

ACEM22/Structures22 Program at a Glance

*Time is based on KST / GMT+9

AUGUST 17 WEDNESDAY	AUGUST 18 THURSDAY	AUGUST 19 FRIDAY
<p>11:00-13:00 Registration</p> <p>13:00 - 13:10 Opening Ceremony W0A: Opening Remarks (Thomas Kang)</p>	<p>09:00 - 10:00 ICGE22 Session T0A: Advancements in Geomechanics and Engineering (4th US-Korea Geotechnical Workshop) I</p>	
<p>13:10 - 13:40 Keynote Lectures I</p> <p>W1A: Applications of Remote & Real-Time Sensing, Artificial Intelligence, and Edge Computing in Structural/Wind Engineering (Thomas Kang, Korea) W1B: Design of Water Biofilm by Regulation Quorum Sensing (Ji-Hyang Kweon, Korea) [Video] W1C: Large-Scale Wind Testing to Advance Climate Responsive Infrastructure (Aly Mousaad Aly, USA)</p>	<p>10:00 - 10:30 Keynote Lectures III</p> <p>T1A: ICGE22 Keynote Lecture (Gye-Chun Cho, Korea) T1B: Fluid-Structure Interactions of Elastic Sheets for Energy Harvesting (Dae Gyoun Kim, Korea)</p>	<p>10:00 - 10:30 Keynote Lectures V</p> <p>F1A: Physics Guided Machine Learning: System Identification (Satish Nagarajaiah, USA) F1B: Deep Materials Modeling and Design (David Chen, Taiwan) F1C: Does Structural Performance against Non-synoptic Wind Loads Matter? Recent Experiences in Life-cycle Cost Analysis against Wind Hazards (Luca Caracoglia, USA) [Video]</p>
<p>13:40 - 14:10 Keynote Lectures II</p> <p>W2A: BIM-based modelling for constructibility assessment (Walid Tizani, UK) [Video] W2B: Fracture, Stochastic Upscaling and Size & Scale Effects (Adnan Ibrahimbegovic, France) W2C: Advances in Modelling the Wind-Induced Response of Long-Span Bridges (Claudio Mannini, Italy)</p>	<p>10:30 - 11:00 Keynote Lectures IV</p> <p>T2B: Spurious Modal Identification by Comparing the Monitoring Data in Different Time (Ting-Hua Yi, China) [Video] T2C: AI-Empowered Performance-Based Wind Engineering (Teng Wu, USA)</p> <p>10:30 - 11:20 ICGE22 Session T2A: Advancements in Geomechanics and Engineering (4th US-Korea Geotechnical Workshop) II</p>	<p>10:30 - 11:00 Keynote Lectures VI</p> <p>F2A: Collapse Performance Assessment of Buildings under Extreme Loads (Halil Sezen, USA) F2C: Testing and Analysis of Wind Turbines under Tornadoes and Downbursts (Ashraf El Damatty, Canada)</p>
<p>14:10 - 14:30 Break Time</p>	<p>11:00 - 11:20 Break Time</p>	<p>11:00 - 11:20 Break Time</p>
<p>14:30 - 16:00 Session W3</p> <p>W3A: Computational Design and Experimental Method in Prestressed Concrete and Other Structures W3B: Innovative structural design and analysis for buildings and infrastructures W3C: Computational Methods and Structural Mechanics W3D: Performance Evaluation of Infrastructures under Extreme Wind Loadings and Multiple Disasters</p>	<p>11:30 - 13:00 Session T3</p> <p>T3A: Advancements in Geomechanics and Engineering (4th US-Korea Geotechnical Workshop) III T3B: Composite Materials and Structures Subject to Dynamic and Other Loads T3C: Coupled Mechanics between Fluid Flow and Deformable Structure I T3D: Multi-Hazard Study of Wind Turbine Towers</p>	<p>11:30 - 13:00 Session F3</p> <p>F3A-1: Forensic Structural & Geotechnical Engineering F3A-2: Forensic Water Resource & Environmental Engineering F3B: Computational Design and Experimental Method in Reinforced Concrete F3C: Structural Safety Evaluation and Health Monitoring (The 1st CSUST-CBNU Joint Seminar)</p>

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AUGUST 17 WEDNESDAY	AUGUST 18 THURSDAY	AUGUST 19 FRIDAY
16:00 - 16:10 Break Time	13:00 - 14:00 Lunch	Lunch
16:10 - 18:30 Session W4 W4C: Wind-Induced Structural Performance and Criteria	14:00 - 15:30 Session T4 T4A: Advancements in Geomechanics and Engineering (4 th US-Korea Geotechnical Workshop) IV T4B: Smart Sensing and Monitoring T4C: Coupled Mechanics between Fluid Flow and Deformable Structure II T4D: Safety and Stability of Urban Power Grid under Extreme Weather Hazards	
	15:30 - 15:40 Break Time 15:40 - 17:10 Session T5 T5A: Advancements in Geomechanics and Engineering (4 th US-Korea Geotechnical Workshop) V T5B: Structural Health Monitoring Techniques	

Video/Poster Sessions	
Video Sessions	All pre-recorded video presentations and posters will be available on ACEM22/Structures22 Proceedings throughout the conference period (8/16 - 8/19).

ACEM22/Structures22 Program at a Glance

Participation in live Zoom sessions

- 1) All on-site and on-line participants may access live sessions through Zoom.
- 2) Please indicate your name and paper ID to participate. [Ex. WS1234_1234 (name*)]
- 3) Presenters will be given the co-host authority during their presentation.

Zoom IDs & Passwords

Session A (Tue-Fri) #515	ID: 821 217 3937 PW: 000222
Session B (Tue-Fri) #519	ID: 606 231 7007 PW: 000111
Session C (Tue-Fri) #522	ID: 392 999 5345 PW: 000444
Session D (Tue-Fri)	ID: 891 921 3469 PW: 000333

All Poster/Video presentations will be uploaded to the online proceeding of ACEM22/Structures22.

ACEM22 Online Proceedings: http://www.i-asem.org/acem22_publication.html

Structures22 Online Proceedings: http://www.i-asem.org/structures22_publication.html

TECHNICAL PROGRAM

* All participants may access live sessions through Zoom. Please indicate your name and paper ID to participate.

