			•	ing Graduate Research Conference (IEGRC) 202	4	
Start	Finish		Beyond Green	: Transforming Research into Sustainability		
8:30 AM	9:00 AM			Attendees Arrival and Registration Conference Opening Ceremony (Center Stage 1)		
				Host: Mr Seongyeol Park		
9:00 AM	9:15 AM			President, Graduate Infrastructure Engineering Society Welcome Message		
				Professor Andrew Western Head of Department of Infrastructure Engineering		
				Opening Address		
9:15 AM	9:25 AM	Professor Mark Cassidy Deputy Vice-Chancellor (Research), The University of Melbourne				
		Keynote Address (Center Stage 1)				
9:25 AM	9:50 AM	Topic: Pioneering Holistic Solutions for Sustainable Infrastructure M				
		CEO, Intelligent Transport Systems Australia				
9:50 AM	10:30 AM	Group Photo and Morning Tea (Center Stage 1 and Meeting Place Foyer) Morning Sessions				
10:30 AM	12:30 AM	Forum 1 (Center Stage 1) Structural Engineering Chair: Dr Tharaka Gunawardena	Forum 2 (Meeting Place 1) Geotechnical Engineering Chair: Dr Samintha Perera	Forum 3 (Meeting Place 2) Environmental Hydrology and Water Resources Chari: Dr Wim Brown	Forum 4 (Meeting Place 3) Geomatics Chair: Dr Amir Khodabandh	Forum 5 (Meeting Place 4) Ocean Engineering + Energy + Engineering Management Chair: Dr Joey Voermans
10:30 AM	10:40 AM	Probability Based FEM of Corroded RC Beams	Field Testing and Numerical Modelling of Battered Minipile Systems	Worse Droughts Amidst Increasing Precipitation and and Impact on Water Resources	Ionospheric Modelling for Precise Satellite Positioning	Optimizing Sea State Estimates from Vessel Motion
		Aliakbar Yaghoubzadehfard Feasibility of Repurposing Liquified Natural Gas (LNG) Tanks	Alberto Escobar Arrangement of shared anchors and distribution	Seongyeol Park Improved decision making in fluoride removal	Parvaneh Sadegh Nojehdeh Pole-NN: Few-Shot Classification of Pole-Like Objects in Lidar	Anran Duan Transfer Function for Adaptive Methods of Estimating
10:40 AM	10:50 AM	for Liquid Hydrogen Storage Amila Premakumara	of force system Bin Yan	Akshay Kashyap	Point Clouds Cipher Zhang	Directional Spectra Using a Fully Nonlinear Wave Model Omar Zain Torres Rios
10:50 AM	11:00 AM	Module-to-core Connection for Modular Tall Building	Numerical modelling of pullout of suction bucket under varying pullout rates	Formation, Persistence, and Breakdown of Thermal Stratification in River Waterholes	Developing 3D Spatial Graph Database for Underground Utility Networks	Numerical simulations of ocean surface waves along the Australian coast with a focus on the Great Barrier Reef
LU.JU AM	II.OU API	Arjun Kandel Experimental and numerical study into vehicular collision on	Debiprasad Bhakta Integrated Modelling of the Mooring System for Floating Wind	Asma Rabiei Decision Making under Deep Uncertainty for Environmental	Ensiyeh Javaherian Pour	Xianghui Dong Evaluating Hindcast Accuracy for Swell Arrival Times in the
11:00 AM	11:10 AM	the bridge parapet	Turbines	Water Management	Al-Driven Land Administration for Large Infrastructure Projects Hamid Hosseini	Indian Ocean
		Chuan Tong Creating Housing Solutions for Displaced Populations	Yanyan Guo Integrating Physics-Informed Neural Networks with Transfer Learning for Modelling Turbidity Currents and Sediment	Farkhondeh Sadat Hashemi Madani Evapotranspiration Estimated Using Solar-Induced Fluorescence (SIF) from Airborne Hyperspectral Images over	BIM-based Land Administration Data Model for Large	Xiaoyu Sun Submerged Floating Tunnel High-Potential Energy System
11:10 AM	11:20 AM	Creating Housing Solutions for Displaced Populations Kavitha Vipulananda	Transport	Agricultural Fields	Infrastructure Projects Lanxuan Shen	Submerged Floating Tunnel High-Potential Energy System Wei Lin
		Macro Modelling of Buildings for Seismic Performance	Farid Fazel An Elasto-Viscoplastic Soil Constitutive Model for	Jia Xu Towards Robust Monitoring of Total Suspended Solids (TSS) in the Ungauged Urban Reaches of Downstream Ganges River		Advancing Retrofit Building Designs: A Multi-Objective
11:20 AM	11:30 AM	Evaluation	An Elasto-Viscoplastic Soil Constitutive Model for Crashworthiness Evaluation of Barrier Piles	the Ungauged Urban Reaches of Downstream Ganges River, India, Using Sentinel-2 Imagery and Machine Learning Approaches	Spatially-enabled 3D Asset Recognition in Industrial Plants Masoud Kamali	Optimization Approach for Climate Change Adaptation
		Deelaka Sathsara Jayaweerarathne A numerical model to predict thermo-mechanical behavior of	Fatemeh Safari Honar Plasticity Analysis of Drag Anchor Installation Considering the	Kunwar Abhishek Singh		Duc Minh Le
11:30 AM	11:40 AM	molten salt thermal energy storage tank	Integrated Mooring System	Discrepancy between Simulated L-band Backscatter and UAVSAR Observations in a Wheat Field	Scan-to-SARBIM: Producing a Structural-Analysis-Ready BIM from Point Clouds	Mult-objective Optimisation of Pre-treatment Process for Anaerobic Digestion of Household Food and Garden Waste
		Santosh Mishra Importance of Integration between Sawmilling Process and Prefabrication Manufacturing Requirements	Hong Zhu Early Detection of Internal Erosion in Earth Dam	Lilangi Wije singhe Distinct contribution of the blue region and solar-induced fluorescence to needle nitrogen and phosphorus assessment	Mojtaba Akhoundi Khezrabad Deep Learning for Vegetation Segmentation from MLS Point Cloud	Kexin Hu Depth-Varying Non-Uniform Corrosion effects on Marine Concrete Pile structures
11:40 AM	11:50 AM	Harshani Dissanayake	Sanjit Kumar Bhattarai	Peiye Li	Aditya	Rishwanth Darun A S
11:50 AM	12:00 PM	Smart Al Enabled Robotic Technologies for Plastic Waste Sorting	Three-dimensional plate anchor uplift behaviors in sand	The Role of Soil Moisture, Evapotranspiration, and Baseflow in Annual Maximum Flood Events	Al-augmented construction cost estimation	Effects of gait at different walking speeds on bone fracture healing in patients with various body weights
		Hasala Sakvithi Rohanawansha Investigation on Impact Resistance of Concrete Barrier	Zhenyu Liu The role of the Particle Size Distribution in the thermo-	Posa Poornima Chandra Lekha Transferability of L-band SAR soil moisture retrieval parameters	Peyman Jafary A Multi-Temporal Remote Sensing Approach to Analysing	Qianjun Ding Toward Engineering Education Transformation with Threshold
12:00 PM	12:10 PM	Strengthened with UHPFRC Jie Sun	volumetric response of dry sands Luis Villegas Negrette	across surface conditions and view angles Shilpa Koyyan	Disaster Impacts on Informal Settlements Ricardo Camacho Castilla	Learning in First Nations Australian Engineering Aurora Greane
12:10 PM	12:20 PM	Al-Driven Loco-manipulation for Quadruped Robots	Multi-Scale Investigation of Mechanical and Hydrological Performance of Permeable Concrete Pavement	Community priorities for climate change adaptation		Assessment of the Thermal Performance of Large-Scale Liquid Hydrogen Storage Tanks (Structural Engineering)
		Chuan Qin	Zohreh Fakhar Shakeri	Madeline Grupper		Upeka Gunarathne Enhancing the Recycled Concrete aggregate properties via
12:20 PM	12:30 PM	Dynamic Carbon Accounting Framework for Engineered Wood Production	Performance analysis of H2 production system using hot sedimentary aquifer geothermal			Thermo mechanical treatment method (Structural
22.20111						Engineering)
12:30 PM	1:30 PM	YI Qian	Maryam Hamlehdar	Lunch		
12:30 PM				Afternoon Sessions	Forum 4 (Meeting Place 3)	Engineering) Vithushanthini Arulkumar
	1:30 PM 3:30 PM	Forum 1 (Center Stage 1) Structural Engineering Chair: A/Prof Xumei Liu	Forum 2 (Meeting Place 1) Geotechnical Engineering Chair: Dr Philip Christopher		Forum 4 (Meeting Place 3) Geomatics Chair: Dr Serene Ho	Engineering) Vithushanthini Arulkumar Forum 5 (Meeting Place 4) Transport Chair: Prof Russel Thompson
12:30 PM		Forum 1 (Center Stage 1) Structural Engineering	Forum 2 (Meeting Place 1) Geotechnical Engineering	Afternoon Sessions Forum 3 (Meeting Place 2) Environmental Hydrology and Water Resources Chair: Dr Yuhang Zhang When is a knowledge gap filled in environmental monitoring?	Geomatics Chair: Dr Serene Ho	Engineering) Vithushanthini Arulkumar Forum 5 (Meeting Place 4) Transport
12:30 PM	3:30 PM	Forum 1 (Center Stage 1) Structural Engineering Chair: A/Prof Xumei Liu Design of high-strength concrete filled steel tubular columns under nonuniform fires Lalita Lama Development of Waste Wood Composites for Load-bearing	Forum 2 (Meeting Place 1) Geotechnical Engineering Chair: Dr Philip Christopher Mapping Microannular Voids Formation on Existing Wellbore Cementfor Underground Hydrogen Storage Amirthan Thirukumaran Numerical assessment of ground heat exchangers	Afternoon Sessions Forum 3 (Meeting Place 2) Environmental Hydrology and Water Resources Chair: Dr Yuhang Zhang	Geomatics Chair: Dr Serene Ho Equi-GSPR: Equivariant SE(3) Graph Network Model for Sparse	Engineering) Vithushanthini Arulkumar Forum 5 (Meeting Place 4) Transport Chair: Prof Russel Thompson Modelling the effects of travel time use on mode choice and the
12:30 PM	3:30 PM	Forum 1 (Center Stage 1) Structural Engineering Chair: A/Prof Xumei Liu Design of high-strength concrete filled steel tubular columns under nonuniform fires Lalita Lama	Forum 2 (Meeting Place 1) Geotechnical Engineering Chair: Dr Phillip Christopher Mapping Microannular Voids Formation on Existing Wellbore Cement for Underground Hydrogen Storage Amirthan Thirukumaran	Afternoon Sessions Forum 3 (Meeting Place 2) Environmental Hydrology and Water Resources Chair: Dr Yuhang Zhang When is a knowledge gap filled in environmental monitoring? Xiaoyan Dai	Geomatics Chair: Dr Serene Ho Equi-GSPR: Equivariant SE(3) Graph Network Model for Sparse Point Cloud Registration Xueyang kang	Engineering) Vithushanthini Arulkumar Forum 5 (Meeting Place 4) Transport Chair: Prof Russel Thompson Modelling the effects of travel time use on mode choice and the value of travel time savings Ana Luiza Santos de Sa
12:30 PM 1:30 PM 1:30 PM	3:30 PM 1:40 PM	Forum 1 (Center Stage 1) Structural Engineering Chair: A/Prof Xumei Liu Design of high-strength concrete filled steel tubular columns under nonuniform fires Lalita Lama Development of Waste Wood Composites for Load-bearing Engineered Wood Products	Forum 2 (Meeting Place 1) Geotechnical Engineering Chair: Dr Philip Christopher Mapping Microannular Voids Formation on Existing Wellbore Cement for Underground Hydrogen Storage Amirthan Thirukumaran Numerical assessment of ground heat exchangers performance in a pit lake environment	Afternoon Sessions Forum 3 (Meeting Place 2) Environmental Hydrology and Water Resources Chair: Dr Yuhang Zhang When is a knowledge gap filled in environmental monitoring? Xiaoyan Dai Leveraging On-Site River Data and Heteroskedasticity in Bayesian Rating Curves	Geomatics Chair: Dr Serene Ho Equi-GSPR: Equivariant SE(3) Graph Network Model for Sparse Point Cloud Registration Xueyang kang Open World Object Detection with Vision-Language Model	Forum 5 (Meeting Place 4) Transport Chair: Prof Russel Thompson Modelling the effects of travel time use on mode choice and the value of travel time savings Ana Luiza Santos de Sa ETA Predictions for Physical Internet Hubs
1:30 PM 1:30 PM 1:30 PM 1:40 PM	3:30 PM 1:40 PM 1:50 PM	Forum 1 (Center Stage 1) Structural Engineering Chair: A/Prof Xumei Liu Design of high-strength concrete filled steel tubular columns under nonuniform fires Lalita Lama Development of Waste Wood Composites for Load-bearing Engineered Wood Products Isuri Tamura Amarasinghe	Forum 2 (Meeting Place 1) Geotechnical Engineering Chair: Dr Philip Christopher Mapping Microannular Voids Formation on Existing Wellbore Cement for Underground Hydrogen Storage Amirthan Thirukumaran Numerical assessment of ground heat exchangers performance in a pit lake environment Mauricio Carcamo Medel Impact of Sample Preparation on Erosion and Post Erosion Mechanical Behaviour of Gap-Graded Soils Meysam Mousavi	Afternoon Sessions Forum 3 (Meeting Place 2) Environmental Hydrology and Water Resources Chair: Dr Yuhang Zhang When is a knowledge gap filled in environmental monitoring? Xiaoyan Dai Leveraging On-Site River Data and Heteroskedasticity in Bayesian Rating Curves Sai Vikas Kona Changes to rainfall intermittency at the catchment scale in Australia Steven Thomas	Geomatics Chair: Dr Serene Ho Equi-GSPR: Equivariant SE(3) Graph Network Model for Sparse Point Cloud Registration Xueyang kang Open World Object Detection with Vision-Language Model Zizhao Li	Forum 5 (Meeting Place 4) Transport Chair: Prof Russel Thompson Modelling the effects of travel time use on mode choice and the value of travel time savings Ana Luiza Santos de Sa ETA Predictions for Physical Internet Hubs Anshul Vijay Al-Driven Audio Signal Processing Applied in Intelligent Transportation Systems Hossein Parineh
