



CREST 2023

**CONFERENCE GUIDEBOOK
AND
PROGRAM**



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

TABLE OF CONTENTS

1	PROGRAM AT A GLANCE.....	1
2	INFORMATION ON VARIOUS VENUES FOR TECHNICAL PROGRAM	4
	2.1 Details of Venues for Technical Program.....	6
3	SOCIAL PROGRAMS.....	13
	3.1 Welcome Reception	13
	3.2 Conference Banquet.....	14
4	VENUE FOR TECHNICAL EXHIBITION.....	15
5	DETAILS OF WORKSHOPS	16
6	INFORMATION ON TECHNICAL TOUR	21
7	REGISTRATION INFORMATION	22
8	DETAILED PROGRAM.....	23
9	GUIDE TO SPEAKERS & SESSION CHAIRS.....	46
	9.1 Guide to Speakers.....	46
	9.2 Guide to Session Chairs.....	46
10	GUIDELINES TO POSTER PRESENTERS.....	47
11	ADDITIONAL INFORMATION ON AWARDS	48

Lists of Figures

Fig. 1 Main venue and the access map	4
Fig. 2 Venue for technical program and exhibition, 2F	5
Fig. 3 Main hall, 3F.....	5
Fig. 4 Venue for technical program, 5F.....	6
Fig. 5 Details of Rooms 201 & 202, 2F.....	8
Fig. 6 Details of main hall, 3F.....	9
Fig. 7 Details of Rooms 502 & 503, 5F.....	10
Fig. 8 Location of WS-3, IMI, Ito Campus, Kyushu University	11
Fig. 9 IMI, Ito Campus, Kyushu University	11
Fig. 10 Location of WS-5, Inamori Center, Ito Campus, Kyushu University	12
Fig. 11 Inamori Center, Ito Campus, Kyushu University	12
Fig. 12 Access to Rooftop Garden Bagus, Nakasu.....	13
Fig. 13 Access to Nishitetsu Grand Hotel, Tenjin	14
Fig. 14 Details of technical exhibition.....	15
Fig. 15 Image of the registration desk.....	22
Fig. 16 Display panel for poster presentation	47

Lists of Tables

Table 1. Details of venues for technical program.....	6
Table 2. Details of venues for pre-conference workshops.....	7
Table 3. Details of welcome reception.....	13
Table 4. Details of conference banquet.....	14
Table 5. Information on technical tour	21
Table 6. Details of registration.....	22
Table 7. Lecture categories and presentation time	46
Table 8. Details of poster presentation.....	47

1 PROGRAM AT A GLANCE

Time	November 20, 2023 (Monday)						
9:00-13:00							
13:00-14:00							
14:00-16:00	Registration Technical Tour	On Demand Session Keynote Lecture & Young Researcher Special Lectures Main venue, 5F Room 503	Workshop 1 Sustainability and Innovation in Geotechnical Engineering Multipurpose Hall of main venue, 2F Room 201	Workshop 2 Practices for Sustainable and Resilient Geotechnology Multipurpose Hall of main venue, 2F Room 202	Workshop 3 Slope Disaster Prevention in the Digital Era Institute of Mathematics for Industry (IMI) Kyushu University	Workshop 4 Scientific Writing and Publishing Main venue, 5F Room 502	Workshop 5 International Youth Exchange on Interdisciplinary Engagement Inamori Center Kyushu University
16:00-16:30							
16:30-17:00							
17:00-17:30							
18:00-19:30	Welcome Reception (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 1 (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 1	Young Researcher Special Lecture 2	Young Researcher Special Lecture 3 & 4
	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)				

