



# CREST 2023 DETAILED PROGRAM



**FUKUOKA INTERNATIONAL CONGRESS CENTER  
NOVEMBER 20-22, 2023  
FUKUOKA, JAPAN**

**ORGANIZED BY**



**KYUSHU  
UNIVERSITY**





# Program at a Glance

Time	November 20, 2023 (Monday)							
9:00-13:00								
13:00-14:00								
14:00-16:00	Registration	Technical Tour	<b>On Demand Session</b>  (3F Main Hall)	<b>Workshop 1</b>  <b>Sustainability and Innovation in Geotechnical Engineering</b>  (Venue: Fukuoka International Congress Center 2F, Room 201)	<b>Workshop 2</b>  <b>Practices for Sustainable and Resilient Geotechnolgy</b>  (Venue: Fukuoka International Congress Center 2F, Room 202)	<b>Workshop 3</b>  <b>Slope Disaster Prevention in the Digital Era</b>  (Venue: IMI Auditorium, Kyushu University)	<b>Workshop 4</b>  <b>Scientific Writing and Publishing</b>  (Venue: Fukuoka International Congress Center 5F, Room 502)	<b>Workshop 5</b>  <b>International Youth Exchange on Interdisciplinary Engagement</b>  (Venue: Inamori Center, Kyushu University)
16:00-16:30								
16:30-17:00								
17:00-17:30								
18:00-19:30	<b>Welcome Reception</b> (Venue: Rooftop Garden Bagus, Nakasu)							



Time	November 21, 2023 (Tuesday)				
9:00 – 10:00	Opening Ceremony				
10:00 – 10:10	Break				
10:10 – 10:40	Plenary Lecture I				
10:40 – 11:05	Keynote Lecture 1				
11:05 – 11:30	Keynote Lecture 2				
11:30 – 11:45	Coffee Break				
11:45 – 12:10	Keynote Lecture 3				
12:10 – 12:35	Keynote Lecture 4				
12:35 – 13:30	Lunch Break				
13:30 – 13:55	Keynote Lecture 5				
13:55 – 14:20	Keynote Lecture 6				
14:20 – 14:45	Keynote Lecture 7				
14:45 – 15:10	Keynote Lecture 8				
15:10 – 15:30	Coffee Break				
15:30 - 16:50	Main Hall, 3F	Room 201	Room 202	Room 502	Room 503
	Theme Lecture 1	Theme Lecture 2	Theme Lecture 3	Theme Lecture 4	Theme Lecture 5
	Parallel Session I (AsRTC I Special Session)	Parallel Session 2	Parallel Session 3	Parallel Session 4	Parallel Session 5
16:50 – 17:10	Coffee Break				
17:10 - 18:30	Main Hall, 3F	Room 201	Room 202	Room 502	Room 503
	Theme Lecture 6	Theme Lecture 7	Theme Lecture 8	Theme Lecture 9	Theme Lecture 10
	Parallel Session 6 (TC 307 Special Session)	Parallel Session 7	Parallel Session 8	Parallel Session 9	Parallel Session 10

Main Hall, 3F

Time	November 22, 2023 (Wednesday)				
8:30 – 9:00	Plenary Lecture 2				
9:00 – 9:25	Keynote Lecture 9				
9:25 – 9:50	Keynote Lecture 10				
9:50 – 10:15	Keynote Lecture 11				
10:15– 10:35	Coffee Break				
10:35 – 11:00	Keynote Lecture 12				
11:00 – 11:25	Keynote Lecture 13				
11:25 – 11:50	Keynote Lecture 14				
11:50 - 12:15	Keynote Lecture 15				
12:15 – 13:00	Lunch Break				
13:00 – 14:00	Core Time for Poster Presentation				
14:00 – 14:50	Main Hall, 3F	Room 201	Room 202	Room 502	Room 503
	Theme Lecture 11	Theme Lecture 12	Young Researcher Special Lecture I	Young Researcher Special Lecture II	Young Researcher Special Lectures III & IV
	Parallel Session 11 (AsRTC 3 Special Session)	Parallel Session 12	Parallel Session 13	Parallel Session 14	Parallel Session 15
14:50 – 15:05	Coffee Break				
15:05– 16:05	Bright Spark Lectures (Main Hall, 3F)				
16:05 – 16:15	Break				
16:15 – 17:00	Closing Ceremony				
18:30 – 21:00	Conference Banquet (Venue: Nishitetsu Grand Hotel, Tenjin)				

Main Hall, 3F

Room 203 & 204



## Detailed Program

### November 20, 2023 (Monday)

9:00 - 17:00	<b>Technical Tour</b> (Refer to separate Technical Tour Guidebook for details)	Fukuoka International Congress Center
13:00 - 17:30	<b>Registration</b>	Fukuoka International Congress Center
14:00 - 17:00	<b>Workshops 1, 2 &amp; 4</b>	Fukuoka International Congress Center 2F, Room 201, 202 & 502
13:00 - 16:00	<b>Workshops 3 &amp; 5</b>	IMI Auditorium & Inamori Center Kyushu University

### On-Demand Sessions

Time: 14:30 - 17:00, November 20, 2023 (Monday)  
Venue: **Room 503**

### Keynote Lecture I6



**Biogeotechnics for Sustainable Geotechnical Innovation**  
*Prof. Jason DeJong*  
University of California Davis

USA

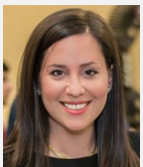
### Young Researcher Special Lecture V



**Role of Silica-Based Admixtures for Effective Stabilization of Problematic Soils**  
*Dr. Nripojyoti Biswas*  
Texas A&M University

USA

### Young Researcher Special Lecture VI



**Nonlinear Dynamic Analyses of Bio-Cemented Geosystems: Applications in Liquefaction Mitigation**  
*Dr. Katerina Ziotopoulou*  
University of California Davis

USA

18:00 - 19:30

**Welcome Reception**  
(Venue: Rooftop Garden Bagus, Nakasu)  
<https://www.bagus-99.com/es/>



# ORGANIZERS

ISSMGE Technical Committee TC 307 of ISSMGE  
Global Society for Smart Geo-Sustainnovation (GLOSS)

WS-1

WORKSHOP CREST2023

## “Sustainability and Innovation in Geotechnical Engineering”

### OVERVIEW

This workshop will be hosted by TC 307 and GLOSS with the following objectives:

- (1) Present innovative, environment-friendly and energy-efficient geotechnical techniques through collaboration with other disciplines for site investigation, construction, monitoring, and ground improvement;
- (2) Explore sustainable use of geotechnical systems and materials, including retrofitting and reuse of waste materials, foundations and other geotechnical structures;
- (3) Development of sustainability indicators and assessment tools in geotechnical engineering;
- (4) Explore Geotechnical techniques involved in the exploitation of renewable energy sources, such as shallow and deep geothermal, solar and other energies

### PROGRAM

14:00 - 14:02 Opening Remarks:  
CREST 2023 Chairperson Hemanta Hazarika, Professor, Kyushu University, Japan

14:02 - 14:07 Opening Remarks:  
Chairperson Anand J. Puppala, Chair -TC 307 , Professor, Texas A & M University, USA

14:08 - 14:27 Topic 1:  
“Foundation technologies for SDGs: Press-in pile technology & Rapid pile load test “  
Prof. Tatsunori Matsumoto, Professor Emeritus, Kanazawa University, Japan

14:28 - 14:47 Topic 2:  
“Applications of bioprecipitation for soil stabilization and environmental applications”  
Prof. Catherine Mulligan, Concordia University, Canada

14:48 - 15:07 Topic 3:  
“Perception on Sustainability & challenges for pavement engineering”  
Prof. Mizanur Rahman, University of South Australia, Australia

15:08 - 15:27 Topic 4:  
“Sustainable Mitigation of Highway Geohazard based on the Distribution of Landslide Susceptibility”,  
Prof. Albert J Shou, National Chung-Hsing University, Taiwan

15:27 - 15:35 Short break

15:36 - 15:55 Topic 5:  
“Sustainable infrastructure monitoring sensor platform”  
Prof. Haruichi Kanaya, Kyushu University, Japan

15:56 - 16:15 Topic 6:  
“Sustainable filling materials for land reclamation and their durability in marine environment”  
Dr. Yaolin Yi, Nanyang Technical University, Singapore

16:16 - 16:35 Topic 7:  
“Low carbon stabilization of Hong Kong marine deposits by sewage sludge ash for land reclamation”  
Dr. Fiona Kwok, University of Hong Kong, Hong Kong

16:36 - 16:55 Topic 8:  
“Sustainability Index for Reclaimed Materials”  
Prof. Sireesh Saride, Indian Institute of Technology Hyderabad, India

16:55 - 17:00 Closing Remarks  
Haruichi Kanaya, Director, GLOSS, Professor, Kyushu University, Japan



Prof. Puppala



Prof. Matsumoto



Prof. Mulligan



Prof. Rahman



Prof. Shou



Prof. Kanaya



Dr. Yi



Dr. Kwok



Prof. Saride

Participation fee: **FREE**  
Pre-registration is required !

### LANGUAGES

English



**MONDAY**  
**20 Nov. 2023**



**14:00–17:00**



**Room No.201**  
**2nd Floor,**  
**Fukuoka International**  
**Congress Center**

**SUSTAINABLE DEVELOPMENT GOALS**

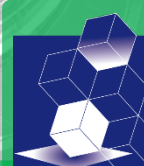


CREST-2023

Pre-registration site. <https://forms.gle/ciLDn8bM7D97CSdA>

More info. <https://www.ic-crest.com/>

[info@ic-crest.com](mailto:info@ic-crest.com)



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Consultant



# “Practices for Sustainable and Resilient Geotechnology”

On the day, a small gift will be given to the first fifty participants.

## OVERVIEW

The effects of climate change are becoming increasingly serious, and proper mitigation and adaptation measures are required for achieving SDGs and enhancing the resilience of society.

To ensure that national lands are resilient, not only the construction of safe and secure structures but also the development of specific technologies for adaptation to climate change are urgently needed.

The workshop will open with a keynote speech by Kazuya Yasuhara, Professor Emeritus of Ibaraki University, after which three organizations involved in the implementation of mitigation and adaptation measures will introduce their activities.