1:30 PM 1:30 PM 1:30 PM 1:40 PM	3:30 PM 1:40 PM 1:50 PM	Forum 1 (Center Stage 1) Structural Engineering Chair: A Prof Xumei Liu Design of high-strength concrete filled steel tubular columns under nonuniform fires Lalita Lama Development of Waste Wood Composites for Load-bearing Engineered Wood Products Isuri Tamura Amarasinghe Numerical Modelling of Liquid Hydrogen Boil-off Merinnage Susiri Vidarshaka Costa Numerical Analysis of Steel-Concrete Composite Shear Wall at Elevated Temperature	Forum 2 (Meeting Place 1) Geotechnical Engineering Chair: Dr Philip Christopher Mapping Microannular Voids Formation on Existing Wellbore Cement for Underground Hydrogen Storage Amirthan Thirukumaran Numerical assessment of ground heat exchangers performance in a pit lake environment Mauricio Carcamo Medel Impact of Sample Preparation on Erosion and Post Erosion Mechanical Behaviour of Gap-Graded Soils	Afternoon Sessions Forum 3 (Meeting Place 2) Environmental Hydrology and Water Resources Chair: Dr Yuhang Zhang When is a knowledge gap filled in environmental monitoring? Xiaoyan Dai Leveraging On-Site River Data and Heteroskedasticity in Bayesian Rating Curves Sai Vikas Kona Changes to rainfall intermittency at the catchment scale in Australia	Geomatics Chair: D' Serene Ho Equi-GSPR: Equivariant SE(3) Graph Network Model for Sparse Point Cloud Registration Xueyang kang Open World Object Detection with Vision-Language Model Zizhao Li Predictive Models and Tools for Real-Time Flood Monitoring Alireza Haji Heldari Global localization for Mixed Reality visualization using wireframe extraction from images	Forum 5 (Meeting Place 4) Transport Chair: Prof Russel Thompson Modelling the effects of travel time use on mode choice and the value of travel time savings Ana Luiza Santos de Sa ETA Predictions for Physical Internet Hubs Anshul Vijay Al-Driven Audio Signal Processing Applied in Intelligent Transportation Systems
1:30 PM 1:30 PM 1:30 PM 1:40 PM 2:00 PM	3:30 PM 1:40 PM 1:50 PM 2:00 PM	Forum 1 (Center Stage 1) Structural Engineering Chair: A/Prof Xumei Liu Design of high-strength concrete filled steel tubular columns under nonuniform fires Lalita Lama Development of Waste Wood Composites for Load-bearing Engineered Wood Products Isuri Tamura Amarasinghe Numerical Modelling of Liquid Hydrogen Boil-off Merinnage Susiri Vidarshaka Costa Numerical Analysis of Steel-Concrete Composite Shear Wall at	Forum 2 (Meeting Place 1) Geotechnical Engineering Chair: Dr Philip Christopher Mapping Microannular Voids Formation on Existing Wellbore Cement for Underground Hydrogen Storage Amirthan Thirukumaran Numerical assessment of ground heat exchangers performance in a pit lake environment Mauricio Carcamo Medel Impact of Sample Preparation on Erosion and Post Erosion Mechanical Behaviour of Gap-Graded Soils Meysam Mousavi Numerical modelling of suction caissons under cyclic loading	Afternoon Sessions Forum 3 (Meeting Place 2) Environmental Hydrology and Water Resources Chair: Dr Yuhang Zhang When is a knowledge gap filled in environmental monitoring? Xiaoyan Dai Leveraging On-Site River Data and Heteroskedasticity in Bayesian Rating Curves Sai Vikas Kona Changes to rainfall intermittency at the catchment scale in Australia Steven Thomas Atmospheric Rivers leading to extreme flooding	Geomatics Chair: Dr Serene Ho Equi-GSPR: Equivariant SE(3) Graph Network Model for Sparse Point Cloud Registration Xueyang kang Open World Object Detection with Vision-Language Model Zizhao Li Predictive Models and Tools for Real-Time Flood Monitoring Alireza Haji Heidari Global localization for Mixed Reality visualization using	Forum 5 (Meeting Place 4) Transport Chair: Prof Russel Thompson Modelling the effects of travel time use on mode choice and the value of travel time savings Ana Luiza Santos de Sa ETA Predictions for Physical Internet Hubs Anshul Vijay Al-Driven Audio Signal Processing Applied in Intelligent Transportation Systems Hossein Parineh Investigation on the effects of road pricing on road safety
1:30 PM 1:30 PM 1:30 PM 1:30 PM	3:30 PM 1:40 PM 1:50 PM 2:00 PM	Forum 1 (Center Stage 1) Structural Engineering Chair: A/Prof Xumei Liu Design of high-strength concrete filled steel tubular columns under nonuniform fires Lalita Lama Development of Waste Wood Composites for Load-bearing Engineered Wood Products Isuri Tamura Amarasinghe Numerical Modelling of Liquid Hydrogen Boil-off Merinnage Susiri Vidarshaka Costa Numerical Analysis of Steel-Concrete Composite Shear Wall at Elevated Temperature Nav Raj Bhatt A study on the durability of bamboo strips using the constant immersion method Nimisha Kattumunda	Forum 2 (Meeting Place 1) Geotechnical Engineering Chair: Dr Philip Christopher Mapping Microannular Voids Formation on Existing Wellbore Cement for Underground Hydrogen Storage Amirthan Thirukumaran Numerical assessment of ground heat exchangers performance in a pit lake environment Mauricio Carcamo Medel Impact of Sample Preparation on Erosion and Post Erosion Mechanical Behaviour of Gap-Graded Soils Meysam Mousavi Numerical modelling of suction caissons under cyclic loading Nazish Ullah Soil-Structure Interaction Framework for Monopiles in Sand under Cyclic Loading Olgu Orakci	Afternoon Sessions Forum 3 (Meeting Place 2) Environmental Hydrology and Water Resources Chair: Dr Yuhang Zhang When is a knowledge gap filled in environmental monitoring? Xiaoyan Dai Leveraging On-Site River Data and Heteroskedasticity in Bayesian Rating Curves Sai Vikas Kona Changes to rainfall intermittency at the catchment scale in Australia Steven Thomas Atmospheric Rivers leading to extreme flooding Sucheta Pradhan Network topology drives population temporalvariability in experimental habitat networks Yiwen Xu	Chair: Dr Serene Ho Equi-GSPR: Equivariant SE(3) Graph Network Model for Sparse Point Cloud Registration	Forum 5 (Meeting Place 4) Transport Chair: Prof Russel Thompson Modelling the effects of travel time use on mode choice and the value of travel time savings Ana Luiza Santos de Sa ETA Predictions for Physical Internet Hubs Anshul Vijay Al-Driven Audio Signal Processing Applied in Intelligent Transportation Systems Hossein Parineh Investigation on the effects of road pricing on road safety Humberto Barrera-Jimenez Electric Vehicle Charging Access: User Perspectives and Implications to Accessibility Isrrah Malabanan
1:30 PM 1:30 PM 1:30 PM 1:40 PM 2:00 PM	3:30 PM 1:40 PM 1:50 PM 2:00 PM	Forum 1 (Center Stage 1) Structural Engineering Chair: AProf Xumei Liu Design of high-strength concrete filled steel tubular columns under nonuniform fires Lalita Lama Development of Waste Wood Composites for Load-bearing Engineered Wood Products Isuri Tamura Amarasinghe Numerical Modelling of Liquid Hydrogen Boil-off Merinnage Susiri Vidarshaka Costa Numerical Analysis of Steel-Concrete Composite Shear Wall at Elevated Temperature Nav Raj Bhatt A study on the durability of bamboo strips using the constant immersion method	Forum 2 (Meeting Place 1) Geotechnical Engineering Chair: Dr Philip Christopher Mapping Microannular Voids Formation on Existing Wellbore Cement for Underground Hydrogen Storage Amirthan Thirukumaran Numerical assessment of ground heat exchangers performance in a pit lake environment Mauricio Carcamo Medel Impact of Sample Preparation on Erosion and Post Erosion Mechanical Behaviour of Gap-Graded Soils Meysam Mousavi Numerical modelling of suction caissons under cyclic loading Nazish Ullah Soil-Structure Interaction Framework for Monopiles in Sand under Cyclic Loading	Afternoon Sessions Forum 3 (Meeting Place 2) Environmental Hydrology and Water Resources Chair: Dr Yuhang Zhang When is a knowledge gap filled in environmental monitoring? Xiaoyan Dai Leveraging On-Site River Data and Heteroskedasticity in Bayesian Rating Curves Sai Vikas Kona Changes to rainfall intermittency at the catchment scale in Australia Steven Thomas Atmospheric Rivers leading to extreme flooding Sucheta Pradhan Network topology drives population temporalvariability in experimental habitat networks	Chair: D' Serene Ho Equi-GSPR: Equivariant SE(3) Graph Network Model for Sparse Point Cloud Registration Xueyang kang Open World Object Detection with Vision-Language Model Zizhao Li Predictive Models and Tools for Real-Time Flood Monitoring Alireza Haji Heidari Global localization for Mixed Reality visualization using wireframe extraction from images Sajjad Einizinab Al-Driven BIM Model Requirements for Automated Building Code Compliance	Forum 5 (Meeting Place 4) Transport Chair: Prof Russel Thompson Modelling the effects of travel time use on mode choice and the value of travel time savings Ana Luiza Santos de Sa ETA Predictions for Physical Internet Hubs Anshul Vijay Al-Driven Audio Signal Processing Applied in Intelligent Transportation Systems Hossein Parineh Investigation on the effects of road pricing on road safety Humberto Barrera-Jimenez Electric Vehicle Charging Access: User Perspectives and Implications to Accessibility
1:30 PM 1:30 PM 1:30 PM 1:40 PM 2:00 PM	3:30 PM 1:40 PM 1:50 PM 2:00 PM 2:10 PM	Forum 1 (Center Stage 1) Structural Engineering Chair: A Prof Xumei Liu Design of high-strength concrete filled steel tubular columns under nonuniform fires Lalita Lama Development of Waste Wood Composites for Load-bearing Engineered Wood Products Isuri Tamura Amarasinghe Numerical Modelling of Liquid Hydrogen Boil-off Merinnage Susiri Vidarshaka Costa Numerical Analysis of Steel-Concrete Composite Shear Wall at Elevated Temperature Nav Raj Bhatt A study on the durability of bamboo strips using the constant immersion method Nimisha Kattumunda Impact of Progressive Expansion of Dataset on CNN Performance in Plastic Waste Sorting Nuwan Dewapurage Seismic performance and earthquake design of composite	Forum 2 (Meeting Place 1) Geotechnical Engineering Chair: Dr Philip Christopher Mapping Microannular Voids Formation on Existing Wellbore Cement for Underground Hydrogen Storage Amirthan Thirukumaran Numerical assessment of ground heat exchangers performance in a pit lake environment Mauricio Carcamo Medel Impact of Sample Preparation on Erosion and Post Erosion Mechanical Behaviour of Gap-Graded Soils Meysam Mousavi Numerical modelling of suction caissons under cyclic loading Nazish Ullah Soil-Structure Interaction Framework for Monopiles in Sand under Cyclic Loading Olgu Orakci Smart Offshore Site Investigation Using Free-Fall Penetrometers Parviz Tafazzoli Moghaddam Assessing Caprock Integrity for Underground Hydrogen Storage	Afternoon Sessions Forum 3 (Meeting Place 2) Environmental Hydrology and Water Resources Chair: Dr Yuhang Zhang When is a knowledge gap filled in environmental monitoring? Xiaoyan Dai Leveraging On-Site River Data and Heteroskedasticity in Bayesian Rating Curves Sai Vikas Kona Changes to rainfall intermittency at the catchment scale in Australia Steven Thomas Atmospheric Rivers leading to extreme flooding Sucheta Pradhan Network topology drives population temporalvariability in experimental habitat networks Yiwen Xu Challenges of using robustness metrics for water resources system management under uncertainty Yuan Cao	Chair: D' Serene Ho Equi-GSPR: Equivariant SE(3) Graph Network Model for Sparse Point Cloud Registration Xueyang kang Open World Object Detection with Vision-Language Model Zizhao Li Predictive Models and Tools for Real-Time Flood Monitoring Alireza Haji Heidari Global localization for Mixed Reality visualization using wireframe extraction from images Sajjad Einizinab Al-Driven BIM Model Requirements for Automated Building Code Compliance SeyedehFatemeh Mirhosseini Low Earth Orbit (LEO)-augmented positioning in heavily GNSS signal-obstructed environments Songfeng Yang	Forum 5 (Meeting Place 4) Transport Chair: Prof Russel Thompson Modelling the effects of travel time use on mode choice and the value of travel time savings Ana Luiza Santos de Sa ETA Predictions for Physical Internet Hubs Anshul Vijay Al-Driven Audio Signal Processing Applied in Intelligent Transportation Systems Hossein Parineh Investigation on the effects of road pricing on road safety Humberto Barrera-Jimenez Electric Vehicle Charging Access: User Perspectives and Implications to Accessibility Isrrah Malabanan Feature-Aware Unsupervised Detection of Important Nodes in Graphs Mohammadreza Ghanbari Al-Powered transit simulator: Integration between microscopic