2 INFORMATION ON VARIOUS VENUES FOR TECHNICAL PROGRAM

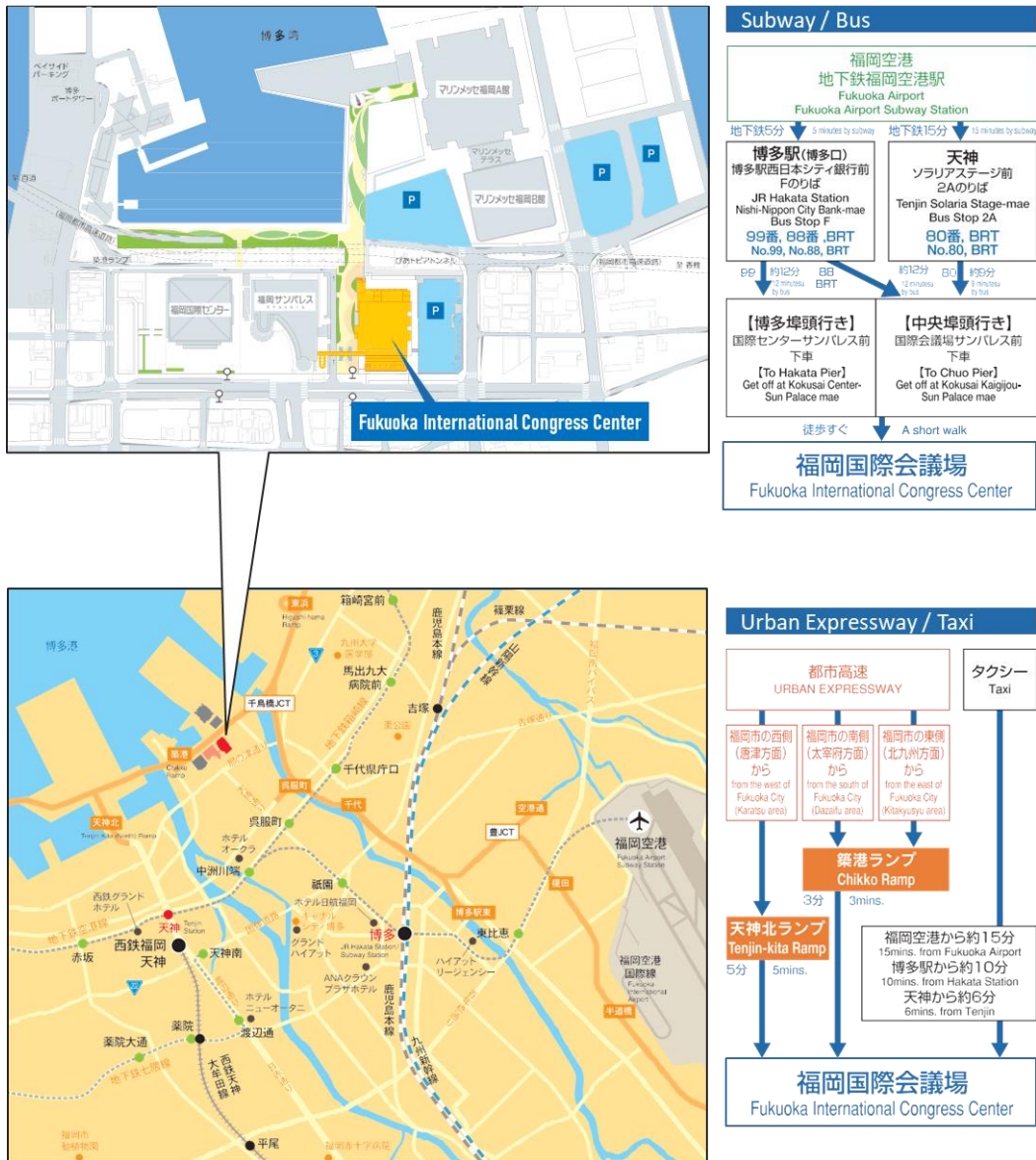


Fig. 1 Main venue and the access map



Lobby



Multipurpose Hall

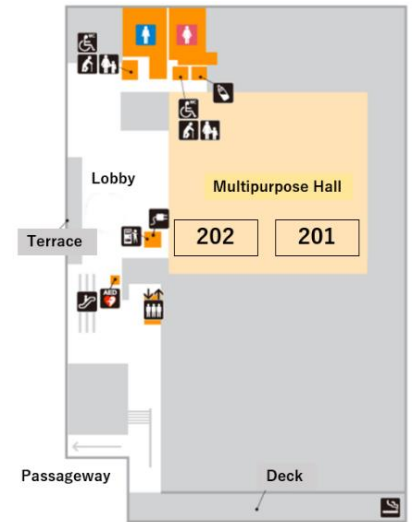


Fig. 2 Venue for technical program and exhibition, 2F



Lobby



Main Hall

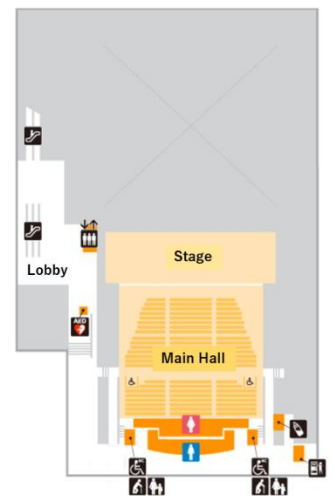


Fig. 3 Main hall, 3F



Fig. 4 Venue for technical program, 5F

2.1 Details of Venues for Technical Program

Please Refer to **Table 1** for details of the various technical program venues, and **Table 2** for details of pre-conference workshop venue.

Table 1. Details of venues for technical program

Plenary Lectures/Keynote Lectures/Bright Spark Lectures	3F, Main Hall
Theme Lectures/Parallel Sessions 1, 6 & 11	3F, Main Hall
Theme Lectures/Parallel Sessions 2, 7 & 12	2F, Room 201 Multipurpose Hall
Theme Lectures/Parallel Sessions 3, 8 & 13	2F, Room 202 Multipurpose Hall
Theme Lectures/Parallel Sessions 4, 9 & 14	5F, Room 502
Theme Lectures/Parallel Sessions 5, 10 & 15	5F, Room 503
Young Researcher Special Lecture 1	2F, Room 202 Multipurpose Hall
Young Researcher Special Lecture 2	5F, Room 502
Young Researcher Special Lectures 3 & 4	5F, Room 503
Technical Exhibitions	2F, Technical Exhibition Hall

Table 2. Details of venues for pre-conference workshops

Workshop CREST 2023 (WS-1)	2F, Room 201, Multipurpose Hall
Workshop CREST 2023 (WS-2)	2F, Room 202, Multipurpose Hall
Workshop CREST 2023 (WS-3)	4F, D-413, West Bld. I Institute of Mathematics for Industry (IMI) Ito Campus, Kyushu University
Workshop CREST 2023 (WS-4)	5F, Room 502
Workshop CREST 2023 (WS-5)	1F, Inamori Center Ito Campus, Kyushu University

***For those attending workshop at Kyushu University, after the workshop, pick up bus will be waiting for you near the workshop venues (the rotary in front of the Faculty of Science, Bldg. I) at Kyushu University. Workshop attendees are kindly requested to use this bus to go to the welcome reception venue and also for drop off at the Kyudai-Gakkentoshi Station.**