## PROGRAM

14:00 - 14:05 Opening Remarks:

CREST 2023 Chairperson Hemanta Hazarika, Professor, Kyushu University, Japan

14:05 - 15:05 Keynote Speech:

“Geotechnical Contribution to Climatic Sustainability”

Prof. Kazuya Yasuhara, Professor Emeritus, Ibaraki University, Japan

This presentation discusses responsive countermeasures to geo-hazards triggered by climate change within the context of SDGs. It emphasizes the importance of geotechnical adaptation and mitigation, as well as realizing synergy between these measures. Finally, it describes a proposal for geotechnical contributions to international organizations such as the Intergovernmental Panel on Climate Change (IPCC).

15:05 - 15:20 Short break

15:20 - 15:45 Topic 1:

“Contribution to climate change mitigation of using logs for liquefaction countermeasures: a case study”

Dr. Takumi Murata, Tobishima Corporation, Japan

This presentation focuses on the use of wood in geo-disaster countermeasures as part of climate change mitigation efforts. In addition, it presents a case where liquefaction countermeasures using logs were applied in a large residential area and discusses the climate change mitigation effects of this type of construction work.

15:45 - 16:10 Topic 2:

“Promoting the utilization of wood in regional cities and contributing to society through industry–government–academia collaboration”

Prof. Masaho Yoshida, President, Research Society of Wood Utilization in Fukui/ Professor, National Institute of Technology, Fukui College, Japan

This presentation introduces the activities of the Research Society of Wood Utilization, a collaboration of industry, government, and academia in Fukui Prefecture, a region with abundant wood resources. Members of the society work together with the aim of contributing to industrial development, regional revitalization, national resilience, and climate change mitigation.

16:10 - 16:35 Topic 3:

“LRRI’s Activities for Climatic Sustainability”

Prof. Kazuya Yasuhara, Representative Director, Local Resilience Research Institute/ Professor Emeritus, Ibaraki University, Japan

This presentation provides an overview of LRRI’s activities during the past three years aimed at increasing local resilience, highlighting responsive strategies against extreme climate events and compound disasters such as geotechnical hazards, from reactive to proactive measures, with an emphasis on SDGs.

16:35 - 16:55 Networking Session:

16:55 Closing

Participation fee: **FREE**  
Pre-registration is required !

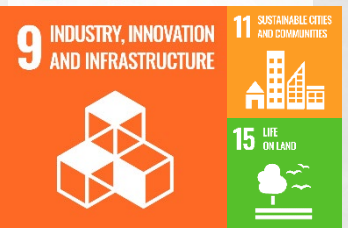
**LANGUAGES**  
Japanese  
(Slides in English and supplementary explanation in English)

**MONDAY**  
**20 Nov. 2023**

**14:00–17:00**

**Room No.202**  
2<sup>nd</sup> Floor,  
Fukuoka International  
Congress Center

**SUSTAINABLE DEVELOPMENT GOALS**



CREST-2023

Pre-registration site. <https://forms.gle/oqUnkEcT8YR5CJBJ7>

More info. <https://www.ic-crest.com/>

[info@ic-crest.com](mailto:info@ic-crest.com)







# ORGANIZERS

Institute of Mathematics for Industry (IMI), Kyushu University  
ISSMGE Asian Regional Technical Committee AsRTC 1

WS-3

WORKSHOP CREST2023

## "Slope Disaster Prevention in the Digital Era"

### OVERVIEW

This workshop aims to share state-of-the-art technologies for slope disaster prediction, maintenance and countermeasure based on numerical modeling and field monitoring. Furthermore, the workshop aims to strengthen networks among participants from industry, government, academia and various other scientific fields. The workshop will be divided into three sessions, namely lecture, panel discussion and networking, and, thereby promoting cross-sectoral discussions among the participants.

### PROGRAM



Prof. Ghosh



Dr. Kitada



Dr. Sakai



Dr. Tokuhsa



Dr. Yoshikawa



Dr. Sawada

13:00 - 13:05 Opening Remarks :

CREST 2023 Chairperson Hemanta Hazarika, Professor, Kyushu University, Japan

13:10 - 14:45 Lectures:

*"Bioengineering measures for slope stabilizations by vetiver grass system"*  
Prof. Chandan Ghosh, National Institute of Disaster Management, India

*"Regarding ground risk assessment based on topographical and geological features"*  
Dr. Naoko Kitada, Geo-Research Institute, Japan

*"Challenges in disaster response using slope monitoring with ICT"*  
Dr. Naoki Sakai, National Research Institute for Earth Science and Disaster Resilience, Japan

*"Full-scale field experiment of debris flow and its generation mechanism"*  
Dr. Aki Tokuhsa, K's Lab Inc., Japan

*"Application of three-phase elastoplastic finite deformation analysis to slope failure problem during rainfall"*  
Dr. Takahiro Yoshikawa, Nagoya University, Japan

*"Geotechnical approaches for preservation of openly exhibited Geo-relics damaged by rainfall infiltration"*  
Dr. Mai Sawada, Tokyo Institute of Technology, Japan

14:45 - 15:15 Panel discussion:

15:15 - 15:30 Networking Session:

15:30 Closing:

Participation fee: **FREE**  
Pre-registration is required !

### LANGUAGES

English



**MONDAY**  
**20 Nov. 2023**



**13:00-15:30**



**IMI Auditorium**  
**Ito Campus**  
**Kyushu University**

**SUSTAINABLE DEVELOPMENT GOALS**



CREST-2023

Pre-registration site. <https://forms.gle/kGgXk1wzmBHLWavA>



<https://www.ic-crest.com/>



[info@ic-crest.com](mailto:info@ic-crest.com)





# “Scientific Writing and Publishing”

## OVERVIEW

The face of scientific publishing is changing at a very fast pace. Swati Meherishi, Editorial Director-Applied Science and Engineering Springer, will speak briefly about the transitions and the needs of the publishing world and how researchers need to prepare for it.

This workshop has been devised specifically as a resource for teaching non-native English-speaking researchers, particularly young scientists how to achieve publication success.

Some of the key topics covered during this presentation are:

- (1) Writing for International Publications: Structure, Style and Accuracy
- (2) Selecting a Publication for your Manuscript,
- (3) Publication Ethics

## PROGRAM

### 14:00 - 14:05 Opening Remarks:

CREST 2023 Chairperson Hemanta Hazarika, Professor, Kyushu University, Japan

### 14:05 - 14:50 Introduction and Session 1:

#### Writing for International Publications

The session will include details on how to structure a research paper, what are the relevant sections, how should they be composed, dos and don'ts for each section, and language tips for writing journal articles.



**Swati Meherishi**  
Editorial Director-Applied  
Science and Engineering  
Springer

### 14:50 - 15:00 Short break:

### 15:00 - 15:45 Session 2:

#### Selecting a Publication for your Manuscript

This session will focus on factors to consider when selecting a home for your paper, how to find publications relevant to your topic area, and what do editors look for in papers.

### 15:45 - 15:55 Short break:

### 15:55 - 16:30 Session 3:

#### Publication Ethics

This session will highlight the ethical issues in publishing, such as plagiarism, self-plagiarism, ethical clearances, authorship disputes, etc. Participants will learn how to treat data and where to get advice on ethics.

### 16:30 - 17:00 Q&A:

#### Question and Answer session

The floor will be open for discussion and Swati will take questions from the participants.

Participation fee:  
**FREE**

Pre-registration  
is required !

## LANGUAGES

English



**MONDAY**  
**20 Nov. 2023**



**14:00-17:00**



**Room No.502**  
**5th Floor,**  
**Fukuoka International**  
**Congress Center**

**SUSTAINABLE  
DEVELOPMENT  
GOALS**

**4** QUALITY  
EDUCATION



**10** REDUCED  
INEQUALITIES



**17** PARTNERSHIPS  
FOR THE GOALS



CREST-2023

Pre-registration site.  <https://forms.gle/ZyuedbX2kG5aydX5A>

More info.  <https://www.ic-crest.com/>

 [info@ic-crest.com](mailto:info@ic-crest.com)







# “International Youth Exchange on Interdisciplinary Engagement”

## OVERVIEW

This workshop has the following objectives:

- (1) to provide an opportunity for international exchange of students and young researchers participating in CREST 2023, as well as young researchers and engineers who are active in their home countries and other countries after studying in Japan;
- (2) to exchange views on interdisciplinary research with Japanese students, and to promote friendship and cross-cultural communication among the participants.

The workshop will start with a special lecture by Prof. Noriyuki Yasufuku, Kyushu University, followed by presentation and discussion by young researchers and students.



Prof. Yasufuku

## PROGRAM

**13:00 - 13:05 Opening Remarks:**

CREST 2023 Chairperson Hemanta Hazarika, Professor, Kyushu University, Japan

**13:05 - 14:35 Keynote Speech:**

“Sustainable desertification prevention system in Mongolia through residents’ participation”

Prof. Noriyuki Yasufuku, Kyushu University, Japan

**14:35 - 14:45 Short break:**

**14:45 - 15:30 Young researcher and student interaction session:**

“The significance of natural disaster monuments in disaster prevention”  
Miho Tanaka, Kyushu University, Japan

“The impact of local communities on foreign guests’ intercultural understanding: a case study of Tsurui village, Hokkaido”  
Nanako Suga, Kyushu University, Japan

“Loss-on-Ignition methodology for assessing carbonate content and terrigenous material sediment samples from tidal flat and its importance for coral reefs of Nagura bay, Ishigaki island”  
Dhiva Althaf Pratama, Kyushu University, Japan

“Visualization of carbon dioxide emissions – environmental impact of a daily life”  
Sara Lake, Kyushu University, Japan

“An app to mitigate post-disaster risk”  
Murray, Juan Miguel Valle, Kyushu University, Japan

“Effectiveness of disaster storytelling In Japan”  
Serasaroshiya Chiempitayanuvat, Kyushu University, Japan

**15:30 - 15:40 Short break:**

**15:40 - 16:25 Home-coming session:**

Presentation on their experience of studying in Japan and current situation

**16:25 Closing Remarks**

Participation fee: **FREE**  
Pre-registration is required !