1:30 PM 1:30 PM 1:30 PM 1:40 PM 2:00 PM	3:30 PM 1:40 PM 1:50 PM 2:00 PM 2:10 PM	Forum 1 (Center Stage 1) Structural Engineering Chair: A/Prof Xumei Liu Design of high-strength concrete filled steel tubular columns under nonuniform fires Lalita Lama Development of Waste Wood Composites for Load-bearing Engineered Wood Products Isuri Tamura Amarasinghe Numerical Modelling of Liquid Hydrogen Boil-off Merinnage Susiri Vidarshaka Costa Numerical Analysis of Steel-Concrete Composite Shear Wall at Elevated Temperature Nav Raj Bhatt A study on the durability of bamboo strips using the constant immersion method Nimisha Kattumunda Impact of Progressive Expansion of Dataset on CNN Performance in Plastic Waste Sorting Nuwan Dewapurage	Forum 2 (Meeting Place 1) Geotechnical Engineering Chair: Dr Philip Christopher Mapping Microannular Voids Formation on Existing Wellbore Cement for Underground Hydrogen Storage Amirthan Thirukumaran Numerical assessment of ground heat exchangers performance in a pit lake environment Mauricio Carcamo Medel Impact of Sample Preparation on Erosion and Post Erosion Mechanical Behaviour of Gap-Graded Soils Meysam Mousavi Numerical modelling of suction caissons under cyclic loading Nazish Ullah Soil-Structure Interaction Framework for Monopiles in Sand under Cyclic Loading Olgu Orakci Smart Offshore Site Investigation Using Free-Fall Penetrometers Parviz Tafazzoli Moghaddam	Afternoon Sessions Forum 3 (Meeting Place 2) Environmental Hydrology and Water Resources Chair: Dr Yuhang Zhang When is a knowledge gap filled in environmental monitoring? Xiaoyan Dai Leveraging On-Site River Data and Heteroskedasticity in Bayesian Rating Curves Sai Vikas Kona Changes to rainfall intermittency at the catchment scale in Australia Steven Thomas Atmospheric Rivers leading to extreme flooding Sucheta Pradhan Network topology drives population temporalvariability in experimental habitat networks Yiwen Xu Challenges of using robustness metrics for water resources system management under uncertainty	Chair: Dr Serene Ho Equi-GSPR: Equivariant SE(3) Graph Network Model for Sparse Point Cloud Registration Xueyang kang Open World Object Detection with Vision-Language Model Zizhao Li Predictive Models and Tools for Real-Time Flood Monitoring Alireza Haji Heidari Global localization for Mixed Reality visualization using wireframe extraction from images Sajjad Einizinab Al-Driven BIM Model Requirements for Automated Building Code Comptiance SeyedehFatemeh Mirhosseini Low Earth Orbit (LEO)-augmented positioning in heavily GNSS signal-obstructed environments	Forum 5 (Meeting Place 4) Transport Chair: Prof Russel Thompson Modelling the effects of travel time use on mode choice and the value of travel time savings Ana Luiza Santos de Sa ETA Predictions for Physical Internet Hubs Anshul Vijay Al-Driven Audio Signal Processing Applied in Intelligent Transportation Systems Hossein Parineh Investigation on the effects of road pricing on road safety Humberto Barrera-Jimenez Electric Vehicle Charging Access: User Perspectives and Implications to Accessibility Isrrah Malabanan Feature-Aware Unsupervised Detection of Important Nodes in Graphs Mohammadreza Ghanbari
1:30 PM 1:30 PM 1:30 PM 1:40 PM 2:50 PM 2:10 PM 2:20 PM	3:30 PM 1:40 PM 1:50 PM 2:00 PM 2:10 PM 2:20 PM 2:30 PM	Forum 1 (Center Stage 1) Structural Engineering Chair: A/Prof Xumei Liu Design of high-strength concrete filled steel tubular columns under nonuniform fires Lalita Lama Development of Waste Wood Composites for Load-bearing Engineered Wood Products Isuri Tamura Amarasinghe Numerical Modelling of Liquid Hydrogen Boil-off Merinnage Susiri Vidarshaka Costa Numerical Analysis of Steel-Concrete Composite Shear Wall at Elevated Temperature Nav Raj Bhatt A study on the durability of bamboo strips using the constant immersion method Nimisha Kattumunda Impact of Progressive Expansion of Dataset on CNN Performance in Plastic Waste Sorting Nuwan Dewapurage Seismic performance and earthquake design of composite modular buildings	Forum 2 (Meeting Place 1) Geotechnical Engineering Chair: Dr Phillip Christopher Mapping Microannular Voids Formation on Existing Wellbore Cement for Underground Hydrogen Storage Amirthan Thirukumaran Numerical assessment of ground heat exchangers performance in a pit lake environment Mauricio Carcamo Medel Impact of Sample Preparation on Erosion and Post Erosion Mechanical Behaviour of Gap-Graded Soils Meysam Mousavi Numerical modelling of suction caissons under cyclic loading Nazish Ullah Soil-Structure Interaction Framework for Monopiles in Sand under Cyclic Loading Olgu Orakci Smart Offshore Site Investigation Using Free-Fall Penetrometers Parviz Tafazzoli Moghaddam Assessing Caprock Integrity for Underground Hydrogen Storage in Depleted Gas Reservoirs	Afternoon Sessions Forum 3 (Meeting Place 2) Environmental Hydrology and Water Resources Chair: Dr Yuhang Zhang When is a knowledge gap filled in environmental monitoring? Xiaoyan Dai Leveraging On-Site River Data and Heteroskedasticity in Bayesian Rating Curves Sai Vilkas Kona Changes to rainfall intermittency at the catchment scale in Australia Steven Thomas Atmospheric Rivers leading to extreme flooding Sucheta Pradhan Network topology drives population temporalvariability in experimental habitat networks Yiwen Xu Challenges of using robustness metrics for water resources system management under uncertainty Yuan Cao Decadal Cycles in Global Rainfall – Initial Results	Geomatics Chair: D' Serene Ho Equi-GSPR: Equivariant SE(3) Graph Network Model for Sparse Point Cloud Registration Xueyang kang Open World Object Detection with Vision-Language Model Zizhao Li Predictive Models and Tools for Real-Time Flood Monitoring Alireza Haji Heidari Global localization for Mixed Reality visualization using wireframe extraction from images Sajjad Einizinab Al-Driven BIM Model Requirements for Automated Building Code Compliance SeyedehFatemeh Mirhosseini Low Earth Orbit (LEO)-augmented positioning in heavily GNSS signal-obstructed environments Songfeng Yang Occupancy Grid Mapping with Uncertain LIDAR Data	Forum 5 (Meeting Place 4) Transport Chair: Prof Russel Thompson Modelling the effects of travel time use on mode choice and the value of travel time use on mode choice and the value of travel time savings Ana Luiza Santos de Sa ETA Predictions for Physical Internet Hubs Anshul Vijay Al-Driven Audio Signal Processing Applied in Intelligent Transportation Systems Hossein Parineh Investigation on the effects of road pricing on road safety Humberto Barrera-Jimenez Electric Vehicle Charging Access: User Perspectives and Implications to Accessibility Isrrah Malabanan Feature-Aware Unsupervised Detection of Important Nodes in Graphs Mohammadreza Ghanbari Al-Powered transit simulator: Integration between microscopic simulation and machine learning
1:30 PM 1:30 PM 1:30 PM 1:40 PM 2:00 PM 2:10 PM	3:30 PM 1:40 PM 1:50 PM 2:00 PM 2:10 PM 2:20 PM	Forum 1 (Center Stage 1) Structural Engineering Chair: A Prof Xumei Liu Design of high-strength concrete filled steel tubular columns under nonuniform fires Lalita Lama Development of Waste Wood Composites for Load-bearing Engineered Wood Products Isuri Tamura Amarasinghe Numerical Modelling of Liquid Hydrogen Boil-off Merinnage Susiri Vidarshaka Costa Numerical Analysis of Steel-Concrete Composite Shear Wall at Elevated Temperature Nav Raj Bhatt A study on the durability of bamboo strips using the constant immersion method Nimisha Kattumunda Impact of Progressive Expansion of Dataset on CNN Performance in Plastic Waste Sorting Nuwan Dewapurage Seismic performance and earthquake design of composite modular buildings Omar Ahmed Mohamed Morsy Sustainable Structural insulated Panel System for a Decarbonised Construction Industry Rannulu Nipun De Zoysa	Forum 2 (Meeting Place 1) Geotechnical Engineering Chair: Dr Philip Christopher Mapping Microannular Voids Formation on Existing Wellbore Cement for Underground Hydrogen Storage Amirthan Thirukumaran Numerical assessment of ground heat exchangers performance in a pit lake environment Mauricio Carcamo Medel Impact of Sample Preparation on Erosion and Post Erosion Mechanical Behaviour of Gap-Graded Soils Meysam Mousavi Numerical modelling of suction caissons under cyclic loading Nazish Ullah Soil-Structure Interaction Framework for Monopiles in Sand under Cyclic Loading Olgu Orakci Smart Offshore Site Investigation Using Free-Fall Penetrometers Parviz Tafazzoli Moghaddam Assessing Caprock Integrity for Underground Hydrogen Storage in Depleted Gas Reservoirs Pramod Dilshan Installation of helical pile in clayey soil Zeliang Li	Afternoon Sessions Forum 3 (Meeting Place 2) Environmental Hydrology and Water Resources Chair: Dr Yuhang Zhang When is a knowledge gap filled in environmental monitoring? Xiaoyan Dai Leveraging On-Site River Data and Heteroskedasticity in Bayesian Rating Curves Sai Vilkas Kona Changes to rainfall intermittency at the catchment scale in Australia Steven Thomas Atmospheric Rivers leading to extreme flooding Sucheta Pradhan Network topology drives population temporalvariability in experimental habitat networks Yiwen Xu Challenges of using robustness metrics for water resources system management under uncertainty Yuan Cao Decadal Cycles in Global Rainfall – Initial Results Tobias Selkirk Improve representation of multi-annual dynamics in rainfall- runoff models Ziqi Zhang	Geomatics Chair: D' Serene Ho Equi-GSPR: Equivariant SE(3) Graph Network Model for Sparse Point Cloud Registration Xueyang kang Open World Object Detection with Vision-Language Model Zizhao Li Predictive Models and Tools for Real-Time Flood Monitoring Alireza Haji Heidari Global localization for Mixed Reality visualization using wireframe extraction from images Sajjad Einizinab Al-Driven BIM Model Requirements for Automated Building Code Compliance SeyedehFatemeh Mirhosseini Low Earth Orbit (LEO)-augmented positioning in heavily GNSS signal-obstructed environments Songfeng Yang Occupancy Grid Mapping with Uncertain LiDAR Data Yuguang Liu Latent-conditioned point cloud diffusion for object augmentation in driving scenes Zhengkang Xlang	Forum 5 (Meeting Place 4) Transport Chair: Prof Russel Thompson Modelling the effects of travel time use on mode choice and the value of travel time savings Ana Luiza Santos de Sa ETA Predictions for Physical Internet Hubs Anshul Vijay Al-Driven Audio Signal Processing Applied in Intelligent Transportation Systems Hossein Parineh Investigation on the effects of road pricing on road safety Humberto Barrera-Jimenez Electric Vehicle Charging Access: User Perspectives and Implications to Accessibility Isrrah Malabanar Feature-Aware Unsupervised Detection of Important Nodes in Graphs Mohammadreza Ghanbari Al-Powered transit simulator: Integration between microscopic simulation and machine learning Mustafa Rezazada General algorithm of assigning raster features to vector maps at any resolution, size or scale
1:30 PM 1:30 PM 1:30 PM 1:40 PM 2:50 PM 2:10 PM 2:20 PM	3:30 PM 1:40 PM 1:50 PM 2:00 PM 2:10 PM 2:20 PM 2:30 PM	Forum 1 (Center Stage 1) Structural Engineering Chair: A Prof Xumei Liu Design of high-strength concrete filled steel tubular columns under nonuniform fires Lalita Lama Development of Waste Wood Composites for Load-bearing Engineered Wood Products Isuri Tamura Amarasinghe Numerical Modelling of Liquid Hydrogen Boil-off Merinnage Susiri Vidarshaka Costa Numerical Analysis of Steel-Concrete Composite Shear Wall at Elevated Temperature Nav Raj Bhatt A study on the durability of bamboo strips using the constant immersion method Nimisha Kattumunda Impact of Progressive Expansion of Dataset on CNN Performance in Plastic Waste Sorting Nuwan Dewapurage Seismic performance and earthquake design of composite modular buildings Omar Ahmed Mohamed Morsy Sustainable Structural insulated Panel System for a Decarbonised Construction Industry Rannulu Nipun De Zoysa Optimisation framework for design-to-delivery of prefabricated timber systems	Forum 2 (Meeting Place 1) Geotechnical Engineering Chair: Dr Philip Christopher Mapping Microannular Voids Formation on Existing Wellbore Cement for Underground Hydrogen Storage Amirthan Thirukumaran Numerical assessment of ground heat exchangers performance in a pit lake environment Mauricio Carcamo Medel Impact of Sample Preparation on Erosion and Post Erosion Mechanical Behaviour of Gap-Graded Soils Meysam Mousavi Numerical modelling of suction caissons under cyclic loading Nazish Ullah Soil-Structure Interaction Framework for Monopiles in Sand under Cyclic Loading Olgu Orakci Smart Offshore Site Investigation Using Free-Fall Penetrometers Parviz Tafazzoli Moghaddam Assessing Caprock Integrity for Underground Hydrogen Storage in Depleted Gas Reservoirs Pramod Dilshan Installation of helical pile in clayey soil Zeliang Li Large Deformation Modelling: a numerical approach in offshore geotechnics	Afternoon Sessions Forum 3 (Meeting Place 2) Environmental Hydrology and Water Resources Chair: Dr Yuhang Zhang When is a knowledge gap filled in environmental monitoring? Xiaoyan Dai Leveraging On-Site River Data and Heteroskedasticity in Bayesian Rating Curves Sai Vilkas Kona Changes to rainfall intermittency at the catchment scale in Australia Steven Thomas Atmospheric Rivers leading to extreme flooding Sucheta Pradhan Network topology drives population temporalvariability in experimental habitat networks Yiwen Xu Challenges of using robustness metrics for water resources system management under uncertainty Yuan Cao Decadal Cycles in Global Rainfall – Initial Results Tobias Selkirk Improve representation of multi-annual dynamics in rainfall- runoff models Ziqi Zhang Estimating Nutrient Inputs to Agricultural Land Use to Predict Surface Water Quality	Chair: D' Serene Ho Equi-GSPR: Equivariant SE(3) Graph Network Model for Sparse Point Cloud Registration Xueyang kang Open World Object Detection with Vision-Language Model Zizhao Li Predictive Models and Tools for Real-Time Flood Monitoring Alireza Haji Heldari Global localization for Mixed Reality visualization using wireframe extraction from images Sajjad Einizinab Al-Driven BIM Model Requirements for Automated Building Code Compliance SeyedehFatemeh Mirhosseini Low Earth Orbit (LEO)-augmented positioning in heavily GNSS signal-obstructed environments Songfeng Yang Occupancy Grid Mapping with Uncertain LiDAR Data Yuguang Liu Latent-conditioned point cloud diffusion for object augmentation in driving scenes Zhengkang Xiang Strategic Allocation of Landmarks to Reduce Uncertainty in Indoor Navigation	Forum 5 (Meeting Place 4) Transport Chair: Prof Russel Thompson Modelling the effects of travel time use on mode choice and the value of travel time savings Ana Luiza Santos de Sa ETA Predictions for Physical Internet Hubs Anshul Vijay Al-Driven Audio Signal Processing Applied in Intelligent Transportation Systems Hossein Parineh Investigation on the effects of road pricing on road safety Humberto Barrera-Jimenez Electric Vehicle Charging Access: User Perspectives and Implications to Accessibility Isrrah Malabanan Feature-Aware Unsupervised Detection of Important Nodes in Graphs Mohammadreza Ghanbari Al-Powered transit simulator: Integration between microscopic simulation and machine learning Mustafa Rezazada General algorithm of assigning raster features to vector maps at any resolution, size or scale Nan Xu Developing a hyperconnected and resilient logistic network design for peri-urban freight transportation