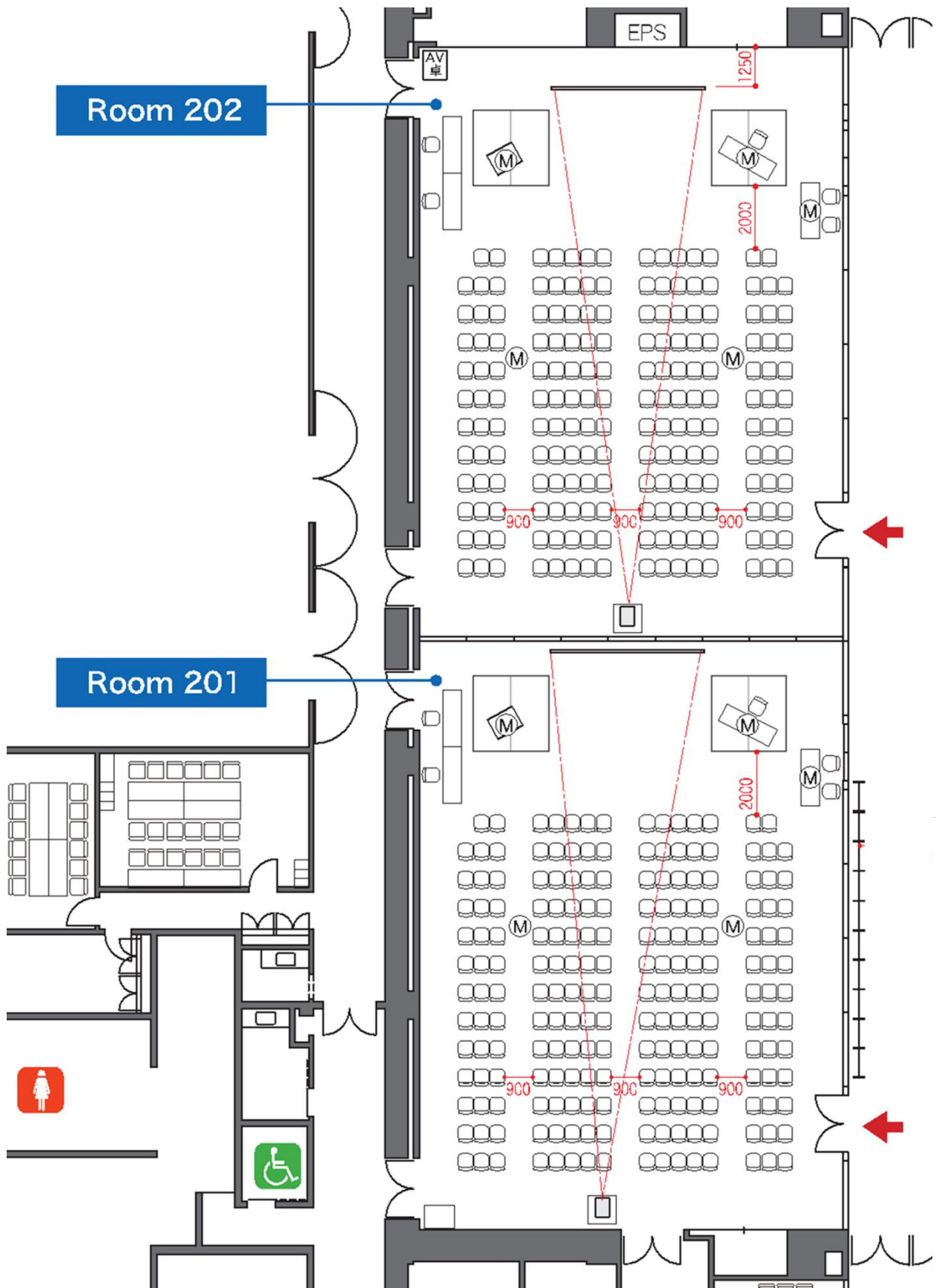


Fig. 5 Details of Rooms 201 & 202, 2F

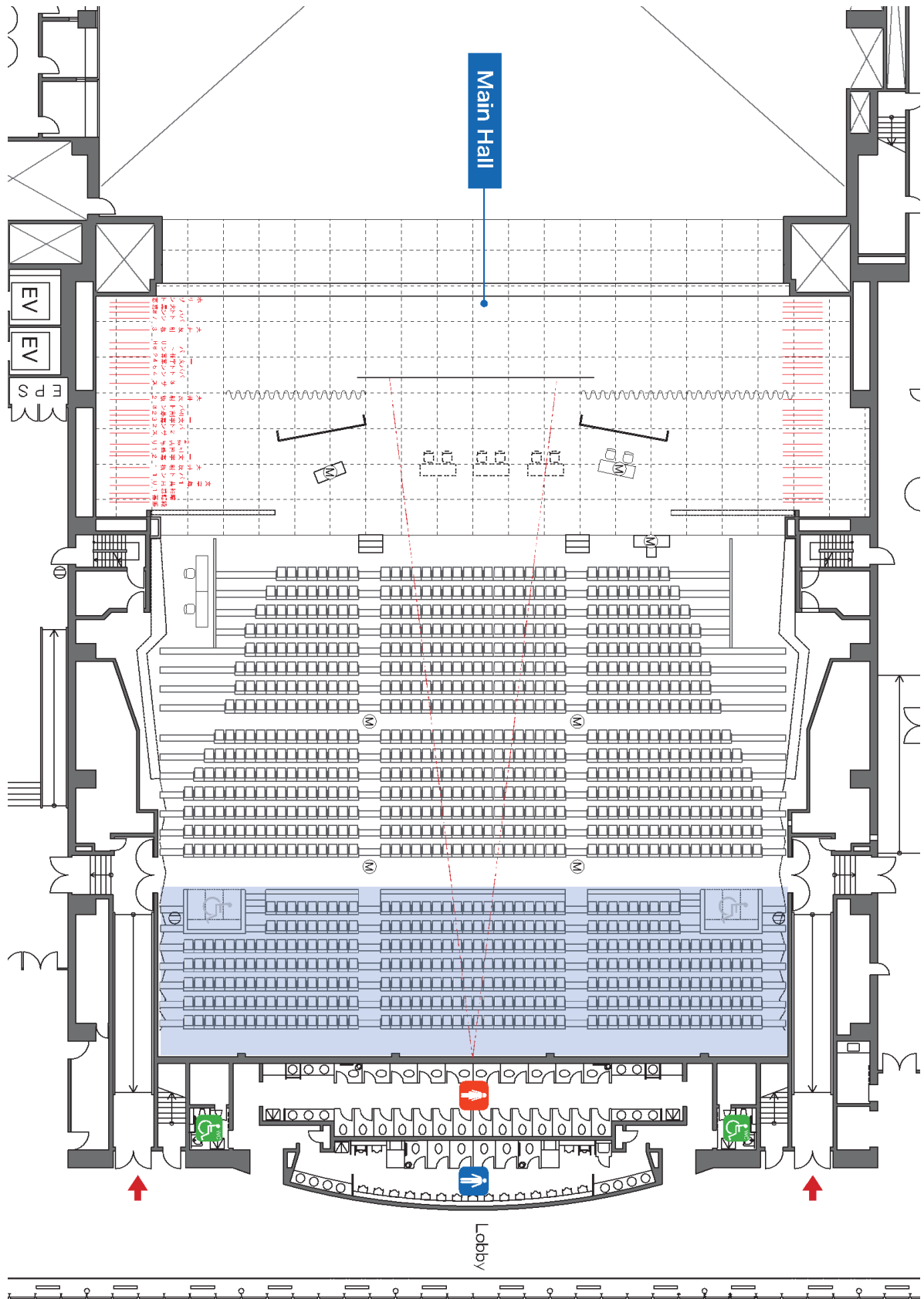


Fig. 6 Details of main hall, 3F

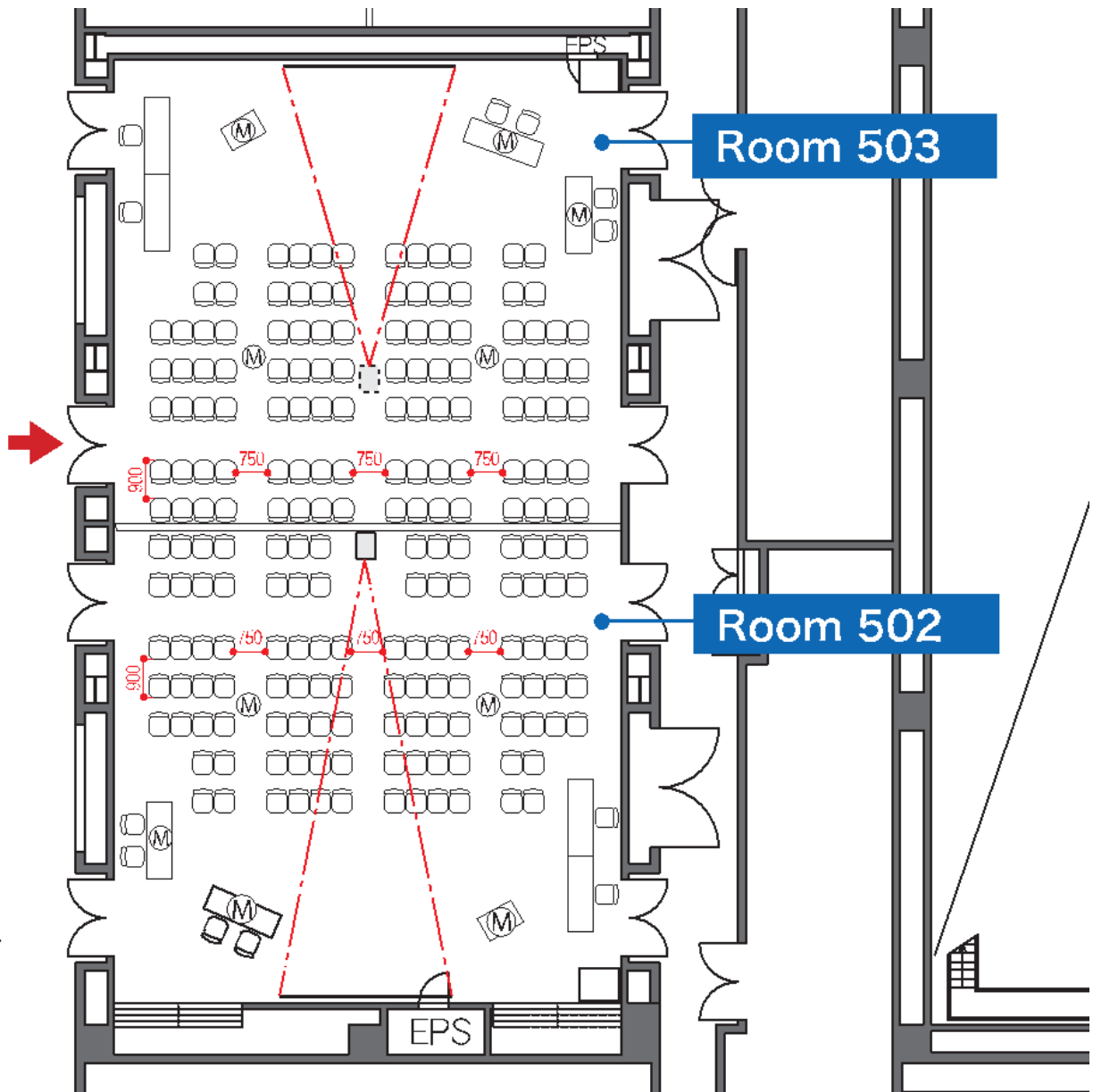


Fig. 7 Details of Rooms 502 & 503, 5F

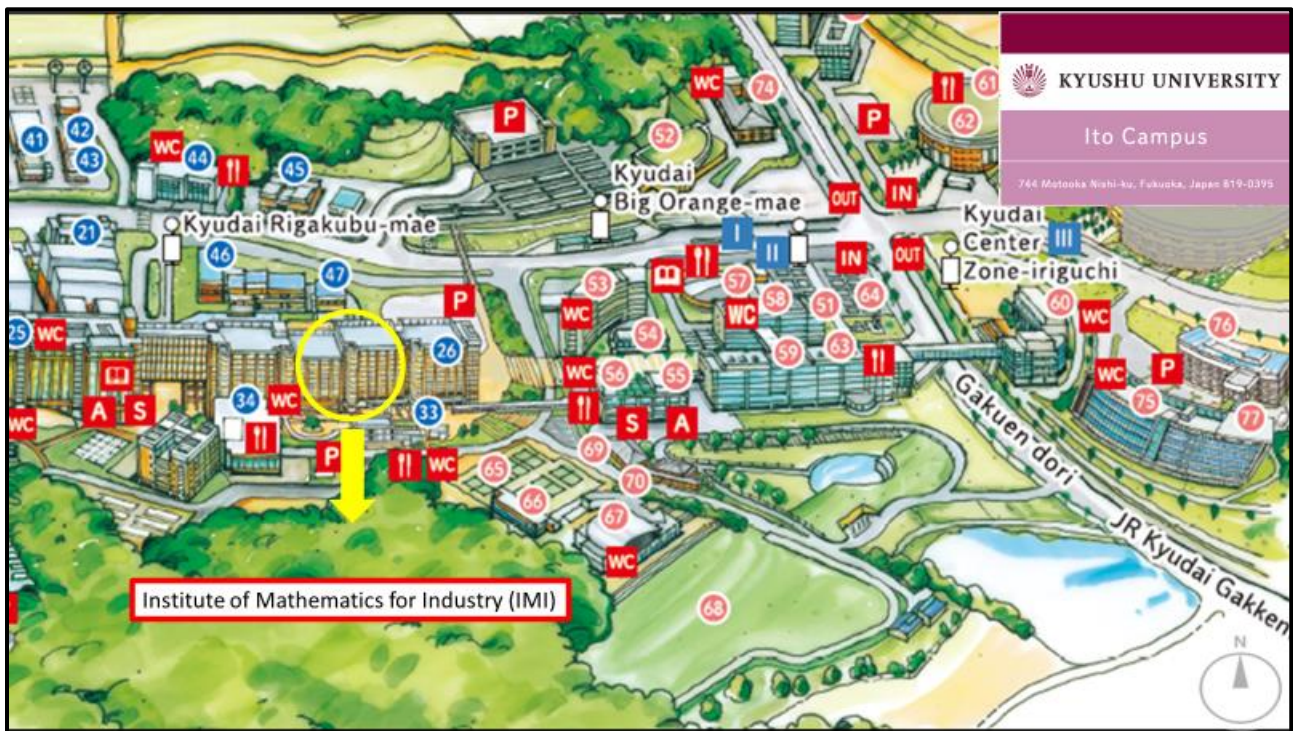