## LANGUAGES

English



**MONDAY**

**20 Nov. 2023**



**13:00–16:25**



**Inamori Center  
Ito Campus  
Kyusyu University**



### SUSTAINABLE DEVELOPMENT GOALS

**17 PARTNERSHIPS FOR THE GOALS**



**4 QUALITY EDUCATION**



**10 REDUCED INEQUALITIES**



Pre-registration site. <https://forms.gle/JLzGsrkyQx6wKYhC6>

More info. <https://www.ic-crest.com/>

[info@ic-crest.com](mailto:info@ic-crest.com)



## November 21, 2023 (Tuesday)

9:00 - 10:00

Opening Ceremony

Main Hall, 3F

10:00 - 10:10

Break

### Plenary Lecture 1

Time: 10:10 - 10:40, November 21, 2023 (Tuesday)

Venue: **Main Hall, 3F**

Session Chair: **Prof. Stuart Haigh, University of Cambridge, UK**

### Plenary Lecture 1

10:10 - 10:40



**The Requirements for Disaster Mitigation to be Sustainable**

*Prof. Ikuo Towhata*

Specially Appointed Professor, Kanto Gakuin University

Japan

### Keynote Lectures 1 & 2

Time: 10:40 - 11:30, November 21, 2023 (Tuesday)

Venue: **Main Hall, 3F**

Session Chair: **Prof. Takeshi Kodaka, Meijo University, Japan**

### Keynote Lecture 1

10:40 - 11:05



**A Methodology for Debris Flow Risk Analysis**

*Prof. Nicola Moraci*

Mediterranean University of Reggio Calabria

Italy

### Keynote Lecture 2

11:05 - 11:30



**Impact of Climate Change on Landslide Susceptibility and Landslide Hazard Resilience in Central Taiwan**

*Prof. Keh-Jian Shou*

National Chung-Hsing University

Taiwan

11:30 - 11:45

Coffee Break

### Keynote Lectures 3 & 4

Time: 11:45 - 12:35, November 21, 2023 (Tuesday)

Venue: **Main Hall, 3F**

Session Chair: **Prof. Rolando Orense, University of Auckland, New Zealand**

### Keynote Lecture 3

11:45 - 12:10



**Impact of Weathering of Embankment Materials and Aging Deterioration of Retaining Walls or Drainage Pipes on the Stability of Embankments During Earthquakes**

*Prof. Susumu Yasuda*

Tokyo Denki University

Italy

### Keynote Lecture 4

12:10 - 12:35



**Chain Disasters in Geotechnical Engineering Seen in the 2011 Great East Japan Disaster and Strategic Response**

*Prof. Motoki Kazama*

Tohoku University

Taiwan

12:35 - 13:30

Lunch Break




## Keynote Lectures 5-8

Time: 13:30 - 15:10, November 21, 2023 (Tuesday)


Venue: **Main Hall, 3F**

**Session Chair: Prof. Askar Zhussupbekov, Eurasian National University, Kazakhstan**


### Keynote Lecture 5

13:30 - 13:55		<b>Sustainable Ground Improvement Practices and Comprehensive Assessments for Problematic Expansive Soils</b> <i>Prof. Anand Jagadeesh Puppala</i> Texas A&M University	USA
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### Keynote Lecture 6

13:55 - 14:20		<b>Study on Climate Change Related Seismic Landslides of Loess Deposit</b> <i>Prof. Lanmin Wang</i> Lanzhou Institute of Seismology	China
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### Keynote Lecture 7

14:20 - 14:45		<b>Simple Prediction for Rainfall-Induced Slope Failures Based on Digital Elevation Model and Geological Information</b> <i>Prof. Akihiko Wakai</i> Gunma University	Japan
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### Keynote Lecture 8

14:45 - 15:10		<b>Geotechnical Seismic Isolation using Recycled Rubber Soil Mixtures: Past Achievements and Future Needs and Challenges</b> <i>Dr. Hing-Ho Tsang</i> Swinburne University of Technology	Australia
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15:10 - 15:30	<b>Coffee Break</b>		
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## Theme Lecture I / Parallel Session I

Time: 15:30 - 16:50, November 21, 2023 (Tuesday)

Venue: **Main Hall, 3F**

**Session Chair: Prof. Netra Prakash Bhandary, Ehime University, Japan**

### Theme Lecture I (AsRTC I Special Session)

15:30 - 15:50		<b>Disasters Paradigm and Damage Assessment</b> <i>Prof. Chandan Ghosh</i> National Institute of Disaster Management	India
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### Parallel Session I

Time	Paper ID	Title, Authors	Country
15:50 - 16:00	Y1548	<b>Non-Coaxial Behaviour of Clay Subjected to Cyclic Simple Shear Loading</b> <i>Yuwei Zhong, Haiying Fu, Yanyan Zhao, Jing Ye and Dong Wu</i>	China
16:00 - 16:10	V2073	<b>The Effect of Ground Condition on Seismic Amplification in the 2021 Mamuju Earthquake Sulawesi</b> <i>Ardy Arsyad, Muhasan P Hatta and Andi Imam Ardiansyah</i>	Indonesia

## Parallel Session 1

Time	Paper ID	Title, Authors	Country
16:10 - 16:20	K5433	<b>Integrated Water Resources Management Considering Geologic Features under Climate Change Development of an Analytical Tool for Langat River Basin in Malaysia</b> <i>Mitsuru Yabe, Hiroki Ohashi and Tadashi Yoshioka</i>	Japan
16:20 - 16:30	A7345	<b>The Factor Analysis of Debris-Flow Vibrational Signals using Machine Learning Methods</b> <i>Shu-Lin Chen, Yi-Min Huang and Chien-Chih Chen</i>	Taiwan
16:30 - 16:40	L2738	<b>Infiltration Depth Prediction Model Considering Soil Properties and Rainfall Conditions for Aeolian Sand Subgrade</b> <i>Xintong Song, Yaqi Zhang, Pengcheng Wang, Li Zhang and Peng Jing</i>	China
16:40 - 16:50	Y2129	<b>Centrifugal Tilting Tests on Vertical Reinforcement of the Dry Masonry Retaining Wall</b> <i>Kazuya Sano, Kazuya Itoh, Tsuyoshi Tanaka, Naooki Suemasa, Takeharu Konami and Shingo Taniyama</i>	Japan
16:50 - 17:10	<b>Coffee Break</b>		


## Theme Lecture 2 / Parallel Session 2

Time: 15:30 - 16:50, November 21, 2023 (Tuesday)

Venue: **Room 201**

**Session Chair: Dr. Nazli Yesiller, California Polytechnic State University, USA**

### Theme Lecture 2

15:30 - 15:50		<b>Role of Advanced Geotechnical Testing in Developing Environmentally Sustainable Strategies</b> <i>Prof. Gopal Santana Phani Madabhushi</i> University of Cambridge	UK
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### Parallel Session 2

Time	Paper ID	Title, Authors	Country
15:50 - 16:00	W2361	<b>An Experimental Study of the Distance Effect Away from Earthquake Fault on the Soil Deformation Characteristics</b> <i>Guojun Liu, Yingbin Zhang, Rongxiao Ma, Tianli Ding, Yating Yang and Shihao Zhang</i>	China
16:00 - 16:10	W1487	<b>Effect of Change in Penetration to Rotation Rate on Screw Pile Performance in Loose Sand</b> <i>Adnan Anwar Malik, Shekh Istiaq Ahmed, Jiro Kuwano and Tadashi Maejima</i>	Singapore
16:10 - 16:20	I9729	<b>Prediction of Failure of Embankment on Soft Clay from Construction Control Chart</b> <i>Bhanuchitra, M., Padmavathi, V. and Rao, P. N.</i>	India
16:20 - 16:30	I2027	<b>Efficient Algorithms for Solving Richards Equation: From Linearized Finite Element Method to Deep Learning</b> <i>Fengnan Liu, Yasuhide Fukumoto, Zhenzhen Hou, Haoyi Zheng and Xiaopeng Zhao</i>	Japan
16:30 - 16:40	H6575	<b>Evaluating the Saturated Permeability Coefficients of River Embankments Via Field Permeability Tests</b> <i>Keita Lee, Takeshi Kodaka, Masanori Ishihara and Yuichi Kubo</i>	Japan
16:40 - 16:50	U8309	<b>Effect of Wetting on Constant Volume Shear Behavior of Compacted Silty Soil</b> <i>Tufail Ahmad, Riko Kato and Jiro Kuwano</i>	Japan
16:50-17:10	<b>Coffee Break</b>		



## Theme Lecture 3 / Parallel Session 3

Time: 15:30 - 16:50, November 21, 2023 (Tuesday)

Venue: Room 202

Session Chair: Prof. Arul Arulrajah, Swinburne University of Technology, Australia

### Theme Lecture 3

15:30-15:50		<b>Evaluation of Wide Ground Deformation by InSAR Time Series Analysis</b> <i>Prof. Yasuhiro Mitani</i> Kyushu University	Japan
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### Parallel Session 3

Time	Paper ID	Title, Authors	Country
15:50 - 16:00	H7679	<b>Regular Deformation-Based Landslide Potential Detection with DInSAR - A Case Study of Taipei City</b> <i>Kuo-Lung Wang, Jun-Tin Lin, Shih-Yuan Lin, Chin-Long Lin, Min-His Hsieh and Jing Li</i>	Taiwan
16:00 - 16:10	R6705	<b>Analysis of Operational Energy Cost of Typical Residential Building (in Guwahati Located in North Eastern India) with Foam Concrete as Walling Material</b> <i>Chandrashekhar D. Wagh, Indu Siva Ranjani Gandhi and Vishal Shrivastava</i>	India
16:10 - 16:20	B3195	<b>A Smart TAM Grouting System for the Shaft and Base Grouting in Bangkok</b> <i>Shih-Hao Cheng, Min-Ju Li, Ricky K. N. Wong, Takeshi Iwakubo and Shinichi Ueno</i>	Taiwan
16:20 - 16:30	E2453	<b>A Stratigraphic Classification Estimation Method by the D-Layer Neural Networks</b> <i>Satoshi Murakami</i>	Japan
16:30 - 16:40	N8217	<b>The Use of Field Water Retention and Ambient Temperature for Developing the Soil-Water Characteristic Curve</b> <i>Randhilini Liyanage, Ahmad Mousa, Ankit Garg, Fauziah Ahmad and Vivi Anggraini</i>	Malaysia
16:40 - 16:50	R7958	<b>Machine Learning for Estimation of Surface Ground Structure by H/V Spectral Ratio</b> <i>Tetsuo Tobita and Wataru Yamamoto</i>	Japan
16:50 - 17:10	<b>Coffee Break</b>		