1:30 PM 1:30 PM 1:30 PM 1:40 PM 2:50 PM 2:20 PM 2:30 PM 2:50 PM	3:30 PM 1:40 PM 1:50 PM 2:00 PM 2:10 PM 2:20 PM 2:30 PM 3:00 PM	Forum 1 (Center Stage 1) Structural Engineering Chair: AProf Xumei Liu Design of high-strength concrete filled steel tubular columns under nonuniform fires Lalita Lama Development of Waste Wood Composites for Load-bearing Engineered Wood Products Isuri Tamura Amarasinghe Numerical Modelling of Liquid Hydrogen Boil-off Merinnage Susiri Vidarshaka Costa Numerical Analysis of Steel-Concrete Composite Shear Wall at Elevated Temperature Nav Raj Bhatt A study on the durability of bamboo strips using the constant immersion method Nimisha Kattumunda Impact of Progressive Expansion of Dataset on CNN Performance in Plastic Waste Sorting Nuwan Dewapurage Seismic performance and earthquake design of composite modular buildings Omar Ahmed Mohamed Morsy Sustainable Structural insulated Panel System for a Decarbonised Construction Industry Rannulu Nipun De Zoysa Optimisation framework for design-to-delivery of prefabricated timber systems Sasindu Randil Samarawickrama Characterisation and Double-Sided Pullout Study of Recycled	Forum 2 (Meeting Place 1) Geotechnical Engineering Chair: Dr Philip Christopher Mapping Microannular Voids Formation on Existing Wellbore Cement for Underground Hydrogen Storage Amirthan Thirukumaran Numerical assessment of ground heat exchangers performance in a pit lake environment Mauricio Carcamo Medel Impact of Sample Preparation on Erosion and Post Erosion Mechanical Behaviour of Gap-Graded Soils Meysam Mousavi Numerical modelling of suction caissons under cyclic loading Nazish Ullah Soil-Structure Interaction Framework for Monopiles in Sand under Cyclic Loading Olgu Orakci Smart Offshore Site Investigation Using Free-Fall Penetrometers Parviz Tafazzoli Moghaddam Assessing Caprock Integrity for Underground Hydrogen Storage in Depleted Gas Reservoirs Pramod Dilshan Installation of helical pile in clayey soil Zeliang Li Large Deformation Modelling: a numerical approach in offshore geotechnics Ran Tu The influence of OWT installation process on the monopile	Afternoon Sessions Forum 3 (Meeting Place 2) Environmental Hydrology and Water Resources Chair: Dr Yuhang Zhang When is a knowledge gap filled in environmental monitoring? Xiaoyan Dai Leveraging On-Site River Data and Heteroskedasticity in Bayesian Rating Curves Sai Vilkas Kona Changes to rainfall intermittency at the catchment scale in Australia Steven Thomas Atmospheric Rivers leading to extreme flooding Sucheta Pradhan Network topology drives population temporalvariability in experimental habitat networks Yiwen Xu Challenges of using robustness metrics for water resources system management under uncertainty Yuan Cao Decadal Cycles in Global Rainfall – Initial Results Tobias Selkirk Improve representation of multi-annual dynamics in rainfall- runoff models Ziqi Zhang Estimating Nutrient Inputs to Agricultural Land Use to Predict Surface Water Quality Olaleye John Babatunde Flood Monitoring: A Hydrologically Guided Methodology for	Chair: D' Serene Ho Equi-GSPR: Equivariant SE(3) Graph Network Model for Sparse Point Cloud Registration Xueyang kang Open World Object Detection with Vision-Language Model Zizhao Li Predictive Models and Tools for Real-Time Flood Monitoring Alireza Haji Heidari Global localization for Mixed Reality visualization using wireframe extraction from images Sajjad Einizinab Al-Driven BIM Model Requirements for Automated Building Code Compliance SeyedehFatemeh Mirhosseini Low Earth Orbit (LEO)-augmented positioning in heavily GNSS signal-obstructed environments Songleng Yang Occupancy Grid Mapping with Uncertain LIDAR Data Yuguang Liu Latent-conditioned point cloud diffusion for object augmentation in driving scenes Zhengkang Xiang Strategic Allocation of Landmarks to Reduce Uncertainty in	Forum 5 (Meeting Place 4) Transport Chair: Prof Russel Thompson Modelling the effects of travel time use on mode choice and the value of travel time use on mode choice and the value of travel time savings Ana Luiza Santos de Sa ETA Predictions for Physical Internet Hubs Anshul Vijay Al-Driven Audio Signal Processing Applied in Intelligent Transportation Systems Hossein Parineh Investigation on the effects of road pricing on road safety Humberto Barrera-Jimenez Electric Vehicle Charging Access: User Perspectives and Implications to Accessibility Isrrah Malabanan Feature-Aware Unsupervised Detection of Important Nodes in Graphs Mohammadreza Ghanbari Al-Powered transit simulator: Integration between microscopic simulation and machine learning Mustafa Rezazada General algorithm of assigning raster features to vector maps at any resolution, size or scale Nan Xu Developing a hyperconnected and resilient logistic network
1:30 PM 1:30 PM 1:30 PM 1:40 PM 2:50 PM 2:20 PM 2:30 PM	1:40 PM 1:50 PM 2:00 PM 2:10 PM 2:20 PM 2:30 PM 2:50 PM	Forum 1 (Center Stage 1) Structural Engineering Chair: A Prof Xumei Liu Design of high-strength concrete filled steel tubular columns under nonuniform fires Lalita Lama Development of Waste Wood Composites for Load-bearing Engineered Wood Products Isuri Tamura Amarasinghe Numerical Modelling of Liquid Hydrogen Boil-off Merinnage Susiri Vidarshaka Costa Numerical Analysis of Steel-Concrete Composite Shear Wall at Elevated Temperature Nav Raj Bhatt A study on the durability of bamboo strips using the constant immersion method Nimisha Kattumunda Impact of Progressive Expansion of Dataset on CNN Performance in Plastic Waste Sorting Nuwan Dewapurage Seismic performance and earthquake design of composite modular buildings Omar Ahmed Mohamed Morsy Sustainable Structural Insulated Panel System for a Decarbonised Construction Industry Rannulu Nipun De Zoysa Optimisation framework for design-to-delivery of prefabricated timber systems Sasindu Randil Samarawickrama Characterisation and Double-Sided Pullout Study of Recycled Flowline Steel Fibres Vito Nathaniel Lokito	Forum 2 (Meeting Place 1) Geotechnical Engineering Chair: Dr Philip Christopher Mapping Microannular Voids Formation on Existing Wellbore Cement for Underground Hydrogen Storage Amirthan Thirukumaran Numerical assessment of ground heat exchangers performance in a pit lake environment Mauricio Carcamo Medel Impact of Sample Preparation on Erosion and Post Erosion Mechanical Behaviour of Gap-Graded Soils Meysam Mousavi Numerical modelling of suction caissons under cyclic loading Nazish Ullah Soil-Structure Interaction Framework for Monopiles in Sand under Cyclic Loading Olgu Orakci Smart Offshore Site Investigation Using Free-Fall Penetrometers Parviz Tafazzoli Moghaddam Assessing Caprock Integrity for Underground Hydrogen Storage in Depleted Gas Reservoirs Pramod Dilshan Installation of helical pile in clayey soil Zeliang Li Large Deformation Modelling: a numerical approach in offshore geotechnics Ran Tu	Afternoon Sessions Forum 3 (Meeting Place 2) Environmental Hydrology and Water Resources Chair: Dr Yuhang Zhang When is a knowledge gap filled in environmental monitoring? Xiaoyan Dai Leveraging On-Site River Data and Heteroskedasticity in Bayesian Rating Curves Sai Vikas Kona Changes to rainfall intermittency at the catchment scale in Australia Steven Thomas Atmospheric Rivers leading to extreme flooding Sucheta Pradhan Network topology drives population temporalvariability in experimental habitat networks Yiwen Xu Challenges of using robustness metrics for water resources system management under uncertainty Yuan Cao Decadal Cycles in Global Rainfall - Initial Results Tobias Selkirk Improve representation of multi-annual dynamics in rainfall- runoff models Ziqi Zhang Estimating Nutrient inputs to Agricultural Land Use to Predict Surface Water Quality Olaleye John Babatunde Flood Monitoring: A Hydrologically Guided Methodology for Infilling Missing Pixels in Satellite Images Xinqi Guo	Chair: D' Serene Ho Equi-GSPR: Equivariant SE(3) Graph Network Model for Sparse Point Cloud Registration Xueyang kang Open World Object Detection with Vision-Language Model Zizhao Li Predictive Models and Tools for Real-Time Flood Monitoring Alireza Haji Heldari Global localization for Mixed Reality visualization using wireframe extraction from images Sajjad Einizinab Al-Driven BIM Model Requirements for Automated Building Code Compliance SeyedehFatemeh Mirhosseini Low Earth Orbit (LEO)-augmented positioning in heavily GNSS signal-obstructed environments Songfeng Yang Occupancy Grid Mapping with Uncertain LiDAR Data Yuguang Liu Latent-conditioned point cloud diffusion for object augmentation in driving scenes Zhengkang Xiang Strategic Allocation of Landmarks to Reduce Uncertainty in Indoor Navigation	Forum 5 (Meeting Place 4) Transport Chair: Prof Russel Thompson Modelling the effects of travel time use on mode choice and the value of travel time savings Ana Luiza Santos de Sa ETA Predictions for Physical Internet Hubs Anshul Vijay Al-Driven Audio Signal Processing Applied in Intelligent Transportation Systems Hossein Parineh Investigation on the effects of road pricing on road safety Humberto Barrera-Jimenez Electric Vehicle Charging Access: User Perspectives and Implications to Accessibility Isrrah Malabanan Feature-Aware Unsupervised Detection of Important Nodes in Graphs Mohammadreza Ghanbari Al-Powered transit simulator: Integration between microscopic simulation and machine learning Mustafa Rezazada General algorithm of assigning raster features to vector maps at any resolution, size or scale Nan Xu Developing a hyperconnected and resilient logistic network design for peri-urban freight transportation
1:30 PM 1:30 PM 1:30 PM 1:40 PM 2:50 PM 2:20 PM 2:30 PM 2:50 PM	3:30 PM 1:40 PM 1:50 PM 2:00 PM 2:10 PM 2:20 PM 2:30 PM 3:00 PM	Forum 1 (Center Stage 1) Structural Engineering Chair: A Prof Xumei Liu Design of high-strength concrete filled steel tubular columns under nonuniform fires Lalita Lama Development of Waste Wood Composites for Load-bearing Engineered Wood Products Isuri Tamura Amarasinghe Numerical Modelling of Liquid Hydrogen Boil-off Merinnage Susiri Vidarshaka Costa Numerical Analysis of Steel-Concrete Composite Shear Wall at Elevated Temperature Nav Raj Bhatt A study on the durability of bamboo strips using the constant immersion method Nimisha Kattumunda Impact of Progressive Expansion of Dataset on CNN Performance in Plastic Waste Sorting Nuwan Dewapurage Seismic performance and earthquake design of composite modular buildings Omar Ahmed Mohamed Morsy Sustainable Structural Insulated Panel System for a Decarbonised Construction Industry Rannulu Nipun De Zoysa Optimisation framework for design-to-delivery of prefabricated timber systems Sasindu Randil Samarawickrama Characterisation and Double-Sided Pullout Study of Recycled Flowline Steel Fibres	Forum 2 (Meeting Place 1) Geotechnical Engineering Chair: Dr Philip Christopher Mapping Microannular Voids Formation on Existing Wellibore Cement for Underground Hydrogen Storage Amirthan Thirukumaran Numerical assessment of ground heat exchangers performance in a pit lake environment Mauricio Carcamo Medel Impact of Sample Preparation on Erosion and Post Erosion Mechanical Behaviour of Gap-Graded Soils Meysam Mousavi Numerical modelling of suction caissons under cyclic loading Nazish Ullah Soil-Structure Interaction Framework for Monopiles in Sand under Cyclic Loading Olgu Orakci Smart Offshore Site Investigation Using Free-Fall Penetrometers Parviz Tafazzoli Moghaddam Assessing Caprock Integrity for Underground Hydrogen Storage in Depleted Gas Reservoirs Pramod Dilshan Installation of helical pile in clayey soil Zeliang Li Large Deformation Modelling: a numerical approach in offshore geotechnics Ran Tu The influence of OWT installation process on the monopile foundation behaviour Shen Xie Fluid Inertia Effect on Flow Through Fracture Intersections	Afternoon Sessions Forum 3 (Meeting Place 2) Environmental Hydrology