook KIM, Yong-Jun LEE, Jung-Yoon LEE, and Kil-Hee KIM
- 11:15 EQUIVALENT LINEAR METHODS FOR LEAD-RUBBER-BEARING SYSTEMS SUBJECTED TO PULSE-LIKE GROUND MOTIONS (T4)
 Yin-Nan HUANG, and Julian ADIPUTRA
- 11:30 Flexural capacity at pile head interface (J8)

 <u>Himeka KAWANO</u>, Subedi NARESH, Susumu KONO, Taku OBARA, Katsumi KOBAYASHI, Yasuhiro GUNJI, and Takeshi FUKUDA
- 11:45 SEISMIC PERFORMANCE OF PILE-SUPPORTED SLAB WHRAF DECK (K6)

 <u>Decukhang (DK) LEE</u>
- 12:00 Group Photo 1st & Lunch (Check the Map)

Chairperson: Hong-Gun PARK (KR), Yi-Hsuan TU (TW)

- 13:30 ARTICIFICIAL NEURAL-NET BASED HYSTERESIS IDENTIFICATION (K5) Sung-Yong KIM, Hong-Rae JANG, and Cheol-Ho LEE
- A Mesh Insensitive Constitutive Model for High-Fidelity 3D Simulations of Concrete Structures under Cyclic Loading (T7)

 Terry YP YUEN, Tzu-Han WEN, Chung-Chan HUNG, and Johnson ZHANG
- 14:00 CYCLIC LOADING TESTS ON PRE-DAMAGED RC COLUMNS STRENGTHENED WITH UFC PANELS (J11)
 - Sua LIM, Masanori TANI, Tomohisa MUKAI, Hidekazu WATANABE, Taku ISHIOKA, Masayoshi KOMIYAMA, Tsubasa HATTORI, and Daisuke MATSUMOTO
- 14:15 SEISMIC PERFORMANCE OF HIGH-STRENGTH REINFORCED CONCRETE COLUMNS AFTER FIRE EXPOSURE (T8)

 Bo-Jun HUANG, Chung-Chan HUNG, Rong-Jing WANG, Shun-Chih WANG, Ming-Yuan LEI, and Chi-Chung LEE

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- Flexural-Shear Behavior of Existing Reinforced Concrete Columns Under High Axial 14:30 Load and Varying Axial Load. Residual Seismic Performance of a Damaged RC Infilled Wall (T11)
 - Yi-An LI, Ling-Jyun CHEN, Wen-Cheng SHEN, Pu-Wen WENG
- 14:45 NUMERICAL INVESTIGATION OF THE POST-FIRE PERFORMANCE OF PILOTI-TYPE RC BUILDING STRUCTURES (K8)
 - <u>Jinwon SHIN</u>, Yurim CHU, Taejin KIM, and Sung-Mo CHOI DESIGN AND CONSTRUCTION OF YODOKO SAKURASTADIUM,
- 15:00 SUBSTANTIAL PCA CONVERSION AND JAPAN'S FIRST APPLICATION OF BRIGHTLY COLORED CONCRETE FOR ACHIEVING A DECARBONIZED SOCIETY (J5)
 - <u>Tomonori SHIBUTANI</u>, Yasuhiko YAMASHITA, Kinya TAGAKI, Souichirou KUSHIMA, Yuuki MURAKAMI, and Yoshiyuki NAKASONE
- 15:15 DAMAGE IMAGE GENERATION OF BRIDGE WITH CONDITIONAL GENERATIVE ADVERSARIAL NETWORK (T5)
 - Tzu-Kang LIN, and Hao-Tun CHANG
- 15:30 Development of Geometrically Nonlinear Mass Damper with Mass Moment of Inertia for Seismically-Excited Buildings (T10)
 - Chia-Ming CHANG, and Tzu-Lun KAO
- COMPARATIVE DAMAGE ASSESSMENT OF STEEL BEAM-TO-BOX COLUMN
- 15:45 CONNECTIONS UNDER FIRE AND SUBJECTED TO EARTHQUAKE SHAKING (T12)
 - <u>Heui-Yung CHANG</u>, Rong-Hong CHEN, Chi-Ming LAI, Sin-Yu Kang, Chu-Tsen LIAO, and Chien-Kuo CHIU
- 16:00 Break