## Theme Lecture 4 / Parallel Session 4

Time: 15:30 - 16:50, November 21, 2023 (Tuesday)

Venue: Room 502

Session Chair: Prof. Kenichi Sato, Fukuoka University, Japan

### Theme Lecture 4

15:30-15:50		<b>Gravel-Rubber Mixtures: Macro- and Micro-Scale Engineering Properties</b> <i>Dr. Gabriele Chiaro</i> University of Canterbury	New Zealand
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### Parallel Session 4

Time	Paper ID	Title, Authors	Country
15:50 - 16:00	F7153	<b>Groundwater Control Measures for Deep Excavation of Bangkok MRT</b> <i>Pastsakorn Kitiyodom, Woraphon Wiriyatharakij and Anucha Yamchoo</i>	Thailand

## Parallel Session 4

Time	Paper ID	Title, Authors	Country
16:00 - 16:10	V6692	<b>Sustainable Stabilization of Reinforced Polymerized Subgrade under Cyclic Loading</b> <i>Aneke Frank Ikechukwu</i>	South Africa
16:10 - 16:20	D1099	<b>Multiphysics Numerical Modeling of Transient Transport of PFAS</b> <i>Arvin Farid and Pierrette Iradukunda</i>	USA
16:20 - 16:30	E1760	<b>Long-Term Drained Shear Properties of Steel Slags Mixed with Wood Chips</b> <i>Tomotaka Yoshikawa, Yoshiaki Kikuchi and Lincoln W. Gathuka</i>	Japan
16:30 - 16:40	X4248	<b>Management of Flood Debris: A Case History from Michigan, USA</b> <i>Nazli Yesiller, Derek C. Manheim and James L. Hanson</i>	USA
16:40 - 16:50	A5796	<b>Improvement of a Sabkha Soil Employing Waste Marble Powder</b> <i>Mohamed A. Hammad, Yahia Mohamedzein and Mohamed Al-Aghbari</i>	Oman
16:50-17:10	<b>Coffee Break</b>		


## Theme Lecture 5 / Parallel Session 5

**Time:** 15:30 - 16:50, November 21, 2023 (Tuesday)

**Venue:** Room 503

**Session Chair:** Prof. Taizo Kobayashi, Ritsumeikan University, Japan

### Theme Lecture 5

15:30-15:50		<b>Sheet Pile with Drainage Ability to Reduce Liquefaction-Induced Embankment Settlement</b> <i>Prof. Mitsu Okamura</i> Ehime University	Japan
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### Parallel Session 5

Time	Paper ID	Title, Authors	Country
15:50 - 16:00	F3441	<b>How to Implement Risk Management for Slope Disasters: A Case Study of the JICA Project in Honduras</b> <i>Kiyoharu Hirota, Takeshi Kuwano and Kosuke Uzawa</i>	Japan
16:00 - 16:10	G7043	<b>Investigation Study on Slope Failure in Kitakyushu City Due to Torrential Rainfall in July 2018</b> <i>Takashi Fujishiro and Hemanta Hazarika</i>	Japan
16:10 - 16:20	K1109	<b>Slope Movement Monitoring in Colluvium Deposit Landslide at Doi Chang, Thailand by Sentinel-1 Differential InSAR</b> <i>Sartsin Phakdimek, Daisuke Komori, Thapthai Chaithong and Suttisak Soralum</i>	Japan
16:20 - 16:30	W5976	<b>Nano Chemical Stabilisation of Soft Soil as a Paved Subgrade Material</b> <i>Ranga Swamy Kodi and Regi P Mohan</i>	India
16:30 - 16:40	G8963	<b>Investigation of the Interaction of the Lakhta Center with Soft Soil Ground in St. Petersburg</b> <i>Askar Zhussupbekov, Anel Zhussupbekova and Rashid Mangushev</i>	Russian Federation
16:40 - 16:50	I2237	<b>Slope Stability Analysis Based on Reconstructed Mesh Model Using DEM and ERT</b> <i>Hanxu Zhou and Ailan Che</i>	China
16:50-17:10	<b>Coffee Break</b>		



## Theme Lecture 6 / Parallel Session 6

Time: 17:10 - 18:30, November 21, 2023 (Tuesday)

Venue: Main Hall, 3F

Session Chair: Prof. Sireesh Saride, Indian Institute of Technology Hyderabad, India

### Theme Lecture 6 (TC 307 Special Session)

17:10 - 17:30		<b>Sustainability Slope Stabilization using Expanded Polystyrene-Ferrocement 8-Shaped Geomat</b> <i>Prof. Fauziah Ahmad</i> Universiti Sains Malaysia	Malaysia
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### Parallel Session 6

Time	Paper ID	Title, Authors	Country
17:30 - 17:40	K6455	<b>Impact of Waste Tire Fibre on the Hydro-Mechanical Behavior of Black Cotton Soil Under Different Pore Fluids</b> <i>N. Mahesh Babu and Anil Kumar Mishra</i>	India
17:40 - 17:50	D3296	<b>Environmental Impact of Recycled Crushed Concrete and Aluminum Salt Slag as used in Civil Infrastructure Construction</b> <i>Youli Lin, Farshid Maghool, Arul Arulrajah and Suksun Horpibulsuk</i>	Australia
17:50 - 18:00	T8292	<b>Landslide Analysis using Geographic Information System (GIS) in South Tapanuli Regency</b> <i>Ika Hastuty and Fauziah Ahmad</i>	Indonesia
18:00 - 18:10	K7278	<b>Sustainable Handling of Soft Soils During the Design of Major Infrastructure Projects</b> <i>Martin Tanderup, Michael Rosenlund Lodahl, Kristina Thomassen and Lars Bo Ibsen</i>	Denmark
18:10 - 18:20	H9778	<b>Synthesis of Management Measures for Water Resource Sustainability and Resilient Society: A Case Study of Mae Klong Watershed through Four Decade Evidences</b> <i>Charumas Meksumpun</i>	Thailand
18:20 - 18:30	U6555	<b>Geotechnical and Leaching Characteristics of the Indian Raw Phosphogypsum</b> <i>Yatesh Thakur, Akanksha Tyagi and Sudipta Sarkar</i>	India

## Theme Lecture 7 / Parallel Session 7

Time: 17:10 - 18:30, November 21, 2023 (Tuesday)

Venue: Room 201

Session Chair: Prof. Kenji Watanabe, University of Tokyo, Japan

### Theme Lecture 7

17:10 - 17:30		<b>CEEF Technology for Sustainable Housing - Neo Insights and Foresights</b> <i>Dr. Febi Varghese</i> Kerala State Nirmithi Kendra	India
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### Parallel Session 7

Time	Paper ID	Title, Authors	Country
17:30 - 17:40	Q6124	<b>Mechanical Behaviors of MICP Treated Binary Granular Materials Under One-Dimensional Consolidation</b> <i>Yu-Syuan Jhuo, Yi-Quan Lu, Vhang-Ping Yu and Louis Ge</i>	Taiwan
17:40 - 17:50	A5340	<b>Particle Morphology of Calcareous Sand and MICP-Treated Efficiency</b> <i>Bo Wang, Zhiqiang Liu and Longwei Chen</i>	China

## Parallel Session 7

Time	Paper ID	Title, Authors	Country
17:50 - 18:00	W3454	<b>Standards for Sustainable Geotechnical Construction: ASTM International Experience</b> <i>James L. Hanson, Nazli Yesiller, Tuncer B. Edil</i>	USA
18:00 - 18:10	S9521	<b>Diffusion Regularity of Permeable Polymer in Silt Fine Sand Affected by Various Parameters</b> <i>Yuke Wang, Rui Jiang, Bowen Yu and Yuyuan Chen</i>	China
18:10 - 18:20	I4715	<b>Contribution of Vetiver Grass Towards Slope Stability via Mechanical Root Reinforcement</b> <i>Ujwalkumar D. Patil, Myeong-Ho Yeo, Else Demeulenaere, Daniel Mabagos and Surya Sarat Chandra Congress</i>	USA
18:20 - 18:30	J6082	<b>Effect of Grain Size Distribution of Bed Materials on Destabilization of a River Pier due to Local Scour</b> <i>Souei Takezaki and Kenji Watanabe</i>	Japan

## Theme Lecture 8 / Parallel Session 8

**Time:** 17:10 - 18:30, November 21, 2023 (Tuesday)

**Venue:** Room 202

**Session Chair:** Dr. Agnieszka Dabska, Warsaw University of Technology, Poland

### Theme Lecture 8

17:10 - 17:30		<b>Protein-Assisted Eco-Friendly Bio-Based Ground Improvement Technique</b> <i>Prof. Toshiro Hata</i> Hiroshima University	Japan
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### Parallel Session 8

Time	Paper ID	Title, Authors	Country
17:30 - 17:40	T8857	<b>Experimental Study on Friction Capacity of Pile-Stabilized Soil Interface</b> <i>Jiajin Zhou, Shile Zhou, Rihong Zhang, Jianlin Yu and Xiaonan Gong</i>	China
17:40 - 17:50	F1669	<b>Stress-Strain Behavior of Geogrid Reinforced Steel Slag in Triaxial Test Condition</b> <i>Sanjana Sarkar and Amarnath Hegde</i>	India
17:50 - 18:00	P2205	<b>River-Basin Classification for Flood Risk Assessment in Indonesia</b> <i>Adityawan Sigit and Morihiro Harada</i>	Japan
18:00 - 18:10	A3838	<b>Regional Modelling of a Rainfall Induced Landslide in Idukki, Kerala by Incorporating Unsaturated Soil Properties: Case Study</b> <i>Musaib Ahmad and Divya P. V.</i>	India
18:10 - 18:20	H7236	<b>Effect of Coal Ash-Geogrid Interaction on Static and Dynamic Behavior of Ash-Filled MSE Walls</b> <i>Sajan Malviya and Prishati Raychowdhury</i>	India
18:20 - 18:30	H3832	<b>Sand Compaction Pile Method Utilizing Recycled Materials</b> <i>Hiroshi Yabe, Hidekatsu Takeuchi, Futoshi Ogata and Kenji Harada</i>	Japan