and Water Resources Chair: Dr Yuhang Zhang When is a knowledge gap filled in environmental monitoring? Xiaoyan Dai Leveraging On-Site River Data and Heteroskedasticity in Bayesian Rating Curves Sal Vilkas Kona Changes to rainfall intermittency at the catchment scale in Australia Steven Thomas Atmospheric Rivers leading to extreme flooding Sucheta Pradhan Network topology drives population temporalvariability in experimental habitat networks Yiwen Xu Challenges of using robustness metrics for water resources system management under uncertainty Yuan Cao Decadal Cycles in Global Rainfall – Initial Results Tobias Selkirk Improve representation of multi-annual dynamics in rainfall- runoff models Ziqi Zhang Estimating Nutrient Inputs to Agricultural Land Use to Predict Surface Water Quality Olaleye John Babatunde Flood Monitoring: A Hydrologically Guided Methodology for Infilling Missing Pixels in Satellite Images	Chair: D' Serene Ho Equi-GSPR: Equivariant SE(3) Graph Network Model for Sparse Point Cloud Registration Xueyang kang Open World Object Detection with Vision-Language Model Zizhao Li Predictive Models and Tools for Real-Time Flood Monitoring Alireza Haji Heldari Global localization for Mixed Reality visualization using wireframe extraction from images Sajjad Einizinab Al-Driven BIM Model Requirements for Automated Building Code Compliance SeyedehFatemeh Mirhosseini Low Earth Orbit (LEO)-augmented positioning in heavily GNSS signal-obstructed environments Songfeng Yang Occupancy Grid Mapping with Uncertain LiDAR Data Yuguang Liu Latent-conditioned point cloud diffusion for object augmentation in driving scenes Zhengkang Xiang Strategic Allocation of Landmarks to Reduce Uncertainty in Indoor Navigation	Forum 5 (Meeting Place 4) Transport Chair: Prof Russel Thompson Modelling the effects of travel time use on mode choice and the value of travel time savings Ana Luiza Santos de Sa ETA Predictions for Physical Internet Hubs Anshul Vijay Al-Driven Audio Signal Processing Applied in Intelligent Transportation Systems Hossein Parineh Investigation on the effects of road pricing on road safety Humberto Barrera-Jimenez Electric Vehicle Charging Access: User Perspectives and Implications to Accessibility Isrrah Malabanan Feature-Aware Unsupervised Detection of Important Nodes in Graphs Mohammadreza Ghanbari Al-Powered transit simulator: Integration between microscopic simulation and machine learning Mustafa Rezazada General algorithm of assigning raster features to vector maps at any resolution, size or scale Nan Xu Developing a hyperconnected and resilient logistic network design for peri-urban freight transportation
1:30 PM 1:30 PM 1:30 PM 1:40 PM 2:00 PM 2:10 PM 2:20 PM 2:30 PM 3:00 PM	3:30 PM 1:40 PM 1:50 PM 2:00 PM 2:10 PM 2:30 PM 2:30 PM 3:00 PM 3:10 PM	Forum 1 (Center Stage 1) Structural Engineering Chair: A Prof Xumei Liu Design of high-strength concrete filled steel tubular columns under nonuniform fires Lalita Lama Development of Waste Wood Composites for Load-bearing Engineered Wood Products Isuri Tamura Amarasinghe Numerical Modelling of Liquid Hydrogen Boil-off Merinnage Susiri Vidarshaka Costa Numerical Analysis of Steel-Concrete Composite Shear Wall at Elevated Temperature Nav Raj Bhatt A study on the durability of bamboo strips using the constant immersion method Nimisha Kattumunda Impact of Progressive Expansion of Dataset on CNN Performance in Plastic Waste Sorting Nuwan Dewapurage Seismic performance and earthquake design of composite modular buildings Omar Ahmed Mohamed Morsy Sustainable Structural Insulated Panel System for a Decarbonised Construction Industry Rannulu Nipun De Zoysa Optimisation framework for design-to-delivery of prefabricated timber systems Sasindu Randil Samarawickrama Characterisation and Double-Sided Pullout Study of Recycled Flowline Steel Fibres Vito Nathaniel Lokito Missing Data Imputation for Structural Health Monitoring Using Modified WGAIN-GP Sumit Saha High-temperature Stability of Innovative Geocrete for Thermal	Forum 2 (Meeting Place 1) Geotechnical Engineering Chair: Dr Philip Christopher Mapping Microannular Voids Formation on Existing Wellbore Cement for Underground Hydrogen Storage Amirthan Thirukumaran Numerical assessment of ground heat exchangers performance in a pit lake environment Mauricio Carcamo Medel Impact of Sample Preparation on Erosion and Post Erosion Mechanical Behaviour of Gap-Graded Soils Meysam Mousavi Numerical modelling of suction caissons under cyclic loading Nazish Ullah Soil-Structure Interaction Framework for Monopiles in Sand under Cyclic Loading Olgu Orakci Smart Offshore Site Investigation Using Free-Fall Penetrometers Parviz Tafazzoli Moghaddam Assessing Caprock Integrity for Underground Hydrogen Storage in Depleted Gas Reservoirs Pramod Dilshan Installation of helical pile in clayey soil Zeliang Li Large Deformation Modelling: a numerical approach in offshore geotechnics Ran Tu The influence of OWT installation process on the monopile foundation behaviour Shen Xie Fluid Inertia Effect on Flow Through Fracture Intersections Amila Vimukthi Edirisinghe Influence of Fluid Rheology on Fluid Flow in Natural	Afternoon Sessions Forum 3 (Meeting Place 2) Environmental Hydrology and Water Resources Chair: Dr Yuhang Zhang When is a knowledge gap filled in environmental monitoring? Xiaoyan Dai Leveraging On-Site River Data and Heteroskedasticity in Bayesian Rating Curves Sai Vikas Kona Changes to rainfall intermittency at the catchment scale in Australia Steven Thomas Atmospheric Rivers leading to extreme flooding Sucheta Pradhan Network topology drives population temporalvariability in experimental habitat networks Yiwen Xu Challenges of using robustness metrics for water resources system management under uncertainty Yuan Cao Decadal Cycles in Global Rainfall – Initial Results Tobias Selkirk Improve representation of multi-annual dynamics in rainfall- runoff models Ziqi Zhang Estimating Nutrient Inputs to Agricultural Land Use to Predict Surface Water Quality Olaleye John Babatunde Flood Monitoring: A Hydrologically Guided Methodology for Infilling Missing Pixels in Satellite Images Xinqi Guo Evaluating evapotranspiration equations in conceptual	Chair: D' Serene Ho Equi-GSPR: Equivariant SE(3) Graph Network Model for Sparse Point Cloud Registration Xueyang kang Open World Object Detection with Vision-Language Model Zizhao Li Predictive Models and Tools for Real-Time Flood Monitoring Alireza Haji Heldari Global localization for Mixed Reality visualization using wireframe extraction from images Sajjad Einizinab Al-Driven BIM Model Requirements for Automated Building Code Compliance SeyedehFatemeh Mirhosseini Low Earth Orbit (LEO)-augmented positioning in heavily GNSS signal-obstructed environments Songfeng Yang Occupancy Grid Mapping with Uncertain LiDAR Data Yuguang Liu Latent-conditioned point cloud diffusion for object augmentation in driving scenes Zhengkang Xiang Strategic Allocation of Landmarks to Reduce Uncertainty in Indoor Navigation	Forum 5 (Meeting Place 4) Transport Chair: Prof Russel Thompson Modelling the effects of travel time use on mode choice and the value of travel time savings Ana Luiza Santos de Sa ETA Predictions for Physical Internet Hubs Anshul Vijay Al-Driven Audio Signal Processing Applied in Intelligent Transportation Systems Hossein Parineh Investigation on the effects of road pricing on road safety Humberto Barrera-Jimenez Electric Vehicle Charging Access: User Perspectives and Implications to Accessibility Isrrah Malabanan Feature-Aware Unsupervised Detection of Important Nodes in Graphs Mohammadreza Ghanbari Al-Powered transit simulator: Integration between microscopic simulation and machine learning Mustafa Rezazada General algorithm of assigning raster features to vector maps at any resolution, size or scale Nan Xu Developing a hyperconnected and resilient logistic network design for peri-urban freight transportation
1:30 PM 1:30 PM 1:30 PM 1:40 PM 2:50 PM 2:20 PM 2:30 PM 2:30 PM 3:00 PM	3:30 PM 1:40 PM 1:50 PM 2:00 PM 2:10 PM 2:30 PM 2:30 PM 3:00 PM 3:10 PM	Forum 1 (Center Stage 1) Structural Engineering Chair: A/Prof Xumel Liu Design of high-strength concrete filled steel tubular columns under nonuniform fires Lalita Lama Development of Waste Wood Composites for Load-bearing Engineered Wood Products Isuri Tamura Amarasinghe Numerical Modelling of Liquid Hydrogen Boil-off Merinnage Susiri Vidarshaka Costa Numerical Analysis of Steel-Concrete Composite Shear Wall at Elevated Temperature Nav Raj Bhatt A study on the durability of bamboo strips using the constant immersion method Nimisha Kattumunda Impact of Progressive Expansion of Dataset on CNN Performance in Plastic Waste Sorting Nuwan Dewapurage Seismic performance and earthquake design of composite modular buildings Omar Ahmed Mohamed Morsy Sustainable Structural Insulated Panel System for a Decarbonised Construction Industry Rannulu Nipun De Zoysa Optimisation framework for design-to-delivery of prefabricated timber systems Sasindu Randil Samarawickrama Characterisation and Double-Sided Pullout Study of Recycled Flowline Steel Fibres Vito Nathaniel Lokito Missing Data Imputation for Structural Health Monitoring Using Modified WGAIN-GP Sumit Saha	Forum 2 (Meeting Place 1) Geotechnical Engineering Chair: Dr Philip Christopher Mapping Microannular Voids Formation on Existing Wellibore Cement for Underground Hydrogen Storage Amirthan Thirukumaran Numerical assessment of ground heat exchangers performance in a pit lake environment Mauricio Carcamo Medel Impact of Sample Preparation on Erosion and Post Erosion Mechanical Behaviour of Gap-Graded Soils Meysam Mousavi Numerical modelling of suction caissons under cyclic loading Nazish Ullah Soil-Structure Interaction Framework for Monopiles in Sand under Cyclic Loading Olgu Orakci Smart Offshore Site Investigation Using Free-Fall Penetrometers Parviz Tafazzoli Moghaddam Assessing Caprock Integrity for Underground Hydrogen Storage in Depleted Gas Reservoirs Pramod Dilshan Installation of helical pile in clayey soil Zeliang Li Large Deformation Modelling: a numerical approach in offshore geotechnics Ran Tu The influence of OWT installation process on the monopile foundation behaviour Shen Xie Fluid Inertia Effect on Flow Through Fracture Intersections Amila Vimukthi Edirisinghe	Afternoon Sessions Forum 3 (Meeting Place 2) Environmental Hydrology and Water Resources Chair: Dr Yuhang Zhang When is a knowledge gap filled in environmental monitoring? Xiaoyan Dai Leveraging On-Site River Data and Heteroskedasticity in Bayesian Rating Curves Sai Vikas Kona Changes to rainfall intermittency at the catchment scale in Australia Steven Thomas Atmospheric Rivers leading to extreme flooding Sucheta Pradhan Network topology drives population temporalvariability in experimental habitat networks Yiwen Xu Challenges of using robustness metrics for water resources system management under uncertainty Yuan Cao Decadal Cycles in Global Rainfall - Initial Results Tobias Selkirk Improve representation of multi-annual dynamics in rainfall- runoff models Ziqi Zhang Estimating Nutrient inputs to Agricultural Land Use to Predict Surface Water Quality Olaleye John Babatunde Flood Monitoring: A Hydrologically Guided Methodology for Infilling Missing Pixels in Satellite Images Xinqi Guo Evaluating evapotranspiration equations in conceptual hydrological models: insights from flux tower data	Chair: D' Serene Ho Equi-GSPR: Equivariant SE(3) Graph Network Model for Sparse Point Cloud Registration Xueyang kang Open World Object Detection with Vision-Language Model Zizhao Li Predictive Models and Tools for Real-Time Flood Monitoring Alireza Haji Heldari Global localization for Mixed Reality visualization using wireframe extraction from images Sajjad Einizinab Al-Driven BIM Model Requirements for Automated Building Code Compliance SeyedehFatemeh Mirhosseini Low Earth Orbit (LEO)-augmented positioning in heavily GNSS signal-obstructed environments Songfeng Yang Occupancy Grid Mapping with Uncertain LiDAR Data Yuguang Liu Latent-conditioned point cloud diffusion for object augmentation in driving scenes Zhengkang Xiang Strategic Allocation of Landmarks to Reduce Uncertainty in Indoor Navigation	Forum 5 (Meeting Place 4) Transport Chair: Prof Russel Thompson Modelling the effects of travel time use on mode choice and the value of travel time savings Ana Luiza Santos de Sa ETA Predictions for Physical Internet Hubs Anshul Vijay Al-Driven Audio Signal Processing Applied in Intelligent Transportation Systems Hossein Parineh Investigation on the effects of road pricing on road safety Humberto Barrera-Jimenez Electric Vehicle Charging Access: User Perspectives and Implications to Accessibility Isrrah Malabanan Feature-Aware Unsupervised Detection of Important Nodes in Graphs Mohammadreza Ghanbari Al-Powered transit simulator: Integration between microscopic simulation and machine learning Mustafa Rezazada General algorithm of assigning raster features to vector maps at any resolution, size or scale Nan Xu Developing a hyperconnected and resilient logistic network design for peri-urban freight transportation