Chairperson: Kil-Hee KIM (KR), Kazuya MITSUI (JP)

- 16:30 DESIGN AND CONSTRUCTION OF RC SPIDER WEB FRAME SURROUNDED BY ORGANIC SHAPED WALL (J6)
 - Satoshi KAWAMURA
- 16:45 Seismic Behavior of Low-yield Double Steel Plate and Concrete Shear Walls (T6) Chin-Tung CHENG, Jhe-Li SU, Chau-Cho YU, Yi-Shan LIN, and Chi-Ming LAI
- 17:00 BI-DIRECTIONAL LOADING TESTS ON RC SHEAR WALLS SUBJECTED TO VARYING AXIAL LOAD (J10)
 - Ryo YAMADA, Masanori TANI, and Minehiro NISHIYAMA
- 17:15 Residual Seismic Performance of a Damaged RC Infilled Wall (T9) Chien-Kuo CHIU, Wen-I LIAO, and Chu-Tsen LIAO
- 17:30 UNIAXIAL COMPRESSIVE CAPACITY OF HIGH-STRENGTH CIRCULAR HOLLOW PRECAST CONCRETE-FILLED STEEL TUBE (J9)

 Clarissa JASINDA, Susumu KONO, Taku OBARA, Hiroshi HATTA, and David MUKAI
- 17:45 CENTRIFUGE TESTS FOR SINGLE-DEGREE-OF-FREEDOM (SDOF) FRAME STRUCTURE WITH SHALLOW FOUNDATION (K7)

 Jin-Young PARK, Hong-Gun PARK, Dong-Kwan KIM, and Jin-Woo KIM
- 18:00 Close First-day Seminar

Program	(2nd day	y) 2022.12.11
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9:40 Registration (at Bldg.4 Hall)

Chairperson: Thomas KANG (KR), Yin-Nan HUANG (TW)

10:00 MODELLING ISSUE OF STEEL BRACES USING A PHYSICAL MODELING METHOD (K9)

Dong-Hyeon SHIN, and Hyung-Joon KIM

EFFECT OF LOADING PROTOCOL ON HYSTERETIC RESPONSE AND

10:15 STIFFNESS DETERIORATION OF STEEL HOLLOW STRUCTURAL SECTION COLUMNS (J2)

Itsuki MATSUMOTO, Kazuya MITSUI, and Kikuo IKARASHI

10:30 EXPERIMENTAL DEVELOPMENT OF KNIFE-PLATE-CONNECTED STEEL PANEL DAMPERS (T2)

Po-Chien HSIAO, and Chun-Yi LI

NUMERICAL INVESTIGATION ON FLEXURAL BUCKLING STRENGTH OF H-

10:45 SECTION COLUMNS CONSISTING OF ULTRA-HIGH STRENGTH STEEL FLANGE AND NORMAL STRENGTH STEEL WEB (J7)

Shotaro HAYAKASHI, Hayato ASADA, and Kenzo TAGA

11:00 A STUDY ON BUCKLING STRENGTH OF REINFORCED ANGLE STEEL POST IN TRANSMISSION TOWERS (J4)

Shunichi TAKAGI, and Atsushi SATO

EFFECT OF ASSEMBLY TYPES ON BOLTED CONNECTION STRENGTH

11:15 CONSIST OF BUILT-UP ANGLE MEMBERS UNDER MONOTONIC TENSILE FORCE (J1)

Hideo HAIKATA, Kikuo IKARASHI, and Kazuya MITSUI

12:00 Group Photo 2nd and Closing