## Theme Lecture 9 / Parallel Session 9

**Time:** 17:10 – 18:30, November 21, 2023 (Tuesday)

**Venue:** Room 502

**Session Chair:** Prof. Charumas Meksumpun, Kasetsart University, Thailand

### Theme Lecture 9

17:10 - 17:30		<b>Community Outreach Through Soft-Type Measures in the Wake of an Initial Disaster</b> <i>Prof. Atsuo Sato</i> Kyushu University	Japan
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## Parallel Session 9

Time	Paper ID	Title, Authors	Country
17:30 - 17:40	<b>K6716</b>	<b>Single Pile Behavior under Repeated Horizontal Loading</b> <i>Yuka Sakoda, Atsushi Mohri, Yoshiaki Kikuchi, Shohei Noda, Tetsuo Okuno, Hirokazu Sugiyama and Kiyoshi Fukutake</i>	Japan
17:40 - 17:50	<b>K3285</b>	<b>Case Study on Application of an Innovative Method of Pulling Out the Earth Retaining Pile with Less Ground Surface Settlement</b> <i>Michiho Taoka, Yoshinori Fukubayashi, Hiroaki Watanabe and Yasuhiko Nishi</i>	Japan
17:50 - 18:00	<b>M7092</b>	<b>Application of Non-Traditional Bio-Based Additives in the Stabilization of Foundation Soil Under Static and Cyclic Loadings</b> <i>Avinash Kumar Singh and Jagdish Prasad Sahoo</i>	India
17:30 - 17:40	<b>I8576</b>	<b>Assessment of Landslide Potential for a Large-Area Forested Slope</b> <i>Chia-Cheng Fan, Wan-Ting Tseng, Kai-Min Yang and An-Ching Chung</i>	Taiwan
18:10 - 18:20	<b>J4947</b>	<b>Evaluation of Sampling Efficiency and Uncertainty in 3D Spatially Variable Slope Stability Assessment using Conditional Simulation</b> <i>Lihang Hu and Akihiro Takahashi</i>	Japan
18:20 - 18:30	<b>R9349</b>	<b>Seepage Model Experiment of Earth Fill Dam due to Heavy Rains</b> <i>Ryohei Hase, Yasuji Mihara, Dohta Awaji, Rieko Hojo and Shiken Shimizu</i>	Japan

## Theme Lecture 10 / Parallel Session 10

**Time:** 17:10 - 18:30, November 21, 2023 (Tuesday)

**Venue:** Room 503

**Session Chair:** Prof. Shinya Inazumi, Shibaura Institute of Technology, Japan

### Theme Lecture 10

17:10 - 17:30		<b>Construction of Reinforced Soil Structure in a Lateritic Soil - A Case Study of the Expansion of the Runway at Mangalore International Airport</b> <i>Ms. Minimol Korulla</i> Maccaferri Environmental Solutions Pvt. Ltd.	India
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### Parallel Session 10

Time	Paper ID	Title, Authors	Country
17:30 - 17:40	<b>Q4088</b>	<b>Physical and Mechanical Characterisation of Recycled Concrete Aggregates (RCA) as Compacted Fill in Road Pavement</b> <i>Chandanshree Nayak Suresh, Anitha Kumari S.D. and Sanjay Nimbalkar</i>	India
17:40 - 17:50	<b>S6979</b>	<b>Cyclic Behaviour and Liquefaction Characteristics of Laponite-treated Sands</b> <i>Gislaine P. Tobar and Rolando P. Orense</i>	New Zealand
17:50 - 18:00	<b>T2636</b>	<b>Performance of Granular Pile Foundation System for Expansive Soil</b> <i>Arpitha D., Prarthana K. C., Rajarajeshwari, Ranjitha S., Renukanth H. M., Sai Keerthi R., Varshini Amruthashree C. and Varun B. L.</i>	India
18:00 - 18:10	<b>A9520</b>	<b>Effect of Tire Derivative Particle Size on the Dynamic Properties and Liquefaction Behaviour of Sand-Tire Derivative Mixes</b> <i>Adyasha Swayamsiddha Amanta and Satyanarayana Murthy Dasaka</i>	India
18:10 - 18:20	<b>G3695</b>	<b>Drought and Management Approach for Sustainability of Tropical Reservoir Ecosystem: A Case Study of Ubolratana Reservoir, the Most Productive Reservoir in Northeast Thailand</b> <i>Jeeraya Muangsringam and Charumas Meksumpun</i>	Thailand
18:20 - 18:30	<b>F2959</b>	<b>Educational Journeys: Student Perception of School Life in Disaster Recovery Contexts</b> <i>Emily Orillon</i>	USA

November 22, 2023 (Wednesday)

## Plenary Lecture 2

Time: 8:30 - 09:00, November 22, 2023 (Wednesday)

Venue: **Main Hall, 3F**

**Session Chair: Prof. Catherine Mulligan, Concordia University, Canada**

### Plenary Lecture 2

8:30 - 09:00



#### **International Trend for Disaster Risk Reduction and Requesting for Academia from Donor's Point of View**

*Prof. Kimio Takeya*

Japan International Cooperation Agency & Tohoku University

Japan

## Keynote Lectures 9-11

Time: 09:00 – 10:15

Venue: **Main Hall, 3F**

**Session Chair: Prof. Saojeng Chao, National Ilan University, Taiwan**

### Keynote Lecture 9

09:00 - 09:25



#### **Radio Wave Micro Energy Harvesting Circuit and its Implantable Applications**

*Prof. Haruichi Kanaya*

Kyushu University

Japan

### Keynote Lecture 10

09:25 - 09:50



#### **The Soil Depth Estimation for Landslides Analysis by using Geographic Information and Satellite Images**

*Prof. Sangseom Jeong*

Yonsei University

Korea

### Keynote Lecture 11

09:50 - 10:15



#### **Management of Groundwater in the Nobi Plain that Modeled Groundwater Use for Earthquake Disasters and Improvement of Aquatic Environment**

*Prof. Kenji Daito*

Daido University

Japan

10:15-10:35

**Coffee Break**



## Keynote Lectures 12-15

Time: 10:35 – 12:15, November 22, 2023 (Wednesday)


Venue: **Main Hall, 3F**

**Session Chair: Prof. James L. Hanson, California Polytechnic State University, USA**

### Keynote Lecture 12

10:35 - 11:00		<b>Smart Data-Driven Approach for Developing Resilient Society</b> <i>Dr. Hemanta Doloi</i> The University of Melbourne	Australia
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### Keynote Lecture 13

11:00 - 11:25		<b>Science, Technology and Innovation in Disaster Risk Reduction</b> <i>Prof. Rajib Shaw</i> Keio University	Japan
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### Keynote Lecture 14

11:25 - 11:50		<b>Extreme Rainfall Caused by Climate Change and Its Effects on Debris Flow Hazard in Taiwan</b> <i>Prof. Meei-Ling Lin</i> National Taiwan University	Taiwan
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### Keynote Lecture 14

11:50 - 12:15		<b>Geotechnical Hazards in the 2023 Turkey-Syria Earthquake</b> <i>Prof. Tetsuo Tobita</i> Kansai University	Japan
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12:15 - 13:00

Lunch Break

13:00 - 14:00

Core Time for Poster Presentation

Room  
203 & 204


## Theme Lecture 11 / Parallel Session 11

Time: 14:00 - 14:50, November 22, 2023 (Wednesday)

Venue: **Main Hall, 3F**

**Session Chair: Prof. Mitsu Okamura, Ehime University, Japan**

### Theme Lecture 11

14:00 - 14:20		<b>Artificial Intelligence in Disaster Mitigation</b> <i>Dr. Pijush Samui</i> National Institute of Technology Patna	India
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### Parallel Session 11 (AsRTC 3 Special Session)

Time	Paper ID	Title, Authors	Country
14:20 - 14:30	<b>U3961</b>	<b>A Study on the Use of Waste Plastic as Partial Replacement to Sand Fine Aggregate in Concrete</b> <i>Vivek Sarella, Hari Krishna Padavala, Gunneswara Rao and Tippabhotla Durga</i>	India
14:30 - 14:40	<b>A8334</b>	<b>A Modified Critical State Model and its Application in Haikou Red Clay</b> <i>Xiaowen Wang, Bohan Wu, Kai Cui and Ran Yuan</i>	China
14:40 - 14:50	<b>N5242</b>	<b>Utilization of Timber Pile as a Reinforcement for Loose Sandy Soil</b> <i>Suyadi Suyadi and Tri Harianto</i>	Indonesia

14:50 - 15:05

Coffee Break

## Theme Lecture 12 / Parallel Session 12

Time: 14:00 - 14:50, November 22, 2023 (Wednesday)

Venue: **Room 201**

**Session Chair: Dr. Anil Kumar Mishra, Indian Institute of Technology Guwahati, India**

### Theme Lecture 12

14:00-14:20		<b>Earthquake Damage and an Attempt to Evaluate the Availability of Port Facilities by Displacement Survey</b> <i>Dr. Eiji Kohama</i> Port and Airport Research Institute	Japan
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### Parallel Session 12 (AsRTC 3 Special Session)

Time	Paper ID	Title, Authors	Country
14:20 - 14:30	<b>G2145</b>	<b>Lime Softening Sludge Reuse in Geoenvironmental Construction</b> <i>Agnieszka Dabska</i>	Poland
14:30 - 14:40	<b>E8381</b>	<b>Structural Strategy for Risk Mitigation of Bridges Subjected to Earthquake-Induced Ground Deformation</b> <i>Hideaki Nishida, Ken Oenoki, Fumi Miyahara and Jun-ichi Hoshikuma</i>	Japan
14:40 - 14:50	<b>X8591</b>	<b>Aso Ohashi Bridge Area Slope Disaster Reconstruction Project Executed by Un-manned Construction Method Using i-Construction</b> <i>Shinichi Nomura, Naoto Yamagami and Tsuyoshi Nakade</i>	Japan
14:50 - 15:05	<b>Coffee Break</b>		