REGISTRATION
11:00 – 13:00
GECE Foyer 5th Floor

OPENING CEREMONY

(W0 13:00 – 13:10)

8/17 Wed

Opening Remarks

Room A, #515
(Zoom ID: 821 217 3937 PW: 000222)

Thomas Kang, Co-Chairman, ACEM22/Structures22

KEYNOTE LECTURES (I & II)

(W1 13:10 – 13:40)

8/17 Wed

(W2 13:40 – 14:10)

SESSION W1A	13:10-13:40	<i>Room A, #515</i> <i>(Zoom ID: 821 217 3937 PW: 000222)</i>
<i>Chairman: Hyeongyeop Shin</i>		
Applications of Remote & Real-Time Sensing, Artificial Intelligence, and Edge Computing in Structural/Wind Engineering; Thomas Kang (Korea)		
SESSION W1B	13:10-13:40	<i>Room B, #519</i> <i>(Zoom ID: 606 231 7007 PW: 000111)</i>
<i>Chairman: Han Suk Sung</i>		
Design of Water Biofilm by Regulation Quorum Sensing; Ji-Hyang Kweon (Korea) [Video]		
SESSION W1C	13:10-13:40	<i>Room C, #522</i> <i>(Zoom ID: 392 999 5345 PW: 000444)</i>
<i>Chairman: Hamidreza Alinejad</i>		
Large-Scale Wind Testing to Advance Climate Responsive Infrastructure; Aly Mousaad Aly (USA)		
SESSION W2A	13:40-14:10	<i>Room A, #515</i> <i>(Zoom ID: 821 217 3937 PW: 000222)</i>
<i>Chairman: Hyeongyeop Shin</i>		
BIM-based modelling for constructibility assessment; Walid Tizani (UK) [Video]		
SESSION W2B	13:40-14:10	<i>Room B, #519</i> <i>(Zoom ID: 606 231 7007 PW: 000111)</i>
<i>Chairman: Han Suk Sung</i>		
Fracture, Stochastic Upscaling and Size & Scale Effects; Adnan Ibrahimbegovic (France)		
SESSION W2C	13:40-14:10	<i>Room C, #522</i> <i>(Zoom ID: 392 999 5345 PW: 000444)</i>
<i>Chairman: Hamidreza Alinejad</i>		
Advances in Modelling the Wind-Induced Response of Long-Span Bridges; Claudio Mannini (Italy)		

TECHNICAL PROGRAM

KEYNOTE LECTURES (III & IV)

(T1 10:00 – 10:30)
(T2 10:30 – 11:00)

8/18 Thur

SESSION T1A	10:00-10:30	Room A, #515
Chairman: Ilhan Chang (Zoom ID: 821 217 3937 PW: 000222)		
ICGE22 Keynote Lecture; Gye-Chun Cho (Korea)		
SESSION T1B	10:00-10:30	Room B, #519
Chairman: Hyun Duk Seo (Zoom ID: 606 231 7007 PW: 000111)		
Fluid-Structure Interactions of Elastic Sheets for Energy Harvesting; Dae Gyoum Kim (Korea)		
SESSION T2B	10:30-11:00	Room B, #519
Chairman: Hyun Duk Seo (Zoom ID: 606 231 7007 PW: 000111)		
Spurious Modal Identification by Comparing the Monitoring Data in Different Time; Ting-Hua Yi (China) [Video]		
SESSION T2C	10:30-11:00	Room C, #522
Chairman: Thomas Kang (Zoom ID: 392 999 5345 PW: 000444)		
AI-Empowered Performance-Based Wind Engineering; Teng Wu (USA)		

KEYNOTE LECTURES (V & VI)

(F1 10:00 – 10:30)
(F2 10:30 – 11:00)

8/19 Fri

SESSION F1A	10:00-10:30	Room A, #515
Chairman: Hajin Choi (Zoom ID: 821 217 3937 PW: 000222)		
Physics Guided Machine Learning: System Identification; Satish Nagarajaiah (USA)		
SESSION F1B	10:00-10:30	Room B, #519
Chairman: Deuckhang Lee (Zoom ID: 606 231 7007 PW: 000111)		
Deep Materials Modeling and Design; C.S. David Chen (Taiwan)		
SESSION F1C	10:00-10:30	Room C, #522
Chairman: Thomas Kang (Zoom ID: 392 999 5345 PW: 000444)		
Does Structural Performance against Non-synoptic Wind Loads Matter? Recent Experiences in Life-cycle Cost Analysis against Wind Hazards; Luca Caracoglia (USA) [Video]		
SESSION F2A	10:30-11:00	Room A, #515
Chairman: Seong Ryong Ahn (Zoom ID: 821 217 3937 PW: 000222)		
Collapse Performance Assessment of Buildings under Extreme Loads; Halil Sezen (USA)		
SESSION F2C	10:30-11:00	Room C, #522
Chairman: Thomas Kang (Zoom ID: 392 999 5345 PW: 000444)		
Testing and Analysis of Wind Turbines under Tornadoes and Downbursts; Ashraf El Damatty (Canada)		