1:30 PM 1:30 PM 1:30 PM 1:40 PM 2:00 PM 2:10 PM 2:20 PM 2:30 PM 3:10 PM 3:10 PM	3:30 PM 1:40 PM 1:50 PM 2:00 PM 2:10 PM 2:30 PM 2:30 PM 3:00 PM 3:10 PM 3:20 PM	Forum 1 (Center Stage 1) Structural Engineering Chair: A/Prof Xumel Liu Design of high-strength concrete filled steel tubular columns under nonuniform fires Lalita Lama Development of Waste Wood Composites for Load-bearing Engineered Wood Products Isuri Tamura Amarasinghe Numerical Modelling of Liquid Hydrogen Boil-off Merinnage Susiri Vidarshaka Costa Numerical Analysis of Steel-Concrete Composite Shear Wall at Elevated Temperature Nav Raj Bhatt A study on the durability of bamboo strips using the constant immersion method Nimisha Kattumunda Impact of Progressive Expansion of Dataset on CNN Performance in Plastic Waste Sorting Nuwan Dewapurage Seismic performance and earthquake design of composite modular buildings Omar Ahmed Mohamed Morsy Sustainable Structural Insulated Panel System for a Decarbonised Construction Industry Rannulu Nipun De Zoysa Optimisation framework for design-to-delivery of prefabricated timber systems Sasindu Randil Samarawickrama Characterisation and Double-Sided Pullout Study of Recycled Flowline Steel Fibres Vito Nathaniel Lokito Missing Data Imputation for Structural Health Monitoring Using Modified WGAIN-GP Sumit Saha High-temperature Stability of Innovative Geocrete for Thermal Energy Storage (TES)	Forum 2 (Meeting Place 1) Geotechnical Engineering Chair: Dr Philip Christopher Mapping Microannular Voids Formation on Existing Wellibore Cement for Underground Hydrogen Storage Amirthan Thirukumaran Numerical assessment of ground heat exchangers performance in a pit lake environment Mauricio Carcamo Medel Impact of Sample Preparation on Erosion and Post Erosion Mechanical Behaviour of Gap-Graded Soils Meysam Mousavi Numerical modelling of suction caissons under cyclic loading Nazish Ullah Soil-Structure Interaction Framework for Monopiles in Sand under Cyclic Loading Olgu Orakci Smart Offshore Site Investigation Using Free-Fall Penetrometers Parviz Tafazzoli Moghaddam Assessing Caprock Integrity for Underground Hydrogen Storage in Depleted Gas Reservoirs Pramod Dilshan Installation of helical pile in clayey soil Zeliang Li Large Deformation Modelling: a numerical approach in offshore geotechnics Ran Tu The influence of OWT installation process on the monopile foundation behaviour Shen Xie Fluid Inertia Effect on Flow Through Fracture Intersections Amila Vimukthi Edirisinghe Influence of Fluid Rheology on Fluid Flow in Natural Fracture Network	Afternoon Sessions Forum 3 (Meeting Place 2) Environmental Hydrology and Water Resources Chair: Dr Yuhang Zhang When is a knowledge gap filled in environmental monitoring? Xiaoyan Dai Leveraging On-Site River Data and Heteroskedasticity in Bayesian Rating Curves Sai Vikas Kona Changes to rainfall intermittency at the catchment scale in Australia Steven Thomas Atmospheric Rivers leading to extreme flooding Sucheta Pradhan Network topology drives population temporalvariability in experimental habitat networks Yiwen Xu Challenges of using robustness metrics for water resources system management under uncertainty Yuan Cao Decadal Cycles in Global Rainfall - Initial Results Tobias Selkirk Improve representation of multi-annual dynamics in rainfall- runoff models Ziqi Zhang Estimating Nutrient Inputs to Agricultural Land Use to Predict Surface Water Quality Olaleye John Babatunde Flood Monitoring: A Hydrologically Guided Methodology for Infilling Missing Pixels in Satellite Images Xinqi Guo Evaluating evapotranspiration equations in conceptual hydrological models: insights from flux tower data Gabrielle Burns	Chair: D' Serene Ho Equi-GSPR: Equivariant SE(3) Graph Network Model for Sparse Point Cloud Registration Xueyang kang Open World Object Detection with Vision-Language Model Zizhao Li Predictive Models and Tools for Real-Time Flood Monitoring Alireza Haji Heldari Global localization for Mixed Reality visualization using wireframe extraction from images Sajjad Einizinab Al-Driven BIM Model Requirements for Automated Building Code Compliance SeyedehFatemeh Mirhosseini Low Earth Orbit (LEO)-augmented positioning in heavily GNSS signal-obstructed environments Songfeng Yang Occupancy Grid Mapping with Uncertain LiDAR Data Yuguang Liu Latent-conditioned point cloud diffusion for object augmentation in driving scenes Zhengkang Xiang Strategic Allocation of Landmarks to Reduce Uncertainty in Indoor Navigation	Forum 5 (Meeting Place 4) Transport Chair: Prof Russel Thompson Modelling the effects of travel time use on mode choice and the value of travel time savings Ana Luiza Santos de Sa ETA Predictions for Physical Internet Hubs Anshul Vijay Al-Driven Audio Signal Processing Applied in Intelligent Transportation Systems Hossein Parineh Investigation on the effects of road pricing on road safety Humberto Barrera-Jimenez Electric Vehicle Charging Access: User Perspectives and Implications to Accessibility Isrrah Malabanan Feature-Aware Unsupervised Detection of Important Nodes in Graphs Mohammadreza Ghanbari Al-Powered transit simulator: Integration between microscopic simulation and machine learning Mustafa Rezazada General algorithm of assigning raster features to vector maps at any resolution, size or scale Nan Xu Developing a hyperconnected and resilient logistic network design for peri-urban freight transportation
1:30 PM 1:30 PM 1:30 PM 1:40 PM 2:50 PM 2:20 PM 2:30 PM 2:30 PM 3:30 PM 3:30 PM 3:30 PM	3:30 PM 1:40 PM 1:50 PM 2:00 PM 2:10 PM 2:20 PM 2:30 PM 3:30 PM 3:10 PM 3:20 PM 3:30 PM	Forum 1 (Center Stage 1) Structural Engineering Chair: A/Prof Xumel Liu Design of high-strength concrete filled steel tubular columns under nonuniform fires Lalita Lama Development of Waste Wood Composites for Load-bearing Engineered Wood Products Isuri Tamura Amarasinghe Numerical Modelling of Liquid Hydrogen Boil-off Merinnage Susiri Vidarshaka Costa Numerical Analysis of Steel-Concrete Composite Shear Wall at Elevated Temperature Nav Raj Bhatt A study on the durability of bamboo strips using the constant immersion method Nimisha Kattumunda Impact of Progressive Expansion of Dataset on CNN Performance in Plastic Waste Sorting Nuwan Dewapurage Seismic performance and earthquake design of composite modular buildings Omar Ahmed Mohamed Morsy Sustainable Structural Insulated Panel System for a Decarbonised Construction Industry Rannulu Nipun De Zoysa Optimisation framework for design-to-delivery of prefabricated timber systems Sasindu Randil Samarawickrama Characterisation and Double-Sided Pullout Study of Recycled Flowline Steel Fibres Vito Nathaniel Lokito Missing Data Imputation for Structural Health Monitoring Using Modified WGAIN-GP Sumit Saha High-temperature Stability of Innovative Geocrete for Thermal Energy Storage (TES)	Forum 2 (Meeting Place 1) Geotechnical Engineering Chair: Dr Philip Christopher Mapping Microannular Voids Formation on Existing Wellbore Cement for Underground Hydrogen Storage Amirthan Thirukumaran Numerical assessment of ground heat exchangers performance in a pit lake environment Mauricio Carcamo Medel Impact of Sample Preparation on Erosion and Post Erosion Mechanical Behaviour of Gap-Graded Soils Meysam Mousavi Numerical modelling of suction caissons under cyclic loading Nazish Ullah Soil-Structure Interaction Framework for Monopiles in Sand under Cyclic Loading Olgu Orakci Smart Offshore Site Investigation Using Free-Fall Penetrometers Parviz Tafazzoli Moghaddam Assessing Caprock Integrity for Underground Hydrogen Storage in Depleted Gas Reservoirs Pramod Dilshan Installation of helical pile in clayey soil Zeliang Li Large Deformation Modelling: a numerical approach in offshore geotechnics Ran Tu The influence of OWT installation process on the monopile foundation behaviour Shen Xie Fluid Inertia Effect on Flow Through Fracture Intersections Amila Vimukthi Edirisinghe Influence of Fluid Rheology on Fluid Flow in Natural Fracture Network Mai Cuong Bui	Afternoon Sessions Forum 3 (Meeting Place 2) Environmental Hydrology and Water Resources Chair: Dr Yuhang Zhang When is a knowledge gap filled in environmental monitoring? Xiaoyan Dai Leveraging On-Site River Data and Heteroskedasticity in Bayesian Rating Curves Sai Vikas Kona Changes to rainfall intermittency at the catchment scale in Australia Steven Thomas Atmospheric Rivers leading to extreme flooding Sucheta Pradhan Network topology drives population temporalvariability in experimental habitat networks Yiwen Xu Challenges of using robustness metrics for water resources system management under uncertainty Yuan Cao Decadal Cycles in Global Rainfall – Initial Results Tobias Selkirk Improve representation of multi-annual dynamics in rainfall- runoff models Ziqi Zhang Estimating Nutrient Inputs to Agricultural Land Use to Predict Surface Water Quality Olaleye John Babatunde Flood Monitoring: A Hydrologically Guided Methodology for Infilling Missing Pixels in Satellite Images Xinqi Guo Evaluating evapotranspiration equations in conceptual hydrological models: insights from flux tower data Gabrielle Burns	Chair: D' Serene Ho Equi-GSPR: Equivariant SE(3) Graph Network Model for Sparse Point Cloud Registration Xueyang kang Open World Object Detection with Vision-Language Model Zizhao Li Predictive Models and Tools for Real-Time Flood Monitoring Alireza Haji Heldari Global localization for Mixed Reality visualization using wireframe extraction from images Saljad Einizinab Al-Driven BIM Model Requirements for Automated Building Code Compliance Seyedeh Fatemeh Mirhosseini Low Earth Orbit (LEO)-augmented positioning in heavily GNSS signal-obstructed environments Songleng Yang Occupancy Grid Mapping with Uncertain LiDAR Data Yuguang Liu Latent-conditioned point cloud diffusion for object augmentation in driving scenes Zhengkang Xiang Strategic Allocation of Landmarks to Reduce Uncertainty in Indoor Navigation Reza Arabsheibani	Forum 5 (Meeting Place 4) Transport Chair: Prof Russel Thompson Modelling the effects of travel time use on mode choice and the value of travel time savings Ana Luiza Santos de Sa ETA Predictions for Physical Internet Hubs Anshul Vijay Al-Driven Audio Signal Processing Applied in Intelligent Transportation Systems Hossein Parineh Investigation on the effects of road pricing on road safety Humberto Barrera-Jimenez Electric Vehicle Charging Access: User Perspectives and Implications to Accessibility Isrrah Malabanan Feature-Aware Unsupervised Detection of Important Nodes in Graphs Mohammadreza Ghanbari Al-Powered transit simulator: Integration between microscopic simulation and machine learning Mustafa Rezazada General algorithm of assigning raster features to vector maps at any resolution, size or scale Nan Xu Developing a hyperconnected and resilient logistic network design for peri-urban freight transportation
1:30 PM 1:30 PM 1:30 PM 1:40 PM 2:00 PM 2:10 PM 2:20 PM 2:30 PM 3:00 PM 3:00 PM 3:10 PM	3:30 PM 1:40 PM 1:50 PM 2:00 PM 2:10 PM 2:20 PM 2:30 PM 3:30 PM 3:10 PM 3:20 PM	Forum 1 (Center Stage 1) Structural Engineering Chair: A Prof Xumei Liu Design of high-strength concrete filled steel tubular columns under nonuniform fires Lalita Lama Development of Waste Wood Composites for Load-bearing Engineered Wood Products Isuri Tamura Amarasinghe Numerical Modelling of Liquid Hydrogen Boil-off Merinnage Susiri Vidarshaka Costa Numerical Analysis of Steel-Concrete Composite Shear Wall at Elevated Temperature Nav Raj Bhatt A study on the durability of bamboo strips using the constant immersion method Nimisha Kattumunda Impact of Progressive Expansion of Dataset on CNN Performance in Plastic Waste Sorting Nuwan Dewapurage Seismic performance and earthquake design of composite modular buildings Omar Ahmed Mohamed Morsy Sustainable Structural Insulated Panel System for a Decarbonised Construction Industry Rannulu Nipun De Zoysa Optimisation framework for design-to-delivery of prefabricated timber systems Sasindu Randil Samarawickrama Characterisation and Double-Sided Pullout Study of Recycled Flowline Steel Fibres Vito Nathaniel Lokito Missing Data Imputation for Structural Health Monitoring Using Modified WGAIN-GP Sumit Saha High-temperature Stability of Innovative Geocrete for Thermal Energy Storage (TES) Tran Phuc Nghia	Forum 2 (Meeting Place 1) Geotechnical Engineering Chair: Dr Philip Christopher Mapping Microannular Voids Formation on Existing Wellbore Cement for Underground Hydrogen Storage Amirthan Thirukumaran Numerical assessment of ground heat exchangers performance in a pit lake environment Mauricio Carcamo Medel Impact of Sample Preparation on Erosion and Post Erosion Mechanical Behaviour of Gap-Graded Soils Meysam Mousavi Numerical modelling of suction caissons under cyclic loading Nazish Ullah Soil-Structure Interaction Framework for Monopiles in Sand under Cyclic Loading Olgu Orakci Smart Offshore Site Investigation Using Free-Fall Penetrometers Parviz Tafazzoli Moghaddam Assessing Caprock Integrily for Underground Hydrogen Storage in Depleted Gas Reservoirs Pramod Dilshan Installation of helical pile in clayey