## Young Researcher Special Lecture I / Parallel Session 13

Time: 14:00 - 14:50, November 22, 2023 (Wednesday)

Venue: **Room 202**

**Session Chair: Dr. Taichi Hyodo, Toyama Prefectural University, Japan**

### Young Researcher Special Lecture I

14:00 - 14:20		<b>Finite Element Analysis of Slope Stability Considering Soil Strength Anisotropy</b> <i>Dr. Yi He</i> Southwest Jiaotong University	China
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### Parallel Session 13

Time	Paper ID	Title, Authors	Country
14:20 - 14:30	<b>J7954</b>	<b>Furfural Extracted Corncob Ash: A New Geo-material for Sustainable Construction</b> <i>Vamsi Nagaraju, Venkata Rao M, Sunil B M, Babloo Chaudhary</i>	India
14:30 - 14:40	<b>W4608</b>	<b>Hydro-Mechanical Effect of Vetiver Root on Laterite Soil</b> <i>Safa T.T., Mahima D., Jayasree P.K. and Balan K.</i>	India
14:40 - 14:50	<b>E2713</b>	<b>Roles of Coarser-Grained Soil Layers in Capillary Barrier System</b> <i>Mai Sawada, Mamoru Mimura and Shigemasa Murai</i>	Japan
14:50 - 15:05	<b>Coffee Break</b>		



## Young Researcher Special Lecture II / Parallel Session 14

Time: 14:00 - 14:50, November 22, 2023 (Wednesday)

Venue: **Room 502**

Session Chair: **Dr. Amarnath Hedge, Indian Institute of Technology Dharwad, India**

### Young Researcher Special Lecture II

14:00 - 14:20		<b>Bioelectric Response of Root Systems for Predicting Shallow Slope Failure</b> <i>Dr. Zentaro Furukawa</i> Okayama University	Japan
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### Parallel Session 14

Time	Paper ID	Title, Authors	Country
14:20 - 14:30	<b>K1776</b>	<b>Disaster Preparedness and Perception of Earthquake Risk: A Case of Samoeng Nuea Sub-District and Samoeng Tai Sub-District, Chiang Mai, Thailand</b> <i>Thapthai Chaithong, Kanyaporn Parung, Jirapa Khoysungnoen, Panyawi Tanseenawanon and Shupisara Jingsyngnoen</i>	Thailand
14:30 - 14:40	<b>D8340</b>	<b>Developing Effective Flood Inundation Maps for Risk Communication and Evacuation Planning in Obuse, Japan</b> <i>Mizuki Sakai, Yugo Hashimoto, Naoki Todoroki, Yoshinori Furumoto and Toru Oomiya</i>	Japan
14:40 - 14:50	<b>F4824</b>	<b>Estimation of Effect of Antecedent Rainfall on Coseismic Landslides</b> <i>Ryo Endo and Junko Iwahashi</i>	Japan

14:50 - 15:05

Coffee Break


## Young Researcher Special Lectures III & IV / Parallel Session 15

Time: 14:00 - 14:50, November 22, 2023 (Wednesday)


Venue: **Room 503**

Session Chair: **Prof. Daisuke Suetsugu, University of Miyazaki, Japan**

### Young Researcher Special Lecture III

14:00 - 14:20		<b>Temporal Variation-Based Nonlinear Velocity Profile Law for Debris Flows using Hierarchical Statistical Algorithm of 3D-SPH Simulation</b> <i>Prof. Zheng Han</i> Central South University	China
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### Young Researcher Special Lecture IV

14:20 - 14:40		<b>Assessing the Hydro-Chemo-Mechanical Behavior of Marble Dust-Bentonite Mixes to be used as a Geomaterial</b> <i>Dr. Arvind Kumar Jha</i> Indian Institute of Technology Patna	India
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### Parallel Session 15

Time	Paper ID	Title, Authors	Country
14:40 - 14:50	<b>D5038</b>	<b>Visualization of Seepage Behavior in a Model Ground Around Sheet Pile Using <math>\mu</math>-Focused X-Ray CT System</b> <i>Hikaru Mouri, Takahiro Sato, Toshifumi Mukunoki and Jun Otani</i>	Japan

14:50 - 15:05

Coffee Break

## Bright Spark Lectures I-3

Time: 15:05 - 16:05, November 22, 2023 (Wednesday)

Venue: **Main Hall, 3F**

Session Chair: **Prof. Arvin Farid, Boise State University, USA**

### Bright Spark Lecture 1

Time	Paper ID	Title, Authors	Country
15:05 - 15:25	<b>B2959</b>	<b>Laboratory Evaluation of Geocell Reinforcement Technology for Road Restoration</b> <i>Shintaro Miyamoto and Yoshihisa Miyata</i>	Japan

### Bright Spark Lecture 2

15:25 - 15:45	<b>T6800</b>	<b>Some Insight into Effects of Primary Curing Conditions on the Strength Development of Soils Treated with Paper Sludge Ash-based Stabilizer</b> <i>Navila Tabassum, Kimitoshi Hayano and Hiromoto Yamauchi</i>	Japan
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### Bright Spark Lecture 3

15:45 - 16:05	<b>O5975</b>	<b>Centrifuge Modeling of Highway Embankment Improved by Hybrid Type Reinforcement</b> <i>Chengjiong Qin, Hemanta Hazarika, Yoshifumi Kochi, Masanori Murai, Hideo Furuichi, Guojun Liu, Naoto Watanabe, Shinichiro Ishibashi and Daisuke Matsumoto</i>	Japan
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16:05 - 16:15

**Break**

16:15 - 17:00

**Closing Ceremony**

18:30 - 21:00

**Conference Banquet**  
(Nishitetsu Grand Hotel, Tenjin)  
<https://nnr-h.com/grandhotel/>



## Poster Session

Posting Time: 9:00 - 11:00, November 21, 2023 (Tuesday)

Presentation Time: 13:00 - 14:00, November 22, 2023 (Wednesday)

Venue: **Room 203**

Paper ID	Title, Authors	Country
K6736	<b>A Bayesian-Based Approach for Post-Disaster Recovery Estimation Enhancement</b> <i>Prabin Acharya, Yue Zhao and Fangzhou Liu</i>	Canada
G8506	<b>A Preliminary Searching Attempt for the Liquefied Critical Void Ratio of Soil Particles in Yilan Area, Taiwan</b> <i>Sao-Jeng Chao and Hong-Yu Chen</i>	Taiwan
S2487	<b>Advance of Gross National Safety for Natural Disasters: GNS Calculation at the Municipal Level in Japan</b> <i>Kyohei Yasukuni, Kazuya Itoh, Tomofumi Koyama and Mamoru Kikumoto</i>	Japan
P9343	<b>AI Based Slope Hazard Analysis of 2011 Niigata-Fukushima Heavy Rainfall Disaster in Japan</b> <i>Rin Kobayashi, Satoru Ohtsuka, Shigeaki Oka, Shunichi Onitsuka and Naoaki Kawamura</i>	Japan
L1521	<b>An Experimental Study on the Effect of Herbaceous Plants against Concentrated Flow using RGB Image Analysis</b> <i>Takuya Masamoto, Kazunari Sako and Shinichi Ito</i>	Japan
X7325	<b>Anomaly Detection Method for Strain of Slope Surface Using Deep Learning</b> <i>Ryota Nakane, Nobutaka Hiraoka, Naotaka Kikkawa, Kazuki Hiranai and Kazuya Itoh</i>	Japan
F5522	<b>Centrifuge Modeling on Capture Performance of Tilted Open Type Sabo Dam</b> <i>Gaoyuan Lyu, Akihiko Hirooka and Hajime Kiyokuni</i>	Japan
R2211	<b>Characteristics of Debris Flow that Crosses Bhutan's Mountain Roads and its Countermeasures</b> <i>Tomohiro Nishimura, Kiyoharu Hirota and Tomoharu Iwasaki</i>	Japan
E2442	<b>Collapse Behavior and Countermeasures by Centrifuge Field Rainfall Experiments on Model Slopes</b> <i>Kakeru Tasaki, Kazuya Itoh, Kazuya Sano, Masahiro Funamoto and Takahiro Nonaka</i>	Japan
G5869	<b>Elimination of Geotechnical Risks of the Landfill Body Situated on the Spoil Heap by Monitoring</b> <i>Petr Cernoch and Jiri Kostal</i>	Czech Republic
V2514	<b>Estimation of Active Earth Pressure Acting on a Retaining Wall during an Earthquake by Logarithmic Spiral Method</b> <i>Matsuri Ozawa, Kazuya Sano, Anurag Sahare, Kazuya Itoh and Naoaki Suemasa</i>	Japan
L8054	<b>Evolution Process of Cutting Landslide Considering Damage Accumulation Effect</b> <i>Ganglie Yuan and Ailan Che</i>	China