TECHNICAL PROGRAM

Wind and Structures

Session W3D	14:30 – 16:00	Zoom Session
Session Title: Performance Evaluation of Infrastructures under Extreme Wind Loadings and Multiple Disasters [Mini Symposium] Chairmen: Xing Fu, Zhi-Qian Dong Zoom ID: 891 921 3469 PW: 000333		
Global displacement reconstruction of transmission tower structure under wind-induced disaster; Qing Zhang*, Liang Ren (WS2124_7198)		Zoom
A theoretical framework for modifying the equivalent static wind load of transmission lines considering the location updating effect; Xing Fu*, Wen-Long Du (WS2124_7235)		Zoom
Wind-induced response analysis of transmission tower-line system considering joint effect; JiaXiang Li*, Chao Zhang (WS2124_7236)		Zoom
Inexact Newton Woodbury Method for Efficient Structural Nonlinear Analysis; Shuo Jia*, Ding-Hao Yu, Gang Li (WS2124_7241)		Video
Structure-soil-structure interaction between multi-tower structures and large underground structures; Han Zhang*, Rui Wang, Zhi-Qian Dong, Gang Li (WS2124_7250)		Zoom
Seismic behavior analysis of Rocking Self-Centering bridge pier considering the influence of chloride ion on the erosion of prestressed reinforcement; Lihua Zhu, Zhengjun Chen* (WS2124_7254)		Zoom
Simplified Mechanical Model for Regional Seismic Collapse Performance Prediction of RC Frame and URM Structures; Li-Ling Yu*, Zhi-Qian Dong, Gang Li (WS2124_7285)		Zoom
Damage index-based restoring force model for seismic damage compression-bending RC members; Pengjie LU*, Guoxin WANG (WS2124_7401)		Zoom
Damage index-based restoring force model for seismic damaged compression-bending RC members; Pengjie LU*, Guoxin Wang		Zoom
Session W4C	16:10 - 18:30	Room C: #522
Session Title: Wind-Induced Structural Performance and Criteria [Mini Symposium] Chairmen: Thomas Kang, Seung Yong Jeong Zoom ID: 392 999 5345 PW: 000444		
Large eddy simulation of high-rise building under interference effect; Han-Sol Lee*, Thomas Kang (WS2125_7209)		Onsite
Generation of correlated time history wind loads for performance-based wind design; Seung Jeong*, Thomas Kang (WS2125_7210)		Onsite
Wind resistance performance of tall RC buildings with corner modification; Byeonguk Ahn*, Hamidreza Alinejad, Thomas Kang (WS2125_7212)		Onsite
Instability effects due to wind and snow combinations on transmission line systems; Luca Pescarin*, Valentina Salomoni (WS1110_7224)		Zoom
Effects of Inlet Placement on the Computation of Vortex Shedding from Square-Sectioned Cylinders; Yanwei Niuc, Bassam A. Younis* (WS1102_7529)		Onsite
Wind and Collision Resistance Performance of PC Column-Foundation Connection Using Clamped Headed Bolt; Han Suk Sung*, Seong Ryong Ahn, Thomas Kang (WS2126_7208)		Onsite
Efficiency of bilinear and self-centering systems under along-wind load; Hamidreza Alinejad*, Thomas Kang (WS2126_7213)		Onsite
Design of Mechanical Rectifier-converter for Wind Energy Harvesting; Aref Afsharfard*, and Kyung Chun Kim		Onsite
Cyclic wind and seismic loading tests of reinforced concrete coupling beams with different amount of transverse reinforcements; Tse-An Chou*, Seung Lee, Thomas Kang (WS2126_7216)		Onsite
Validation of mechanical admittance functions of high-rise buildings; Min Kyu Kim*, Thomas Kang (WS2125_7531)		Onsite

TECHNICAL PROGRAM

Session T3D	11:30 - 13:00	Zoom Session
Session Title: Multi-Hazard Study of Wind Turbine Towers Chairman: Kaoshan Dai Zoom ID: 891 921 3469 PW: 000333		
Dynamic response of monopile supported wind turbines considering soil liquefaction; Song-Ye Zhu, Jian Zhang* (WS2127_7287)		Zoom
Ultimate and fatigue strength analysis of a steel-UHPFRC hybrid support structure for offshore wind turbines; Chao Chen*, Xiujiang Shen, Xugang Hua, Xudong Shao (WS2127_7311)		Zoom
Response control of wind turbines with ungrounded tuned mass inerter system (TMIS) under wind and seismic loads; Kaoshan Dai*, Ruifu Zhang, Yanru Cao (WS2127_7427)		Zoom
A new fatigue assessment method for wind turbine structures considering load sequence; Chuannan Xiong*, Yuxiao Luo, Hang Du, Kaoshan Dai (WS2127_7429)		Zoom
Analysis of Wind Turbine Farms under Thunderstorm Downbursts; Mostafa Ramadan Ahmed*, Ashraf El Damatty, Kaoshan Dai, Wensheng Lu (WS2127_7528)		Zoom
Design of Prestressed Concrete-filled Double-skin Steel Tubular Lattice Wind Turbine Tower; Chao Hu*, Yuhang Wang, Kang Wang, Qiqi Li, Yang Zhou, Yongsan Lan (WS2127_7309)		Video

Session T4D	14:00 - 15:30	Zoom Session
Session Title: Safety and Stability of Urban Power Grid under Extreme Weather Hazards Chairmen: Dahai Wang, Ashraf El Damatty Zoom ID: 891 921 3469 PW: 000333		
Bearing capacity of transmission poles under combined wind and rain excitations based on the deep learning method; Xing Fu*, Xu Xu (WS2128_7232)		Zoom
Field measurements of thunderstorm winds and wind-induced response of a 356m high guyed mast; Muguang Liu*, Yuanpeng Pan, Jiakai Hu, Zhuangning Xie (WS2128_7243)		Zoom
An improved aerodynamic damping ratio identification method used for the transmission tower with lines; Jie Song*, Feng Li, Lianghao Zou, Shuguo Liang (WS2128_7253)		Zoom
Study on equivalent damping ratio of wind-induced vibration for transmission towers considering tower-line coupling effect; Shuang Zhao*, Zhitao Yan (WS2128_7273)		Zoom
Assessment of dynamic behavior of ice-shedding jump of conductor with numerical analysis; Daihai Wang*, Zhanhao Deng (WS2128_7348)		Zoom
Stability analysis of a transmission tower-line system subjected to the sudden cable rupture; Daihai Wang, Bin Wu, Hua-Dong Zheng* (WS1112_7426)		Zoom
Comparison Between High Intensity and Synoptic Wind for Lattice Transmission Towers; Ahmed Shehata, Abdelrahman Ahmed*, Ashraf El Damatty (WS2128_7527)		Zoom

Wind and Structures

(Pre-recorded session)

A six-ways coupled numerical model for wind-sand-structure interactions problem; Dongmei Zhang*, Lei Han, Zhong-Kai Huang (WS1106_7402)	Video
The new flutter derivatives extraction system for considering the coupled flutter phenomenon; Youchan Hwang (WS1103_7405)	Video
Optimization of Wind Farm Regular Layout Based on Grid Coordinate Genetic Algorithm; Sai Zhang (WS1117_7516)	Video
A framework for wind-induced vulnerability assessment of low-rise light steel buildings; Haojie Zhou*, Fengbo Wuc, Guoqing Huang (WS1114_7512)	Video
Comparison of wind-induced responses of transmission tower by using time domain and frequency domain methods; guohui shen, hangcong yu*, yingneng zhao, liang yu, buhui li (WS1115_7260)	Video