soil Zeliang Li Large Deformation Modelling: a numerical approach in offshore geotechnics Ran Tu The influence of OWT installation process on the monopile foundation behaviour Shen Xie Fluid Inertia Effect on Flow Through Fracture Intersections Amila Vimukthi Edirisinghe Influence of Fluid Rheology on Fluid Flow in Natural Fracture Network Mai Cuong Bui Topic: Bridging Panelists: Fowler Dr Serryn Eag	Afternoon Sessions Forum 3 (Meeting Place 2) Environmental Hydrology and Water Resources Chair: Dr Yuhang Zhang When is a knowledge gap filled in environmental monitoring? Xiaoyan Dai Leveraging On-Site River Data and Heteroskedasticity in Bayesian Rating Curves Sai Vilkas Kona Changes to rainfall intermittency at the catchment scale in Australia Steven Thomas Atmospheric Rivers leading to extreme flooding Sucheta Pradhan Network topology drives population temporalvariability in experimental habitat networks Yiwen Xu Challenges of using robustness metrics for water resources system management under uncertainty Yuan Cao Decadal Cycles in Global Rainfall – Initial Results Tobias Selkirk Improve representation of multi-annual dynamics in rainfall- runoff models Ziqi Zhang Estimating Nutrient inputs to Agricultural Land Use to Predict Surface Water Quality Olaleye John Babatunde Flood Monitoring: A Hydrologically Guided Methodology for Infilling Missing Pixels in Satellite Images Xinqi Guo Evaluating evapotranspiration equations in conceptual hydrological models: insights from flux tower data Gabrielle Burns Afternoon tea Panel Discussion (Center Stage 1) the Gap by Transforming Research into Industry-Ready Sustain	Chair: D' Serene Ho Equi-GSPR: Equivariant SE(3) Graph Network Model for Sparse Point Cloud Registration Xueyang kang Open World Object Detection with Vision-Language Model Zizhao Li Predictive Models and Tools for Real-Time Flood Monitoring Alireza Haji Heldari Global localization for Mixed Reality visualization using wireframe extraction from images Sajjad Einizinab Al-Driven BIM Model Requirements for Automated Building Code Compliance SeyedehFatemeh Mirhosseini Low Earth Orbit (LEO)-augmented positioning in heavily GNSS signal-obstructed environments Songfeng Yang Occupancy Grid Mapping with Uncertain LiDAR Data Yuguang Liu Latent-conditioned point cloud diffusion for object augmentation in driving scenes Zhengkang Xiang Strategic Allocation of Landmarks to Reduce Uncertainty in Indoor Navigation Reza Arabsheibani Dr Patricia Sauri Lavieri	Forum 5 (Meeting Place 4) Transport Chair: Prof Russel Thompson Modelling the effects of travel time use on mode choice and the value of travel time use on mode choice and the value of travel time savings Ana Luiza Santos de Sa ETA Predictions for Physical Internet Hubs Anshul Vijay Al-Driven Audio Signal Processing Applied in Intelligent Transportation Systems Hossein Parineh Investigation on the effects of road pricing on road safety Humberto Barrera-Jimenez Electric Vehicle Charging Access: User Perspectives and Implications to Accessibility Isrrah Malabanan Feature-Aware Unsupervised Detection of Important Nodes in Graphs Mohammadreza Ghanbari Al-Powered transit simulator: Integration between microscopic simulation and machine learning Mustafa Rezazada General algorithm of assigning raster features to vector maps at any resolution, size or scale Nan Xu Developing a hyperconnected and resilient logistic network design for peri-urban freight transportation Simon Anthony Lorenzo
1:30 PM 1:30 PM 1:30 PM 1:40 PM 2:50 PM 2:20 PM 2:30 PM 2:30 PM 3:30 PM 3:30 PM 3:30 PM	3:30 PM 1:40 PM 1:50 PM 2:00 PM 2:10 PM 2:20 PM 2:30 PM 3:30 PM 3:10 PM 3:20 PM 3:30 PM	Forum 1 (Center Stage 1) Structural Engineering Chair: A Prof Xumei Liu Design of high-strength concrete filled steel tubular columns under nonuniform fires Lalita Lama Development of Waste Wood Composites for Load-bearing Engineered Wood Products Isuri Tamura Amarasinghe Numerical Modelling of Liquid Hydrogen Boil-off Merinnage Susiri Vidarshaka Costa Numerical Analysis of Steel-Concrete Composite Shear Wall at Elevated Temperature Nav Raj Bhatt A study on the durability of bamboo strips using the constant immersion method Nimisha Kattumunda Impact of Progressive Expansion of Dataset on CNN Performance in Plastic Waste Sorting Nuwan Dewapurage Seismic performance and earthquake design of composite modular buildings Omar Ahmed Mohamed Morsy Sustainable Structural Insulated Panel System for a Decarbonised Construction Industry Rannulu Nipun De Zoysa Optimisation framework for design-to-delivery of prefabricated timber systems Sasindu Randil Samarawickrama Characterisation and Double-Sided Pullout Study of Recycled Flowline Steel Fibres Vito Nathaniel Lokito Missing Data Imputation for Structural Health Monitoring Using Modified WGAIN-GP Sumit Saha High-temperature Stability of Innovative Geocrete for Thermal Energy Storage (TES) Tran Phuc Nghia	Forum 2 (Meeting Place 1) Geotechnical Engineering Chair: Dr Philip Christopher Mapping Microannular Voids Formation on Existing Wellbore Cement for Underground Hydrogen Storage Amirthan Thirukumaran Numerical assessment of ground heat exchangers performance in a pit lake environment Mauricio Carcamo Medel Impact of Sample Preparation on Erosion and Post Erosion Mechanical Behaviour of Gap-Graded Soils Meysam Mousavi Numerical modelling of suction caissons under cyclic loading Nazish Ullah Soil-Structure Interaction Framework for Monopiles in Sand under Cyclic Loading Olgu Orakci Smart Offshore Site Investigation Using Free-Fall Penetrometers Parviz Tafazzoli Moghaddam Assessing Caprock Integrily for Underground Hydrogen Storage in Depleted Gas Reservoirs Pramod Dilshan Installation of helical pile in clayey soil Zeliang Li Large Deformation Modelling: a numerical approach in offshore geotechnics Ran Tu The influence of OWT installation process on the monopile foundation behaviour Shen Xie Fluid Inertia Effect on Flow Through Fracture Intersections Amila Vimukthi Edirisinghe Influence of Fluid Rheology on Fluid Flow in Natural Fracture Network Mai Cuong Bui Topic: Bridging Panelists: Fowler Dr Serryn Eag	Afternoon Sessions Forum 3 (Meeting Place 2) Environmental Hydrology and Water Resources Chair: Dr Yuhang Zhang When is a knowledge gap filled in environmental monitoring? Xiaoyan Dai Leveraging On-Site River Data and Heteroskedasticity in Bayesian Rating Curves Sai Vilkas Kona Changes to rainfall intermittency at the catchment scale in Australia Steven Thomas Atmospheric Rivers leading to extreme flooding Sucheta Pradhan Network topology drives population temporalvariability in experimental habitat networks Yiwen Xu Challenges of using robustness metrics for water resources system management under uncertainty Yuan Cao Decadal Cycles in Global Rainfall – Initial Results Tobias Selkirk Improve representation of multi-annual dynamics in rainfall- runoff models Ziqi Zhang Estimating Nutrient Inputs to Agricultural Land Use to Predict Surface Water Quality Olaleye John Babatunde Flood Monitoring: A Hydrologically Guided Methodology for Infilling Missing Pixels in Satellite Images Xinqi Guo Evaluating evapotranspiration equations in conceptual hydrological models: insights from flux tower data Gabrielle Burns Afternoon tea	Chair: D' Serene Ho Equi-GSPR: Equivariant SE(3) Graph Network Model for Sparse Point Cloud Registration Xueyang kang Open World Object Detection with Vision-Language Model Zizhao Li Predictive Models and Tools for Real-Time Flood Monitoring Alireza Haji Heldari Global localization for Mixed Reality visualization using wireframe extraction from images Sajjad Einizinab Al-Driven BIM Model Requirements for Automated Building Code Compliance SeyedehFatemeh Mirhosseini Low Earth Orbit (LEO)-augmented positioning in heavily GNSS signal-obstructed environments Songfeng Yang Occupancy Grid Mapping with Uncertain LiDAR Data Yuguang Liu Latent-conditioned point cloud diffusion for object augmentation in driving scenes Zhengkang Xiang Strategic Allocation of Landmarks to Reduce Uncertainty in Indoor Navigation Reza Arabsheibani Dr Patricia Sauri Lavieri	Forum 5 (Meeting Place 4) Transport Chair: Prof Russel Thompson Modelling the effects of travel time use on mode choice and the value of travel time savings Ana Luiza Santos de Sa ETA Predictions for Physical Internet Hubs Anshul Vijay Al-Driven Audio Signal Processing Applied in Intelligent Transportation Systems Hossein Parineh Investigation on the effects of road pricing on road safety Humberto Barrera-Jimenez Electric Vehicle Charging Access: User Perspectives and Implications to Accessibility Isrrah Malabanan Feature-Aware Unsupervised Detection of Important Nodes in Graphs Mohammadreza Ghanbari Al-Powered transit simulator: Integration between microscopic simulation and machine learning Mustafa Rezazada General algorithm of assigning raster features to vector maps at any resolution, size or scale Nan Xu Developing a hyperconnected and resilient logistic network design for peri-urban freight transportation Simon Anthony Lorenzo
1:30 PM 1:30 PM 1:30 PM 1:40 PM 2:50 PM 2:10 PM 2:20 PM 2:30 PM 3:30 PM 3:30 PM 3:30 PM 4:00 PM	3:30 PM 1:40 PM 1:50 PM 2:00 PM 2:10 PM 2:30 PM 2:30 PM 3:00 PM 3:10 PM 3:20 PM 3:20 PM 3:50 PM	Forum 1 (Center Stage 1) Structural Engineering Chair: A Prof Xumei Liu Design of high-strength concrete filled steel tubular columns under nonuniform fires Lalita Lama Development of Waste Wood Composites for Load-bearing Engineered Wood Products Isuri Tamura Amarasinghe Numerical Modelling of Liquid Hydrogen Boil-off Merinnage Susiri Vidarshaka Costa Numerical Analysis of Steel-Concrete Composite Shear Wall at Elevated Temperature Nav Raj Bhatt A study on the durability of bamboo strips using the constant immersion method Nimisha Kattumunda Impact of Progressive Expansion of Dataset on CNN Performance in Plastic Waste Sorting Nuwan Dewapurage Seismic performance and earthquake design of composite modular buildings Omar Ahmed Mohamed Morsy Sustainable Structural Insulated Panel System for a Decarbonised Construction Industry Rannulu Nipun De Zoysa Optimisation framework for design-to-delivery of prefabricated timber systems Sasindu Randil Samarawickrama Characterisation and Double-Sided Pullout Study of Recycled Flowline Steel Fibres Vito Nathaniel Lokito Missing Data Imputation for Structural Health Monitoring Using Modified WGAIN-GP Sumit Saha High-temperature Stability of Innovative Geocrete for Thermal Energy Storage (TES) Tran Phuc Nghia	Forum 2 (Meeting Place 1) Geotechnical Engineering Chair: Dr Philip Christopher Mapping Microannular Voids Formation on Existing Wellbore Cement for Underground Hydrogen Storage Amirthan Thirukumaran Numerical assessment of ground heat exchangers performance in a pit lake environment Mauricio Carcamo Medel Impact of Sample Preparation on Erosion and Post Erosion Mechanical Behaviour of Gap-Graded Soils Meysam Mousavi Numerical modelling of suction caissons under cyclic loading Nazish Ullah Soil-Structure Interaction Framework for Monopiles in Sand under Cyclic Loading Olgu Orakci Smart Offshore Site Investigation Using Free-Fall Penetrometers Parviz Tafazzoli Moghaddam Assessing Caprock Integrily for Underground Hydrogen Storage in Depleted Gas Reservoirs Pramod Dilshan Installation of helical pile in clayey soil Zeliang Li Large Deformation Modelling: a numerical approach in offshore geotechnics Ran Tu The influence of OWT installation process on the monopile foundation behaviour Shen Xie Fluid Inertia Effect on Flow Through Fracture Intersections Amila Vimukthi Edirisinghe Influence of Fluid Rheology on Fluid Flow in Natural Fracture Network Mai Cuong Bui Topic: Bridging Panelists: Fowler Dr Serryn Eag	Afternoon Sessions Forum 3 (Meeting Place 2) Environmental Hydrology and Water Resources Chair: Dr Yuhang Zhang When is a knowledge gap filled in environmental monitoring? Xiaoyan Dai Leveraging On-Site River Data and Heteroskedasticity in Bayesian Rating Curves Sai Vilkas Kona Changes to rainfall intermittency at the catchment scale in Australia Steven Thomas Atmospheric Rivers leading to extreme flooding Sucheta Pradhan Network topology drives population temporalvariability in experimental habitat networks Yiwen Xu Challenges of using robustness metrics for water resources system management under uncertainty Yuan Cao Decadal Cycles in Global Rainfall – Initial Results Tobias Selkirk Improve representation of multi-annual dynamics in rainfall- runoff models Ziqi Zhang Estimating Nutrient Inputs to Agricultural Land Use to Predict Surface Water Quality Olaleye John Babatunde Flood Monitoring: A Hydrologically Guided Methodology for Infilling Missing Pixels in Satellite Images Xinqi Guo Evaluating evapotranspiration equations in conceptual hydrological models: insights from flux tower data Gabrielle Burns Afternoon tea Panel Discussion (Center Stage 1) the Gap by Transforming Research into Industry-Ready Sustain only Lead, Arup Flosa Murdoch Chair, Landsca	Chair: D' Serene Ho Equi-GSPR: Equivariant SE(3) Graph Network Model for Sparse Point Cloud Registration Xueyang kang Open World Object Detection with Vision-Language Model Zizhao Li Predictive Models and Tools for Real-Time Flood Monitoring Alireza Haji Heldari Global localization for Mixed Reality visualization using wireframe extraction from images Sajjad Einizinab Al-Driven BIM Model Requirements for Automated Building Code Compliance SeyedehFatemeh Mirhosseini Low Earth Orbit (LEO)-augmented positioning in heavily GNSS signal-obstructed environments Songfeng Yang Occupancy Grid Mapping with Uncertain LiDAR Data Yuguang Liu Latent-conditioned point cloud diffusion for object augmentation in driving scenes Zhengkang Xiang Strategic Allocation of Landmarks to Reduce Uncertainty in Indoor Navigation Reza Arabsheibani Dr Patricia Sauri Lavieri	Forum 5 (Meeting Place 4) Transport Chair: Prof Russel Thompson Modelling the effects of travel time use on mode choice and the value of travel time savings Ana Luiza Santos de Sa ETA Predictions for Physical Internet Hubs Anshul Vijay Al-Driven Audio Signal Processing Applied in Intelligent Transportation Systems Hossein Parineh Investigation on the effects of road pricing on road safety Humberto Barrera-Jimenez Electric Vehicle Charging Access: User Perspectives and Implications to Accessibility Isrrah Malabanan Feature-Aware Unsupervised Detection of Important Nodes in Graphs Mohammadreza Ghanbari Al-Powered transit simulator: Integration between microscopic simulation and machine learning Mustafa Rezazada General algorithm of assigning raster features to vector maps at any resolution, size or scale Nan Xu Developing a hyperconnected and resilient logistic network design for peri-urban freight transportation Simon Anthony Lorenzo