## Poster Session

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Paper ID	Title, Authors	Country
S3619	<b>An Experimental Study on the Phenomenon of Increase in Earth Pressure Acting on Integral Bridge Subjected to Reciprocal Load</b> <i>Satoshi Makino, Tatsuo Sega and Hidetoshi Nishioka</i>	Japan
J3334	<b>Landslide Susceptibility in a Highly-Cultivated Hilly Region: Artificial Slope Construction in 1963-1979 and the Subsequent 2018 Landslide Event in Omishima Western Japan</b> <i>Takashi Kimura, Go Sato, Takatsugu Ozaki, Nguyen Van Thang and Akihiko Wakai</i>	Japan
R1575	<b>Landslide Susceptibility Mapping of Chamoli (Uttarakhand) Using Random Forest Machine Learning Method</b> <i>Amogh Mittal, Kunal Gupta and Neelima Satyam</i>	India
B9001	<b>Seismic Signal Analysis for Landslide: Detection and Classification</b> <i>Mukat Lal Sharma and Deepak Rawat</i>	India
P9872	<b>Stability Analyses of SRM Slopes with Anti-sliding Piles Using 2D DDA-SPH</b> <i>Changze Li and Guangqi Chen</i>	Japan
W3738	<b>Study on Agitating Blade Angle and Incident Angle in Mechanical Agitation Method</b> <i>Kaho Fukuda, Kazuya Itoh and Arashi Shimano</i>	Japan
O3099	<b>The Effect of Vibration on the Sediment of Foundations of Turbine Units in Nuclear Power Plants</b> <i>Shakhmaksut Altynbekov</i>	Kazakhstan
X9985	<b>The Strongest Pulse Identification Algorithm Based on the Maximum PGV of Three Orthogonal Components</b> <i>Zhiyuan Li, Hemanta Hazarika, Guangqi Chen, Zishuang Han and Chaofan Feng</i>	Japan
D5710	<b>2D Model Tests of Sheet-Pile Reinforcement Method for Existing Pile Foundations</b> <i>Takatoshi Sagawa, Tsubasa Ohata and Hidetoshi Nishioka</i>	Japan
Y9156	<b>A Fundamental Study on Carbon Sequestration in Cement-Treated Ground</b> <i>Yuhei Kurimoto, Yuya Yoda, Keisuke Kojima and Yoshiharu Asaka</i>	Japan
S2446	<b>Application of Phase Change Materials for Thermal Stabilization of Soils in Cold Regions</b> <i>Ekaterina Kravchenko and Charles Wang Wai Ng</i>	Hong Kong
H1605	<b>Case-Studies of Vibration Method to Evaluate Residual Tensile Force of Ground Anchors</b> <i>Naoto Ogawa, Takamasa Niibe, Hideki Saito, Mitsuru Yamazaki and Atsushi Yashima</i>	Japan



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Paper ID	Title, Authors	Country
Y9136	<b>Development of Ground Freezing Method using Natural Refrigerants and its Applications</b> <i>Kosuke Maejima, Hiroshi Soma and Yuta Shioya</i>	Japan
R5838	<b>Application of Groundwater Recharge for Subsidence Prevention</b> <i>Hidehiko Hayashi, Akira Ishikawa and Nobuaki Kohsaka</i>	Japan
C4511	<b>Efficient Construction of Groundwater Level Observation Holes for Monitoring of Slope Disasters</b> <i>Yoshikazu Ochi and Sonoda Atsushi</i>	Japan
S4044	<b>Estimation of Inundation Mitigation Potential due to Time Variability in Japan</b> <i>Sora Maruta and Seiki Kawagoe</i>	Japan
G5929	<b>An Investigation into Smart Integral Bridge Designs</b> <i>Douglas G Morley, Yazan B Asia, Gopal SP Madabhushi, Indrasenan Thusyanthan and Dennis Sakufiwa</i>	UK
P4154	<b>Observations and Analysis of Vertical One Dimension Rainfall Seepage Flow Phenomenon</b> <i>Koichi Tsubogo, Kohei Araki, Yasushi Fukuda, Keiji Kuajima, Kosuke Katayama and Shunji Ue</i>	Japan
P5409	<b>Predicting Hydro-Thermal Environment Characteristics in Underground Spaces of a Tumulus Mound</b> <i>Mai Sawada, Mamoru Mimura and Sumire Tani</i>	Japan
N7444	<b>Study on Compaction and Unconfined Compressive Strength characteristics of Magnesium Carbonate Mixed Soils</b> <i>Navya Ann Eldho and Hailong Wang</i>	Japan
S9663	<b>Technology to Reduce Environmental Impact of Jet Grouting Technology</b> <i>Junichi Yamanobe, Toshiyuki Kamata, Kazutoshi Ishikawa, Toshiaki Jin, Yosuke Watanabe and Keisuke Ohkubo</i>	Japan
G5764	<b>Experimental Study on the Bearing Capacities of Sheet Pile Foundation in Saturated Clay Ground</b> <i>Xi Xiong, Jiayu Chen, Tatsunori Matsumoto and Yukihiro Ishihara</i>	Japan
S9946	<b>An Approach for Evacuation Vulnerability Assessment with Consideration of Predicted Evacuation Time</b> <i>Zishuang Han, Kohei Kawano, Ibrahim Djameluddin, Takumi Sugahara, Hiroyuki Honda, Hisatoshi Taniguchi and Yasuhiro Mitani</i>	Japan
PI862	<b>Development and Applicability Assessment of a Tunnel Face Monitoring System Against Tunnel Face Collapse</b> <i>Ryohei Hase, Yasuji Mihara, Dohta Awaji, Rieko Hojo and Shiken Shimizu</i>	Japan

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Paper ID	Title, Authors	Country
L8208	<b>Development of an Advanced Landslide Simulation using Clustering Technology</b> <i>Kazuo Matsuura and Yasuhide Fukumoto</i>	Japan
N4709	<b>Development of Real-Time Measuring System of Tip Position with Deep Mixing Methods</b> <i>Hong- Son Nguyen, Yuji Adachi, Minoru Yamada, Toshiaki Takaue, Masato Kobayashi, Moriyasu Takada and Shinya Inazumi</i>	Japan
M8936	<b>Landslide Risk Prediction and Regional Dependence Evaluation Based on Disaster History Using Machine Learning and Deep Learning</b> <i>Fudong Ren and Koichi Isobe</i>	Japan
Q3837	<b>Numerical Simulations for Seismic Response of Laterally Loaded Pile Foundation</b> <i>Tanmoy Barikand Babloo Chaudhary</i>	India
R2955	<b>Response of Offshore Wind Turbine Foundation Subjected to Earthquakes, Sea Waves &amp; Wind Waves: Numerical Simulations</b> <i>Subodh Kumar, Babloo Chaudhary, Manu K. Sajan and Akarsh P. K</i>	India
G7471	<b>Seismic Response Characteristics of Loess Slope in Seasonally Frozen Regions Using Shaking Table Test</b> <i>Jinchang Chen, Ailan Che, Zhijian Wu and Lanmin Wang</i>	China
UI534	<b>Seismic Responses of Rubble Mound Breakwater : Numerical Analyses</b> <i>Akarsh P K, Babloo Chaudhary, Manu K Sajan and Subodh Kumar</i>	India
L5756	<b>Stability Analysis of Rubble Mound Breakwaters under Tsunami Overflow</b> <i>Manu K Sajan, Babloo Chaudhary, Akarsh P K and Subodh Kumar</i>	India
M8129	<b>Experimental Study of Warm Permafrost Mechanical Property under Cyclic Load</b> <i>Liwei Song, Junfang Liu, Xiaomin Liu and Xin Zhao</i>	China
X8004	<b>A Decision Support Tool for the Sustainability Rating Index for the Maintenance of Low Volume Rural Roads in India</b> <i>RajiReddy Myakala and S. Shankar</i>	India
X9759	<b>Anisotropy of Pressure Generated by Water Absorption of Deformation-Constrained Granular Bentonite Specimens</b> <i>Yuta Ichikawa, Hideo Komine and Shigeru Goto</i>	Japan
V9005	<b>Estimating the Effects of Community Disaster Management Plan on Disaster Risk Reduction Literacy Using Propensity Score Analysis</b> <i>Takumi Sugahara, Shinya Fujimoto, Hiroyuki Hounda, Hisatoshi Taniguchi, Tabihito Fujihara and Yasuhiro Mitani</i>	Japan



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Paper ID	Title, Authors	Country
<b>R5517</b>	<b>Evaluation of Liquefaction Strength Prediction Method for Low Improvement Ground Materials</b> <i>Koji Yamamoto, Kenichi Sato, Takuro Fujikawa and Chikashi Koga</i>	Japan
<b>S3585</b>	<b>Research on Methods for Determining and Understanding the Soundness of Retaining Walls using Image Analysis</b> <i>Kenki Owada, Anurag Sahare, Kazuya Itoh and Naoki Suemasa</i>	Japan

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Paper ID	Title, Authors	Country
<b>X6732</b>	<b>Application Example of a Volume Reduction System for Dredging Sludge by Screw Decanter Centrifuge</b> <i>Mizuno Kenta and Matsumoto Kouji</i>	Japan
<b>P4712</b>	<b>Development of Environment-Friendly Base Materials for Seaweed Beds using Recycled Materials and its Long-Term Monitoring</b> <i>Kentaro Yamamoto, K. Fukuda, T. Negami, N. Mizoguchi, H. Hira and Y. Tsurunari</i>	Japan
<b>R5059</b>	<b>Effect of Natural Pozzolans Inclusion on CBR Value of Dredged Soil Material</b> <i>Komang Arya Utama and Tri Harianto</i>	Indonesia
<b>D6842</b>	<b>Effect of Steam Curing on the Compressive Strength of Concrete with Blast Furnace Slag</b> <i>Chunghao Wu, Kaohao Chang and Huang Hsing Pan</i>	Taiwan
<b>B7920</b>	<b>Effect of Thermal Activation of Powders Obtained from Multi-recycled Concrete on the Performance of Cementitious Materials</b> <i>Jeonghyun Kim and Haneol Jang</i>	Poland
<b>B2111</b>	<b>Effects of Biomass Soil Mixtures on Dynamic Behavior</b> <i>Tatsuya Yoshizaki, Taichi Hyodo, Taiyo Terasako, Shinya Uchida, Naoki Tatta, Hiroyuki Nagai and Yang Wu</i>	Japan
<b>L6437</b>	<b>EPS as an Inclusion Material: An Instrumented Field Study on Retaining Wall</b> <i>Dinesh Bishnoi, Vikas Patil and S.M. Dasaka</i>	India
<b>P5317</b>	<b>Experimental Study on Mechanical Properties of Soft Clay Stabilized by Industrial By-Products</b> <i>Jianlin Yu, Teng Wang, Jiajin Zhou, Rihong Zhang and Xiaonan Gong</i>	China