TECHNICAL PROGRAM

Geomechanics and Engineering

Session T0A	09:00 - 10:00	Room A: #515
Session Title: Advancements in Geomechanics and Engineering (4th US-Korea Geotechnical Workshop) I Chairman: Jongwan Eun Zoom ID: 821 217 3937 PW: 000222		
Subsurface Anomaly Detection Utilizing Synthetic GPR Images and Deep Learning Model; Sung-Hee/Sonny Kim, Ahmad Abdelmawla* (GE2177_7296)		Zoom
Effect of rainfall characteristics on slope stability; Jeong-Yeon Yu*, Jong-Won Woo, Kyung-Nam Kang, Ki-II Song (GE2177_7292)		Onsite
Fast Detection of Anomalies in A Model Earth Dam Based on A Distributed Temperature Sensing Data integrated with Artificial Intelligence; Binyam M. Bekele, Chung R. Song*, Jongwan Eun, Seunghee Kim (GE2177_7305)		Zoom
Compressibility of biogenic and clastic fine-grained sediments in response to pore water salinity changes; Junbong Jang*, Handikajati Kusuma Marjadi, Willam F. Waite (GE2177_7339)		Onsite
Hydraulic Properties of Unsaturated Clay Shale; Ana Lanza Hernandez, Soonkie Nam*, Xiaoming Yang (GE2177_7377)		Zoom
Numerical study on stability and deformation of retaining wall with groundwater drawdown; Hyunsung Lim*, Jongjeon Park, Junyoung Ko (GE2177_7443)		Zoom
Thermal-Hydraulic-Mechanical-Biochemical Processes in Municipal Solid Waste Landfills; M. Sina Mousavi, Jongwan Eun*, Boo-Hyun Nam (GE2177_7386)		Zoom
Session T2A	10:30 - 11:20	Room A: #515
Session Title: Advancements in Geomechanics and Engineering (4th US-Korea Geotechnical Workshop) II Chairman: Soonkie Nam Zoom ID: 821 217 3937 PW: 000222		
Use of accelerated calcite precipitation to investigate a clogging potential of RCA; Jinwoo An, Boohyun Nam* (GE2177_7374)		Zoom
Investigation of Sand-Biochar Mixtures as a Potential Roadway Fill Material; Katia / Lélé Lagmago, Joon Soo Park*, Hai Lin (GE2177_7345)		Zoom
Theoretic Evaluation of Development of Soil Plug in Driving Open-Ended-Pile; Young U Kim, Kab B Kim* (GE2177_7447)		Onsite
Investigation on the chemical and mechanical effects of paper sludge ash as a replacement of stabilizer in soft cohesive soil with seasonal variability; Jinwoo An*, Kyungwon Park, Boo Hyun Nam (GE2177_7393)		Zoom
Application of UAV images for rainfall-induced slope stability analysis in urban areas; Dohyun Kim, Junyoung Ko, Jaehong Kim* (GE2177_7359)		Zoom
Deeply embedded ring anchor for floating offshore wind turbines and corresponding mooring systems; Junho Lee*, Krishnaveni Balakrishnan, Charles Aubeny, Sanjay Arwade, Don DeGroot, Alejandro Martinez, Ryan Beemer (GE2177_7342)		Zoom

TECHNICAL PROGRAM

Session T3A	11:30 - 13:00	Room A: #515
Session Title: Advancements in Geomechanics and Engineering (4th US-Korea Geotechnical Workshop) III Chairman: Ilhan Chang Zoom ID: 821 217 3937 PW: 000222		
Unconfined Compression Strength of Soil using Gene Expression Programming; Muhammad Naqeeb Nawaz*, Song-Hun Chong, Muhammad Muneeb Nawaz, Safer Haider, Waqas Hassan (GE2177_7291)	Zoom	
New energy partitioning method in essential work of fracture (EWF) concept for 3-D printed high density polyethylene blends; Ahmet Oruc, Claire Fulks, Travis Adams, Dal Hyung Kim, Sungmin Youn, Sukjoon Na* (GE2177_7320)	Zoom	
Efficiency of Urea Hydrolysis by Ureolytic Bacteria under Different Solvent Conditions; Sojeong Kim*, Jinung Do (GE2177_7310)	Onsite	
Prediction of karst subsidence and sinkhole collapse using machine learning methods; Yong Je Kim*, Boo Hyun Nam (GE2177_7376)	Zoom	
A geospatial liquefaction probability models for the 2017 M5.4 Pohang, South Korea, earthquake; Hwanwoo Seo, Han-Saem Kim, Byungmin Kim* (GE2177_7396)	Onsite	
Estimation of elastic modulus and liquid limit of cohesive soil using vision-based vibrometry; Matthew Sands, Soonkie Nam, Xiaoming Yang, Jinki Kim* (GE2177_7379)	Zoom	
Stability analysis of infinite slopes in rock with strength governed by the Hoek-Brown failure criterion; Downon Park* (GE2177_7361)	Onsite	
Effects of activated carbon on the compressive strength and air content of Portland cement concrete; Andrew Ball, Sungmin Youn, Sukjoon Na* (GE2177_7422)	Zoom	
Effect of anionic xanthan gum on the sedimentation of kaolinite; Yeong-Man Kwon*, Gye-Chun Cho, Ilhan Chang (GE2177_7354)	Onsite	
Eccentric undrained load capacity of a deeply embedded ring anchor in clay; Junho Lee*, Charles Aubeny (GE2177_7341)	Zoom	
Behavioral studies on inclined or rounded tip piles using 3D printed samples and FE analysis; Jaehong Kim, Junyoung Ko, Dohyun Kim* (GE2177_7358)	Onsite	

Session T4A	14:00 - 15:30	Room A: #515
Session Title: Advancements in Geomechanics and Engineering (4th US-Korea Geotechnical Workshop) IV Chairman: Ilhan Chang Zoom ID: 821 217 3937 PW: 000222		
Surface erosion behavior of MICP-treated sands: Experimental study and numerical modeling; Soo-Min Ham*, Min-Kyung Jeon, Tae-Hyuk Kwon (GE2177_7448)	Onsite	
Prediction of CBR for coarse- and fine-grained soils using the GMDH model; Mintae Kim, Osman Okuyucu*, Ertugrul Ordu, Seyma Ordu, Ozkan Arslan, Junyoung Ko (GE2177_7360)	Zoom	
Cation-crosslinked biopolymer soil treatment and field implementation for slope surface protection; Minhyeong Lee*, Ilhan Chang, Gye-Chun Cho (GE2177_7366)	Onsite	
Utilization of carrageenan as alternative eco-biopolymer for improving the strength of liquefiable soil; Regina Aprilia Zulfikar*, Hideaki Yasuhara, Naoki Kinoshita, Heriansyah Putra (GE1169_7399)	Zoom	
Machine learning for geotechnical properties and soil type mapping; Hyeong-Joo Kim, Kevin Bagas Arifki Mawuntu*, Hyeong-Soo Kim, Tae-Woong Park, James Vincent Reyes, Jun-Young Park, Yeong-Seong Jeong (GE1167_7264)	Onsite	
Fixation of soybean extract method for biocatalyst in calcite precipitation method; Heriansyah Putra*, Baiq Heny Sulistiawati, Hideaki Yasuhara, Minson Simatupang, Dede Heri Yuli Yanto (GE1150_7300)	Onsite	
Dynamic behavior of shore connection of submerged floating tunnel under dynamic load; Seok-Jun Kang*, Gye-Chun Cho (GE1162_7275)	Zoom	
Triaxial Test Behavior of CSA-treated Sand with High Confining Pressur; James Innocent Ocheme*, Ruslan Khamitov, Alfrendo Satyanaga, Jong Kim, Sung-Woo Moon (GE1169_7274)	Zoom	