1:30 PM 1:30 PM 1:30 PM 1:40 PM 2:50 PM 2:20 PM 2:30 PM 2:30 PM 3:30 PM 3:30 PM 3:30 PM	3:30 PM 1:40 PM 1:50 PM 2:00 PM 2:10 PM 2:20 PM 2:30 PM 3:30 PM 3:10 PM 3:20 PM 3:30 PM	Forum 1 (Center Stage 1) Structural Engineering Chair: A Prof Xumei Liu Design of high-strength concrete filled steel tubular columns under nonuniform fires Lalita Lama Development of Waste Wood Composites for Load-bearing Engineered Wood Products Isuri Tamura Amarasinghe Numerical Modelling of Liquid Hydrogen Boil-off Merinnage Susiri Vidarshaka Costa Numerical Analysis of Steel-Concrete Composite Shear Wall at Elevated Temperature Nav Raj Bhatt A study on the durability of bamboo strips using the constant immersion method Nimisha Kattumunda Impact of Progressive Expansion of Dataset on CNN Performance in Plastic Waste Sorting Nuwan Dewapurage Seismic performance and earthquake design of composite modular buildings Omar Ahmed Mohamed Morsy Sustainable Structural Insulated Panel System for a Decarbonised Construction Industry Rannulu Nipun De Zoysa Optimisation framework for design-to-delivery of prefabricated timber systems Sasindu Randil Samarawickrama Characterisation and Double-Sided Pullout Study of Recycled Flowline Steel Fibres Vito Nathaniel Lokito Missing Data Imputation for Structural Health Monitoring Using Modified WGAIN-GP Sumit Saha High-temperature Stability of Innovative Geocrete for Thermal Energy Storage (TES) Tran Phuc Nghia	Forum 2 (Meeting Place 1) Geotechnical Engineering Chair: Dr Philip Christopher Mapping Microannular Voids Formation on Existing Wellbore Cement for Underground Hydrogen Storage Amirthan Thirukumaran Numerical assessment of ground heat exchangers performance in a pit lake environment Mauricio Carcamo Medel Impact of Sample Preparation on Erosion and Post Erosion Mechanical Behaviour of Gap-Graded Soils Meysam Mousavi Numerical modelling of suction caissons under cyclic loading Nazish Ullah Soil-Structure Interaction Framework for Monopiles in Sand under Cyclic Loading Olgu Orakci Smart Offshore Site Investigation Using Free-Fall Penetrometers Parviz Tafazzoli Moghaddam Assessing Caprock Integrily for Underground Hydrogen Storage in Depleted Gas Reservoirs Pramod Dilshan Installation of helical pile in clayey soil Zeliang Li Large Deformation Modelling: a numerical approach in offshore geotechnics Ran Tu The influence of OWT installation process on the monopile foundation behaviour Shen Xie Fluid Inertia Effect on Flow Through Fracture Intersections Amila Vimukthi Edirisinghe Influence of Fluid Rheology on Fluid Flow in Natural Fracture Network Mai Cuong Bui Topic: Bridging Panelists: Fowler Dr Serryn Eag	Afternoon Sessions Forum 3 (Meeting Place 2) Environmental Hydrology and Water Resources Chair: Dr Yuhang Zhang When is a knowledge gap filled in environmental monitoring? Xiaoyan Dai Leveraging On-Site River Data and Heteroskedasticity in Bayesian Rating Curves Sai Vikas Kona Changes to rainfall intermittency at the catchment scale in Australia Steven Thomas Atmospheric Rivers leading to extreme flooding Sucheta Pradhan Network topology drives population temporalvariability in experimental habitat networks Yiwen Xu Challenges of using robustness metrics for water resources system management under uncertainty Yuan Cao Decadal Cycles in Global Rainfall - Initial Results Tobias Selkirk Improve representation of multi-annual dynamics in rainfall-runoff models Ziqi Zhang Estimating Nutrient Inputs to Agricultural Land Use to Predict Surface Water Quality Olaleye John Babatunde Flood Monitoring: A Hydrologically Guided Methodology for Infilling Missing Pixels in Satellite Images Xinqi Guo Evaluating evapotranspiration equations in conceptual hydrological models: insights from flux tower data Gabrielle Burns Afternoon tea Panel Discussion (Center Stage 1) the Gap by Transforming Research into Industry-Ready Sustain Glesoon Dry Lead, Arup Elisabeth Murdoch Chair, Landsca	Chair: D' Serene Ho Equi-GSPR: Equivariant SE(3) Graph Network Model for Sparse Point Cloud Registration Xueyang kang Open World Object Detection with Vision-Language Model Zizhao Li Predictive Models and Tools for Real-Time Flood Monitoring Alireza Haji Heldari Global localization for Mixed Reality visualization using wireframe extraction from images Sajjad Einizinab Al-Driven BIM Model Requirements for Automated Building Code Compliance SeyedehFatemeh Mirhosseini Low Earth Orbit (LEO)-augmented positioning in heavily GNSS signal-obstructed environments Songfeng Yang Occupancy Grid Mapping with Uncertain LiDAR Data Yuguang Liu Latent-conditioned point cloud diffusion for object augmentation in driving scenes Zhengkang Xiang Strategic Allocation of Landmarks to Reduce Uncertainty in Indoor Navigation Reza Arabsheibani Dr Patricia Sauri Lavieri	Forum 5 (Meeting Place 4) Transport Chair: Prof Russel Thompson Modelling the effects of travel time use on mode choice and the value of travel time savings Ana Luiza Santos de Sa ETA Predictions for Physical Internet Hubs Anshul Vijay Al-Driven Audio Signal Processing Applied in Intelligent Transportation Systems Hossein Parineh Investigation on the effects of road pricing on road safety Humberto Barrera-Jimenez Electric Vehicle Charging Access: User Perspectives and Implications to Accessibility Isrrah Malabanan Feature-Aware Unsupervised Detection of Important Nodes in Graphs Mohammadreza Ghanbari Al-Powered transit simulator: Integration between microscopic simulation and machine learning Mustafa Rezazada General algorithm of assigning raster features to vector maps at any resolution, size or scale Nan Xu Developing a hyperconnected and resilient logistic network design for peri-urban freight transportation Simon Anthony Lorenzo
1:30 PM 1:30 PM 1:30 PM 1:40 PM 2:00 PM 2:10 PM 2:20 PM 2:30 PM 3:30 PM 3:10 PM 3:20 PM 4:00 PM	3:30 PM 1:40 PM 1:50 PM 2:00 PM 2:10 PM 2:30 PM 2:30 PM 3:00 PM 3:10 PM 3:20 PM 3:20 PM 3:50 PM	Forum 1 (Center Stage 1) Structural Engineering Chair: A Prof Xumei Liu Design of high-strength concrete filled steel tubular columns under nonuniform fires Lalita Lama Development of Waste Wood Composites for Load-bearing Engineered Wood Products Isuri Tamura Amarasinghe Numerical Modelling of Liquid Hydrogen Boil-off Merinnage Susiri Vidarshaka Costa Numerical Analysis of Steel-Concrete Composite Shear Wall at Elevated Temperature Nav Raj Bhatt A study on the durability of bamboo strips using the constant immersion method Nimisha Kattumunda Impact of Progressive Expansion of Dataset on CNN Performance in Plastic Waste Sorting Nuwan Dewapurage Seismic performance and earthquake design of composite modular buildings Omar Ahmed Mohamed Morsy Sustainable Structural Insulated Panel System for a Decarbonised Construction Industry Rannulu Nipun De Zoysa Optimisation framework for design-to-delivery of prefabricated timber systems Sasindu Randil Samarawickrama Characterisation and Double-Sided Pullout Study of Recycled Flowline Steel Fibres Vito Nathaniel Lokito Missing Data Imputation for Structural Health Monitoring Using Modified WGAIN-GP Sumit Saha High-temperature Stability of Innovative Geocrete for Thermal Energy Storage (TES) Tran Phuc Nghia	Forum 2 (Meeting Place 1) Geotechnical Engineering Chair: Dr Philip Christopher Mapping Microannular Voids Formation on Existing Wellbore Cement for Underground Hydrogen Storage Amirthan Thirukumaran Numerical assessment of ground heat exchangers performance in a pit lake environment Mauricio Carcamo Medel Impact of Sample Preparation on Erosion and Post Erosion Mechanical Behaviour of Gap-Graded Soils Meysam Mousavi Numerical modelling of suction caissons under cyclic loading Nazish Ullah Soil-Structure Interaction Framework for Monopiles in Sand under Cyclic Loading Olgu Orakci Smart Offshore Site Investigation Using Free-Fall Penetrometers Parviz Tafazzoli Moghaddam Assessing Caprock Integrily for Underground Hydrogen Storage in Depleted Gas Reservoirs Pramod Dilshan Installation of helical pile in clayey soil Zeliang Li Large Deformation Modelling: a numerical approach in offshore geotechnics Ran Tu The influence of OWT installation process on the monopile foundation behaviour Shen Xie Fluid Inertia Effect on Flow Through Fracture Intersections Amila Vimukthi Edirisinghe Influence of Fluid Rheology on Fluid Flow in Natural Fracture Network Mai Cuong Bui Topic: Bridging Panelists: Fowler Dr Serryn Eag	Afternoon Sessions Forum 3 (Meeting Place 2) Environmental Hydrology and Water Resources Chair: Dr Yuhang Zhang When is a knowledge gap filled in environmental monitoring? Xiaoyan Dai Leveraging On-Site River Data and Heteroskedasticity in Bayesian Rating Curves Sai Vilkas Kona Changes to rainfall intermittency at the catchment scale in Australia Steven Thomas Atmospheric Rivers leading to extreme flooding Sucheta Pradhan Network topology drives population temporalvariability in experimental habitat networks Yiwen Xu Challenges of using robustness metrics for water resources system management under uncertainty Yuan Cao Decadal Cycles in Global Rainfall - Initial Results Tobias Selkirk Improve representation of multi-annual dynamics in rainfall- runoff models: Ziqi Zhang Estimating Nutrient Inputs to Agricultural Land Use to Predict Surface Water Quality Olaleye John Babatunde Flood Monitoring: A Hydrologically Guided Methodology for Infilling Missing Pixels in Satellite Images Xinqi Guo Evaluating evapotranspiration equations in conceptual hydrological models: insights from flux tower data Gabrielle Burns Afternoon tea Panel Discussion (Center Stage 1) the Gap by Transforming Research Into Industry-Ready Sustain glesoon Prof. Alex Felson Elisabeth Murdoch Chair, Landsca	Chair: D' Serene Ho Equi-GSPR: Equivariant SE(3) Graph Network Model for Sparse Point Cloud Registration Xueyang kang Open World Object Detection with Vision-Language Model Zizhao Li Predictive Models and Tools for Real-Time Flood Monitoring Alireza Haji Heldari Global localization for Mixed Reality visualization using wireframe extraction from images Sajjad Einizinab Al-Driven BIM Model Requirements for Automated Building Code Compliance SeyedehFatemeh Mirhosseini Low Earth Orbit (LEO)-augmented positioning in heavily GNSS signal-obstructed environments Songfeng Yang Occupancy Grid Mapping with Uncertain LiDAR Data Yuguang Liu Latent-conditioned point cloud diffusion for object augmentation in driving scenes Zhengkang Xiang Strategic Allocation of Landmarks to Reduce Uncertainty in Indoor Navigation Reza Arabsheibani Dr Patricia Sauri Lavieri	Forum 5 (Meeting Place 4) Transport Chair: Prof Russel Thompson Modelling the effects of travel time use on mode choice and the value of travel time savings Ana Luiza Santos de Sa ETA Predictions for Physical Internet Hubs Anshul Vijay Al-Driven Audio Signal Processing Applied in Intelligent Transportation Systems Hossein Parineh Investigation on the effects of road pricing on road safety Humberto Barrera-Jimenez Electric Vehicle Charging Access: User Perspectives and Implications to Accessibility Isrrah Malabanan Feature-Aware Unsupervised Detection of Important Nodes in Graphs Mohammadreza Ghanbari Al-Powered transit simulator: Integration between microscopic simulation and machine learning Mustafa Rezazada General algorithm of assigning raster features to vector maps at any resolution, size or scale Nan Xu Developing a hyperconnected and resilient logistic network design for peri-urban freight transportation Simon Anthony Lorenzo