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Paper ID	Title, Authors	Country
<b>B6109</b>	<b>Experimental Study on Solidification/Stabilization of Phenol-Contaminated Soil by Geopolymer</b> <i>Junfang Liu, Lin Liu, Xiangyang Song and Ruigang Bai</i>	China
<b>B3983</b>	<b>Fundamental Study on Accelerated pH Neutralization and CO2 Capturing Behavior of Muds Treated with Stabilizers</b> <i>Su Myat Mon, Kimitoshi Hayano and Hiromoto Yamauchi</i>	Japan
<b>E4437</b>	<b>Microstructural Characterization of Black Cotton Soil Stabilized with Agricultural Waste Materials</b> <i>Ankur Abhishek, Anasua GuhaRay and Toshiro Hata</i>	Japan
<b>I2658</b>	<b>Purification of Selenium Contaminated Soils using the Selenate Reducing Bacterium <i>Stutzerimonas stutzeri</i> NT-I</b> <i>Osamu Otsuka and Mitsuo Yamashita</i>	Japan
<b>X6460</b>	<b>Shear Properties of Clinker Ash and Construction Generated Soil Mixtures</b> <i>Ryota Tagi, Norimasa Yoshimoto, Akifumi Nakashita and Naoki Ohmoto</i>	Japan
<b>R7155</b>	<b>Swelling and Impervious Performance of Bentonite Mixed Soil using Dehydrated Cake</b> <i>Sota Terano, Kenichi Sato, Takuro Fujikawa, Chikashi Koga, Yuji Inamoto, Masayuki Mizuno, Yasunori Arai and Tsutomu Saito</i>	Japan
<b>I7187</b>	<b>The Durability of Cement-Treated Clay Granite Powder and Slag-Treated Clay Granite Powder Composites under Seawater Exposure</b> <i>Joyce Nakayenga, Nozomi Omaki and Toshiro Hata</i>	Japan
<b>C7415</b>	<b>Applicability and Effectiveness of Sheet-Type Sensors in Locating the Slip Failure During Seepage Through Embankments</b> <i>Ryota Araki, Ryohei Ishikura, Noriyuki Yasufuku, Adel Alowaisy, Takahiro Sakon and Masutugu Uematsu</i>	Japan
<b>P6995</b>	<b>Evaluation of Physical Properties and Time-Series Prediction of Long-Term Durability for Improved Ground by Ultrafine Particle Grouting Materials</b> <i>Sudip Shakya and Shinya Inazumi</i>	Japan
<b>V1788</b>	<b>Experimental Consideration on the Effect of Different Soil Types on Soil Moisture Dependence on Evaporation Efficiency in Unsaturated Sandy Soil</b> <i>Yuta Jikuya, Kazunari Sako, Shinichi Ito and Oyama Henrique Seiji</i>	Japan
<b>F6475</b>	<b>Identification of 3D Landslide Displacement in the Outer Himalayas from Temporal High-Resolution Digital Surface Models Obtained using Terrestrial Laser Scans</b> <i>Ashok Anand, Chetan Gaur and Alok Bhardwaj</i>	India
<b>T6985</b>	<b>Quantitative Detection of Ground Surface Changes due to Slope Failure Using ALOS-2/PALSAR-2 Data</b> <i>Xuechen Wang, Hiroyuki Honda, Ibrahim Djameluddin, Hisatoshi Taniguchi and Yasuhiro Mitani</i>	Japan



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Paper ID	Title, Authors	Country
K1356	<b>Evaluation of the Bearing Capacity of Scoured Bridge Foundations using Aluminum Rod Ground Model Tests</b> <i>Hirano Moeka, Sasaki Yuna and Nishioka Hidetoshi</i>	Japan
19662	<b>Comparative Study of Evaluations of Bearing Capacity using Conventional Method and Finite Element Method</b> <i>Suman Manandhar, Sunny Karmacharya, Panich Vootripruex and Salisa Chaiyaput</i>	Japan
U1854	<b>Evaluation of the Erosion Control Performance and Vegetation of Natural Vegetation Recovery Promotion Type Mat Incorporated with Soil Algae (BSC Mat)</b> <i>Nobuyuki Kohno, Aki Matsumoto, Mineto Tomisaka, Tetsushi Ozeki and Kohei Araki</i>	Japan
18495	<b>Transient Simulation of Ground Source Heat Pump in Tropical Region Considering Groundwater Flow</b> <i>Arif Widiatmojo and Youhei Uchida</i>	Japan
R9061	<b>Effects of Climate Change on Landslide Slope Stability and Case Studies</b> <i>Shiro Ota, Masafumi Okawara, Nobuo Sakakibara and TakaMasa Yamaji</i>	Japan
W3315	<b>Evaluation Case of Characteristics for Improved Soil by Elastic Wave Velocity Test</b> <i>Takaaki Arika</i>	Japan
A5665	<b>A Case Study of Multi-Point Temperature Logging for Effective Groundwater Drainage in High Embankment</b> <i>Masanori Murai, Masaya Kawata, Yuta Ichikawa and Atsuo Takeuchi</i>	Japan
K8098	<b>Proposed Classification of Degradable Muddy Rocks Using Physical and Chemical Properties</b> <i>Koji Yamashita, Xiangyu Wang and Noriyuki Yasufuku</i>	Japan
E9550	<b>Influence of Nano Clay on Microstructure and Mechanical Properties of Fiber Reinforced Cement Mortar at Elevated Temperature</b> <i>Kiran. S, Sadath Ali Khan Zai, Mallikarjun. A Indi and Amruth. R. Naik</i>	India
D2413	<b>Effect of Microbial Strains through Triaxial Test on Bio-treated Granular Soil</b> <i>Yu-Syuan Jhuo, Pin-Hsiu Liu, Chang-Ping Yu and Louis Ge</i>	Taiwan
M6686	<b>Evaluation of Landslide Triggering Mechanism during Rainfall in Slopes Containing Vertical Cracks</b> <i>Muhammad N. Hidayat, Hemanta Hazarika, Takashi Fujishiro, Masanori Murai, Suman Manandhar, Yan Liu, Yasuhide Fukumoto and Haruichi Kanaya</i>	Japan

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Paper ID	Title, Authors	Country
H1265	<b>Influence of Initial Static Shear Stress on the Dynamic Response of Embedded Cantilever Retaining Wall with Saturated Backfill</b> <i>Anurag Sahare, GyuChan Choi and Kyohei Ueda</i>	Japan
L7856	<b>A Plasticity Model of Binary Mixtures for Liquefaction Simulation Considering the Equivalent Granular Void Ratio</b> <i>Fu-Hsuan Yeh, Yi-Qian Lu and Louis Ge</i>	Taiwan
H5641	<b>Utilization of AI-based Diagnostic Imaging for Advanced and Efficient Tunnel Maintenance</b> <i>Motoki Sato, Nobusuke Hasegawa, Hiroki Ohtsuka and Erika Kukisawa</i>	Japan
I9158	<b>Characteristics of Soft Soil Stabilization with Bacillus Subtilis Bacteria on Unconfined Compressive Strength and Shear Strength of Soils</b> <i>Rokhman, Tri Harianto, Achmad Bakri Muhiddin and Ardy Arsyad</i>	Indonesia
K6658	<b>Recycled Sands from Demolition Wastes as a Natural Sand Substitute Material in Pavement Construction</b> <i>Yunxin Xue, Arul Arulrajah, Suksun Horpibulsuk, Jian Chu and Guillermo Narsilio</i>	Australia
O5497	<b>Strength Behaviors of PP Fiber-Reinforced Soil</b> <i>Yu Syuan Jhuo , Jia Quan Lin , Shih Hao Cheng , Chih Jung Chien and Louis Ge</i>	Taiwan
R2619	<b>Compaction Characteristics of Crushed Solidified Soil</b> <i>Atsuko Sato, Hirochika Hayashi and Gen Chujo</i>	Japan
R7547	<b>Study on the Erosion Resistance and Water Stability of Solidification of the Yellow River Sediment by Biomineralization Technology</b> <i>Yuke Wang, Zhenhai Wang, Hao Chen, Tiancai Cao and Yuyuan Chen</i>	China
L2064	<b>Comparative Study on Effect of Embedment Depth and Reinforcement Spacing on the Performance of Square Footing Embedded in Geogrid Reinforced Flyash Beds under Cyclic Loading</b> <i>Bindiya K and Muddaraju H C</i>	India
B7990	<b>Simultaneous Removal and Filling Method for Earth Retaining Members Contributing to SDGs</b> <i>Yasuhiko Nishi and Hiroaki Watanabe</i>	Japan
D1011	<b>Consolidated and Undrained Triaxial Compression Characteristics of Slag-Clay Mixtures with Wide Unconfining Compression Strengths</b> <i>Masaaki Katagiri, Seiya Yamazaki, Yuka Kakihara, Akio Takada and Yoshiaki Kikuchi</i>	Japan
F5725	<b>Multiscale Properties of Fly Ash Modified Recycled Fine Aggregate Mortar for Stone Masonry</b> <i>Shiwei Hou, Jinzhao Hou, Zhanwen Lai and Junyan Han</i>	China



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Paper ID	Title, Authors	Country
<b>K3044</b>	<b>Effect of Lead and Zinc on Hydraulic Conductivity and Swelling Characteristics of Nanoclay Amended Bentonite</b> <i>Riya Roy and Anil Kumar Mishra</i>	India
<b>W9101</b>	<b>Utilization of Waste Material for Stabilization of Lateritic Soil</b> <i>Salisa Chaiyaput, Jiratchaya ayawann, Suman Manandhar and Songklod Sae-Ueng</i>	Thailand
<b>N4719</b>	<b>Evaluation of Mechanical Properties of Rice Resin as a Sustainable Ground Improvement Material</b> <i>Rikuto Kobayashi, Hemanta Hazarika and Masanori Murai</i>	Japan
<b>N6830</b>	<b>Development and Geographical Evaluation of Slope Failure Risk Index due to Changes of Soil Moisture</b> <i>Honoka Asada and Kohei Araki</i>	Japan
<b>E9087</b>	<b>Prediction of the Soil Surface Displacement Behavior in Bangkok, Thailand</b> <i>Sutasinee Intui, Shinya Inazumi and Noppanut Kosinanondh</i>	Thailand
<b>B9222</b>	<b>Experimental Study on Accumulated Deformation Characteristic of Yellow River Silt under Long-Term Dynamic Loading</b> <i>Yuyuan Chen, Hemanta Hazarika and Yuke Wang</i>	Japan





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