TECHNICAL PROGRAM

Stability analysis of the final slope for Highwall mining by empirical and numerical modeling; Zulfahmi Zulfahmi*, Mas Agus Azizi (GE1160_7340)	Onsite
Modelling temperature & relative humidity effects in construction project duration in Muscat; Maryam Al-Ajmi, Mubarak Al Alawi*, Issa Al-Harthy, Khalifa Al-Jabri (GE1167_7263)	Zoom
Experimental study on cyclic shear behavior of biopolymer treated soils; Dong-Yeup Park*, Ilhan Chang, Gye-Chun Cho (GE2177_7451)	Onsite

Session T5A **15:40 - 17:10** **Room A: #515**

Session Title: Advancements in Geomechanics and Engineering (4th US-Korea Geotechnical Workshop) V

Chairman: Yeong-Man Kwon

Zoom ID: 821 217 3937 PW: 000222

Experimental study on the BPST effect on penetration resistance and load of pile foundations; Mintae Kim*, Suhyuk Park, Ilhan Chang (GE2177_7388)	Onsite
Characterizing the Lateral Behavior of Helical Piles from Correlated CPT Results Using Modified p-y Springs and Strain Gauge Instrumentation; Hyeong-Joo Kim, James Vincent Reyes*c, Hyeong-Soo Kim, Peter Rey Dinoy, Yeong-Seong Jeong, Jun-Yong Park, Kevin Bagas Arifki Mawuntu (GE1160_7258)	Onsite
Harsh stress level design for accelerated life test of HLW repository monitoring sensor; Changhee Park*, Hyun-Joong Hwang, Chang-Ho Hong, Gye-Chun Cho (GE1158_7482)	Onsite
Effect of Particle Shape Factor on Abrasive Kinetic Energy; Hyun-Joong Hwang*, Yohan Cha, Tae-Min Oh, Gye-Chun Cho (GE1172_7459)	Onsite
Numerical Evaluation of Segmental Lining System with Compressible Layer in Deep Soft Rock; Joohyun Park*, Seok-Jun Kang, Jun-Beom An, Gye-Chun Cho (GE2177_7381)	Zoom
Numerical evaluation of ground settlements induced by groundwater inflow to the tunnel; Jun-Beom An*, Joohyun Park, Hyun-Joong Hwang, Gye-Chun Cho (GE2177_7457)	Onsite
Crack Quantification Method for Concrete Tunnels with RGB-D; Jin Kim*, Seungbo Shim, Gye-Chun Cho (GE2177_7439)	Onsite
Analysis of Axially Loaded Large Capacity Helical Piles using the Load Transfer Method; Hyeong-Joo Kim, Peter Rey Dinoy*, Hyeong-Soo Kim, James Vincent Reyes, Tae-Woong Park, Yeong-Seong Jeong, Jun-Young Kim (GE1164_7298)	Poster

Geomechanics and Engineering (Pre-recorded session)

Case Studies on Numerical Analysis of Slope Stability of National Expressway in Northern Taiwan; Shong-Long Chen*, Yi-Hao Tsai, Xiao-ling Zhang, Shen-Chung Lee, Chih-Yu Chu (GE1168_7369)	Video
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Environmental Science and Technology (Pre-recorded session)

Effect of Illumination on Productivity, Safety, and Health of Mine Operators; Aditya Prakash, Hrushikesh Naik (ES1304_7220)	Video
Development of statistical model and parameter analysis for optimal water loss control target; DOOIL KIM*, Sang-hyuk Han, In-hwan Hyun (ES1309_7492)	Video

TECHNICAL PROGRAM

Membrane and Water Treatment (Pre-recorded session)

Addition of acyl-homoserine lactones and vanillin to regulate biofilm characteristics and its implication on membrane biofouling; Wonjung Song*, Chehyeun Kim, Jiwon Han, Jihoon Lee, Jiang Zikang, Jihyang Kweon (MW2265_7428)	Video
Electrodialysis with a channeled stack for high strength cadmium removal from wastewater; Kyung Jin Min*, Hyo Jin An, Hyen-Gon Shin, Ki Young Park (MW2265_7435)	Video
Effect of microplastics on the ecotoxicity of Pb; Ruri Lee, Eun Hea Jho* (MW2265_7441)	Poster
Characteristic and evaluation of alumina-based microfiltration ceramic membrane; Kanghee cho*, Hyunsoo Kim, Oyunbileg Purev, Eunji Myung, Nagchoul Choi (MW2265_7442)	Video
Removal of hexavalent chromium by alkaline pretreated natural zeolite-based nZVI material; Sungjun Bae, Minhee Choi (MW2265_7471)	Video
Removal of phosphorus by Fe leaching solution from various Fe containing minerals; Sungjun Bae, Jueun Jung* (MW2265_7472)	Video
Preparation of low-cost functional ceramic membrane using waste cast iron and application to remove selenium from aqueous solution; Chang-Gu Lee*, Kang-hee Cho, Seong-Jik Park, Nag-choul Choi (MW2265_7486)	Video
Evaluation of the reduction effect of NPS under SSP climate change scenarios using SWAT in Doam dam; Sayed Shah Jan Sadiqi*, Eun-Mi Hong, Won-Ho Nam (MW2265_7479)	Video
Application of thermally-activated Mactra veneriformis shells for removing phosphate from wastewater; Yeon-Jin Lee*, Jae-In Lee, Chang-Gu Lee, Seong-Jik Park (MW2265_7490)	Video

Concrete Construction

Session T3B	11:30 – 13:00	Room B: #519
Session Title: Composite Materials and Structures Subject to Dynamic and Other Loads		
Chairman: Seong Ryong Ahn		
Zoom ID: 606 231 7007 PW: 000111		
Recent advances in data-driven multiscale analysis methods of complex reinforced concrete structures; In Ho Cho*, Mohammed Bazroun, Yicheng Yang (CC1507_7505)		Onsite
Numerical investigation of the infill-induced short column effect in reinforced concrete frames; Garret Wilkenson Sia*c+, Andres Winston Oreta, Rodolfo Jr. Mendoza (CC1506_7378)		Onsite
Mechanics of hyperelastic composites reinforced with fibers resistance to extension and flexure; CHUN IL KIM*, Suprabha Islam, Seyed Ehsan Bolouri (MR1353_7196)		Onsite
Effect of High Strain Rate on Tensile Strength of SHCCs in Comparison to that of FRHSCs; Shasha Wang*, Hoang Thanh Nam Le (CC1502_7301)		Zoom
Taguchi Method Experimental Design Against Self Healing Concrete Parameters; Dzulfiqar Abdurrahman*+, Heriansyah Putrac (CC1508_7319)		Onsite
Numerical Study on Free Vibration Analysis of Detailed and Homogenized Models for FG-CNTRC Beam; Hyeong-Jin Kim*, Jin-Rae Cho (MR1353_7197)		Zoom
Optimization of mineral admixtures and water-reducing and retarding admixture for high-performance concrete; Chao-Wei Tang* (CC1502_7218)		Video
Behavior of Large Precast Box Culverts with Prestressing in Longitudinal Slope; Shinya SUKEGAWA*, Yuki SAKOI, Takuma GOTO (CC1504_7438)		Video
ML modelling on strength reduction of fire-damaged RC column via numerical data; HyunKyoung Kimc, HyoGyoung Kwak*, JuYoung Hwang (CC1506_7363)		Video

TECHNICAL PROGRAM

Structural Monitoring and Maintenance

Session T4B	14:00 – 15:30	Room B: #519
Session Title: Smart Sensing and Monitoring Chairmen: Hoon Sohn, Soojin Cho Zoom ID: 606 231 7007 PW: 000111		
Structural displacement estimation using a low-cost sensing system combining millimeter-wave radar and accelerometer; Zhanxiong Ma*, Jaemook Choi, Hoon Sohn (SM2571_7397)		Onsite
Continuous structural displacement estimation combining accelerometer, vision and infrared cameras; Jaemook Choi*, Zhanxiong Ma, Hoon Sohn (SM2571_7398)		Onsite
Capsule-Like Smart Aggregate for Portable Impedance Monitoring in Concrete Structures; Quang-Quang Pham*, Quoc-Bao Ta, Ngoc-Loi Dang, Jeong-Tae Kim (SM2571_7416)		Onsite
Leveraging image processing for very thin crack detection using deep learning; Suk-Kyoung Bae, Byunghyun Kim, Soojin Cho* (SM2571_7430)		Onsite
Characterization of Freeze-Thaw Damage in Concrete Using Contactless Ultrasonic Measurements; Homin Song*, Sangmin Lee, Yu Song, John S. Popovics (SM2571_7436)		Onsite
Road Roughness Assessment Using Synthetic Images based on Deep Convolutional Neural Network; YoungJae Lee*, Robin Eunju Kim (SM2571_7463)		Onsite
Physics-informed neural network for dynamic responses of structures based on monitoring data; Jaehwan Jeon*, Junho Song (SM2571_7497)		Onsite

Session T5B	15:40 – 17:10	Room B: #519
Session Title: Structural Health Monitoring Techniques Chairmen: Sung-Han Sim, Jong-Woong Park Zoom ID: 606 231 7007 PW: 000111		
Pointwise vibration classification of long-span bridges using a sequence-to-sequence model; Sunjoong Kim*, Sun-Ho Lee (SM2572_7395)		Onsite
In-situ Layout Optimization of Prefabricated Structural Members in Offsite Construction; Junhwa Lee*, Sung-Han Sim (SM2572_7400)		Onsite
Strand Breakage Monitoring in Prestressed Concrete Anchorage using Raspberry Pi-Platformed Impedance Measurement System; Quoc-Bao Ta*, Quang-Quang Pham, Jae-Hyung Park, Jeong-Tae Kim (SM2572_7417)		Onsite
3D Pose Measurement of Bridge Bearings Based on Computer Vision; Jonghwa Hong*, Junhwa Lee, Sung-Han Sim (SM2572_7423)		Onsite
Automated Damage Detection for Building Elements of Temporary Structures using Laser Profile; Jonghwa Hong, Sung-Han Sim* (SM2572_7452)		Onsite
Robust vision-based displacement measurement and acceleration estimation using Kalman filter; Jongbin Won*, Minhyuk Song, Gunhee Kim, Jong-Woong Park (SM2572_7455)		Onsite
Collision risk detection system between equipment and workers using CCTV on construction site; Jaehwan Seong*, Hyung-Soo Kim, Hyung-Jo Jung (SM1568_7489)		Onsite
Hyperbox modeling of retrofitted RC structures; Alvin Chua*, Kathleen Aviso, Jason Maximino Ongpeng (SM1552_7302)		Onsite
Bridge component recognition using unmanned aerial vehicle; Hyunjun Kim*, Yasutaka Narazaki, Billie F. Spencer (SM2572_7515)		Onsite
Strand Breakage Identification in Prestressed Anchorage Structures Using Stress Variation-Based Artificial Neural Networks; Ngoc-Loi Dang*, Ngoc-Tuong-Vy Phan, Quoc-Bao Ta, Quang-Quang Pham, Jeong-Tae Kim (SM2572_7418)		Video

Structural Monitoring and Maintenance

(Pre-recorded session)

Analyzing C-SPSWs with outriggers for tall buildings under lateral loads; Cigdem Avci-Karatas (SM1559_7192)		Video
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TECHNICAL PROGRAM

Ocean Systems Engineering

(Pre-recorded session)

Static stability of a submerged floating tunnel module in wet tow; Ikjae Lee*, Chungkuk Jin, Moohyun Kim (OS2621_7420)	Video
An overview of theoretical approaches to characterize the self-healing behavior of microcapsule-embedded polymeric composites; Dongwoo Jin*, Taegeon Kil, Haengki Lee (OS2621_7507)	Video
Impact Load Identification Method based on Artificial Neural Network for Submerged Floating Tunnel Under Collision; SeungMin Baek*, JaeChan Park, Hyung-Jo Jung (OS2621_7501)	Video
Characterization of Single and Dual Section SFTs through 2-D Wave Flume Experiment; Gyu-Jin Kim*, Hyo-Gyoung Kwak (OS2621_7511)	Video
Damage detection for real operating bridge using nonlinear ultrasonic characteristics; Jinho Jang*, Hoon Sohn (OS2621_7520)	Video

TECHNICAL PROGRAM

Computational Design

Session W3A		14:30 - 16:00	Room A: #515
Session Title: Computational Design and Experimental Method in Prestressed Concrete and Other Structures			
Chairmen: Thomas Kang, Seung Yong Jeong			
Zoom ID: 821 217 3937 PW: 000222			
Assessment of PCCV axial and flexural load capacity using UHPC design methodology; Seung Heon Lee*, Thomas Kang (CD2665_7211)			Onsite
Shear strength prediction of prestressed concrete based on machine learning; Sang Min Lee*, Thomas Kang (CD2665_7214)			Onsite
An enhanced cooperation between multi-search strategy and parallel differential evolution for optimal design problems; Tan-Tien Nguyen*, The-Viet Ha, Quoc-Hung Nguyen (CD1655_7387)			Onsite
Numerical analysis on projectile collision to PSC panels; Seong Ryong Ahn*, Thomas Kang (CD2665_7215)			Onsite
A numerical study on local web buckling behaviour of coped beams under combined axial and bending loads; Michael C.H. Yam*, Mingyuan Zhang, Ke Kec, Xue-Mei Lin, Kwok-Fai Chung (CD1659_7433)			Zoom
Prediction of long-term deflection for post-tensioned slabs affected by construction load; Suhyun Park*, Thomas Kang (CD2665_7225)			Onsite
Solution of hyperbolic bioheat models by a fully-adaptive truly-explicit time-marching method; Delfim Soares*, Lucas Ruffo Pinto, Webe Joao Mansur (CD1654_7201)			Onsite
Reliability-based bi-directional evolutionary topology optimization of thermoelastic structure; Muayad Habashneh, Majid Movahedi Rad* (CD1655_7230)			Onsite

Session W3B		14:30 - 16:00	Room B: #519
Session Title: Innovative structural design and analysis for buildings and infrastructures			
Chairmen: Hyeon-Jong Hwang, Jang-Woon Baek			
Zoom ID: 606 231 7007 PW: 000111			
Seismic Performance of Short Coupling Beams with Various Reinforcement Layouts; Soo-Hyun Kim*, Hyeon-Jong Hwang (CD2666_7353)			Onsite
Prediction of anchorage performance of headed bars using artificial neural networks; Jang-Woon Baek*, Hyeon-Jong Hwang (CD2666_7375)			Onsite
Static load test on progressive collapse resistance of precast concrete structure in Korea; Sung Hyun Kim*, Su-Min Kang, Hyeon-Jong Hwang, Ha-Jin Choi, Hee-Do Kim (CD2666_7384)			Onsite
Review of timber construction manuals in designing traditional building; Hafshah Salamah*, Thomas Kang (CD2666_7217)			Onsite
Bond Behavior of GFRP and Steel Bars in Grouted Spiral Connections; Seyed Jamal Aldin Hosseini*, Ahmad Baharuddin Abd. Rahman, Hyeon-Jong Hwang, Seyed Kamal Aldin Hosseini, Su-Min Kang (CD2666_7525)			Zoom
Interfacial shear strength of steel angle anchors welded to U-shaped steel section; Hyeongyeop Shin*, Thomas Kang (CD2666_7207)			Onsite

Session W3C		14:30 - 16:00	Room C: #522
Session Title: Computational Methods and Structural Mechanics			
Chairmen: Hyun-Duk Seo, Dong-Hwa Lee/Phill-Seung Lee			
Zoom ID: 392 999 5345 PW: 000444			
Fluid-structure interaction analysis using a coupled SPH-FEM model for free surface flows; Hyun-Duk Seo*, Hyung-Jun Park, Moonsu Park, Phill-Seung Lee (CD2667_7328)			Onsite
Enhanced composite time integration schemes for conservative nonlinear systems; Wooram Kim* (CD2667_7333)			Onsite
The MITC4+ shell finite element with a simplified assumed membrane strain field; Hyung-Gyu Choi*, Phill-Seung Lee (CD2667_7382)			Onsite

TECHNICAL PROGRAM

Explicit time-domain analyses considering adaptive formulations with sub-cycling decomposition; Lucas Ruffo Pinto*, Delfim Soares, Webe Joao Mansur (CS1201_7200)	Onsite
Design loads on floating solar photovoltaic system based on ASCE and DNV standards; Gihwan Kim*, Dong-Hwa Lee, Phill-Seung Lee, Kiwook Ahn, Jinho Byun, Jaejeong Lee (CD2667_7329)	Video

Session F3C	11:30 – 13:00	Room C: #522
Session Title: Structural Safety Evaluation and Health Monitoring (The 1st CSUST-CBNU Joint Seminar)		
Chairmen: Lei Wang, Deuckhang Lee		
Zoom ID: 392 999 5345 PW: 000444		

Evaluation of Residual Fatigue Strength of Concrete Based on Machine Learning Approaches; Wei Zhang*, Deuckhang Lee, Won-Jun Lee (CD2668_7449)	Onsite
Acoustic Emission based Crack Localization using Convolutional Neural Network; Van Vy*, Hyungchul Yoon (CD2668_7504)	Onsite
Crack propagation analysis of cement based materials correlated with microstructure; Ji-Su Kim* (CD2668_7524)	Onsite
Seismic performance evaluation of post fire affected unconfined and confined Reinforced Concrete – SMRF Structures; Pooja L*, Cinitha Appu, Manu K (CD1659_7256)	Zoom
Study on Flexural Performance of One-Way RC slab strengthened by FRCM; Yujae Seo, Hyunjin Ju* (CD2668_7476)	Video
Experimental study on compression behaviors of Fe-SMA confined concrete; Saebyeok Jeong*, Donghyuk Jung (CD2668_7508)	Video
Online Sensor Fault Diagnosis for Structural Health Monitoring Based on Meta-learning; Lei Wang, Dukang Huang*, Ke Huang (CD2668_7519)	Video
Evaluation of edge line estimation algorithms for accurate dimensional quality assessment of PC slabs; Fangxin Li*, Julian Pratama Thedja, Minkoo Kimc, Sung-Han Sim (CD2668_7533)	Video

Session F3B	11:30 – 13:00	Room B: #519
Session Title: Computational Design and Experimental Method in Reinforced Concrete		
Chairmen: Thomas Kang, Hajin Choi, Changsoo Kim		
Zoom ID: 606 231 7007 PW: 000111		

In situ characterization of ASR damage in concrete using contactless ultrasonic measurements; Homin Song*, Steven Feldman, John Popovics (CD2664_7446)	Onsite
Vision-based Input-Output System identification for pedestrian suspension bridges; Jeonghyeok Lim, Hyungchul Yoon* (CD2664_7500)	Onsite
Shear strength of RC deep beam predicted by support vector regression; Gia Toai Truong*, Changsoo Kim (CD2663_7498)	Zoom
Development of GPR imaging algorithm for detecting void-like defects in precast concrete structure; Hajin Choi*, Taemin Lee, Sung-Hyun Kim, Su-Min Kang, Hyeon-Jong Hwang (CD2664_7503)	Onsite
Analytical study on lateral cyclic responses of RC columns retrofitted with Fe-based SMA; Saebyeok Jeong*, Donghyuk Jung (CD2664_7509)	Onsite
Bearing capacity ratio control of existing piles using external post-tensioning; Giwan Noh*, Thomas Kang (CD2663_7530)	Onsite

Session F3A-1	11:30 – 13:00	Room A: #515
Session Title: Forensic Structural & Geotechnical Engineering		
Chairmen: Yong-Hoon Byun, Seungjun Kim		
Zoom ID: 821 217 3937 PW: 000222		

Pattern recognition-based unmeasured structural response estimation for bridges using LSTM; Seongi Min*, Ikgyeom Kim, Changhyun Hwang, Keesei Lee, Donghwi Jung, Seungjun Kim (CD2669_7464)	Onsite
Field study on smart monitoring systems using electromagnetic waves for evaluating the integrity of bored piles; Jong-Sub Lee*, Dongsoo Lee, Seokgyu Jeong, Goangseup Zi, Jung-Doung Yu (CD2669_7470)	Onsite

TECHNICAL PROGRAM

Prediction of calcium leaching resistance of binary blended cement composites; Yujin Lee, Seunghoon Seo, Ilhwan You, Taesup Yun, Goangseup Zi* (CD2669_7475)	Onsite
Evaluation of stress-strain path for soils by learning Modified cam-clay model with recurrent neural network; Seokyong lim*, Taesup Yun (CD2669_7483)	Onsite
Seismic Performance Evaluation of Post-Tensioned RC Exterior Beam-Column Connections; Donghyuk Jung*, Sanghee Kim, Thomas Kang (CD2669_7485)	Onsite
Temperature distributions of concrete macrocracks with different crack shapes by passive method; Arum Jang*, Sanggi Jeong, Min Jae Park, Thomas Kang, Young K. Ju (CD2669_7493)	Onsite
Characterization of stacked geotextile tube structure using digital image correlation; Dong-Ju Kim*, Dong Geon Son, Jong-Sub Lee, Thomas Kang, Tae Sup Yun, Yong-Hoon Byun (CD2669_7494)	Onsite
Strength and stiffness characteristics of cement paste-slime mixtures for embedded pile; Yong-Hoon Byun*, Mi Jeong Seo, WooJin Han, Sang Yeob Kim, Jong-Sub Lee (CD2669_7495)	Onsite

Session F3A-2	11:30 – 13:00	Room A: #515
Session Title: Forensic Water Resource & Environmental Engineering		
Chairmen: Chul Sang Yoo, Donghwi Jung		
Zoom ID: 821 217 3937 PW: 000222		

Low-energy electrochemical water treatment: Study on the flow-electrode capacitive deionization; Jihun Lim, Seungkwon Hong* (CD1655_7468)	Onsite
Development of a Multiscenario approach for Urban Drainage System Planning; Soon Ho Kwon*, Donghwi Jung (CD2670_7465)	Onsite
Artificial Neural Network Metamodel for Water Distribution System Pressure Estimation; Sanghoon Jun, Donghwi Jung* (CD2670_7469)	Onsite
Validation of an Infiltration Model Using Intermittent Waterfall Occurrence Data in Volcanic Jeju Island, Korea; Minseok Kang, Chulsang Yoo* (CD2670_7453)	Video
Investigating the Relationship between Flow Fluctuation and Basin Characteristics of the Dam Basins; Jinwook Lee*, Chulsang Yoo, Changhyun Jun (CD2670_7466 F9)	Video

Computational Design (Pre-recorded session)

Cost improvement of 2D FRAME plastic analysis with CFT columns; Seonghun Kim*, Hyo_Gyoung Kwak (CD1651_7355)	Video
Moment-Curvature Approach for Blast and Collapse Analysis of RC frames; SeokJun Ju*, Hyo-Gyoung Kwak (CD1659_7356)	Video
Free Vibration Analysis of Homogeneous Isotropic Toroidal Shells; Chih-Ping Wu*, Yi-Chen Hung (CD1659_7268)	Poster

TECHNICAL PROGRAM

Coupled Systems Mechanics

Session T3C	11:30 - 13:00	Room C: #522
Session Title: Coupled Mechanics between Fluid Flow and Deformable Structure I		
Chairmen: Wonjung Kim, Daegyoun Kim		
Zoom ID: 392 999 5345 PW: 000444		
Experimental study on the starting jet through the flexible circular nozzle; Daehyun Choi*, Hyungmin Park (CS2216_7312)		Onsite
Physics informed neural networks for fluid-flow-induced flutter of a flexible cylinder; Jeongsu Lee* (CS2216_7314)		Onsite
Investigation of contact line motions of EGaIn for microstructure fabrication; Sangyun Jung*, Wonjung Kim (CS2216_7324)		Onsite
Study for regulating flow fluctuation of peristaltic pump using a spherical elastic damper.; Keunhwan Park, Sanghyup Lee*, Anna Lee, Jinwoo Lee (CS2216_7325)		Onsite
Three-dimensional deformation of a multi-segmented structure by fluid flow; Minho Song*, Junkyu Ham, Daegyoun Kim (CS2216_7334)		Onsite
Session T4C	14:00 - 15:30	Room C: #522
Session Title: Coupled Mechanics between Fluid Flow and Deformable Structure II		
Chairmen: Wonjung Kim, Daegyoun Kim		
Zoom ID: 392 999 5345 PW: 000444		
Drag optimization of a sphere using a wind-adaptive deformable structure; Jooha Kim*, Seokbong Chae (CS2216_7351)		Onsite
Ripples at Edge of Thin Elastic Sheets Under Differential Swelling; Hyunsu Kwak*, Kanghyun Ki, Junsik Kim, Jonghyun Hwang, Anna Lee (CS2216_7352)		Onsite
Kinematic of a flexible foil near an air-water interface; Min Sik Kang*, Sung Goon Park (CS2216_7364)		Onsite
Optimal leaf vein thickness design principle; Sungdo Hong*, Keunhwan Park (CS2216_7365)		Onsite
Impacting water drop onto micropores; Choongyeop Lee* (CS2216_7391)		Onsite

TECHNICAL PROGRAM

GECE 5th Floor Plan