Fig. 8 Location of WS-3, IMI, Ito Campus, Kyushu University



Fig. 9 IMI, Ito Campus, Kyushu University



Fig. 10 Location of WS-5, Inamori Center, Ito Campus, Kyushu University

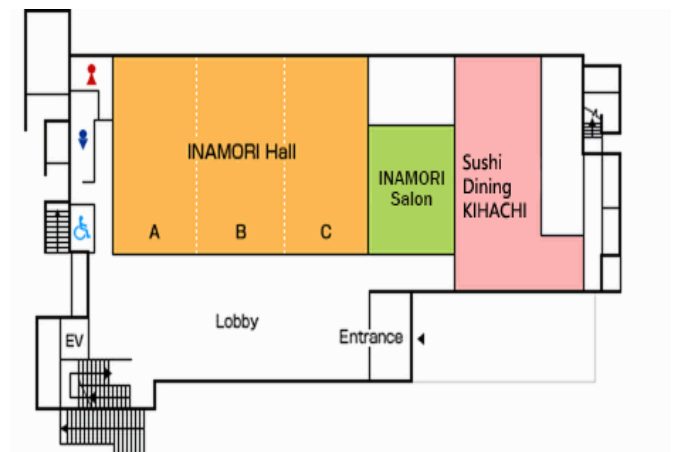


Fig. 11 Inamori Center, Ito Campus, Kyushu University

3 SOCIAL PROGRAMS

3.1 Welcome Reception

Please refer to the following **Table 3** and **Fig. 12** for accessing welcome reception venue.

Table 3. Details of welcome reception

Date	November 20 (Monday)	
Time	18:00 – 19:30	
Venue	Rooftop Garden Bagus, Nakasu	
Location	Prato Nakasu Bldg., 4-6-12 Nakasu, Hakata-ku, Fukuoka	
Link	https://www.bagus-99.com/es/	
By Walk	25 minutes from Fukuoka International Congress Center	
By Taxi	10 minutes from Fukuoka International Congress Center	

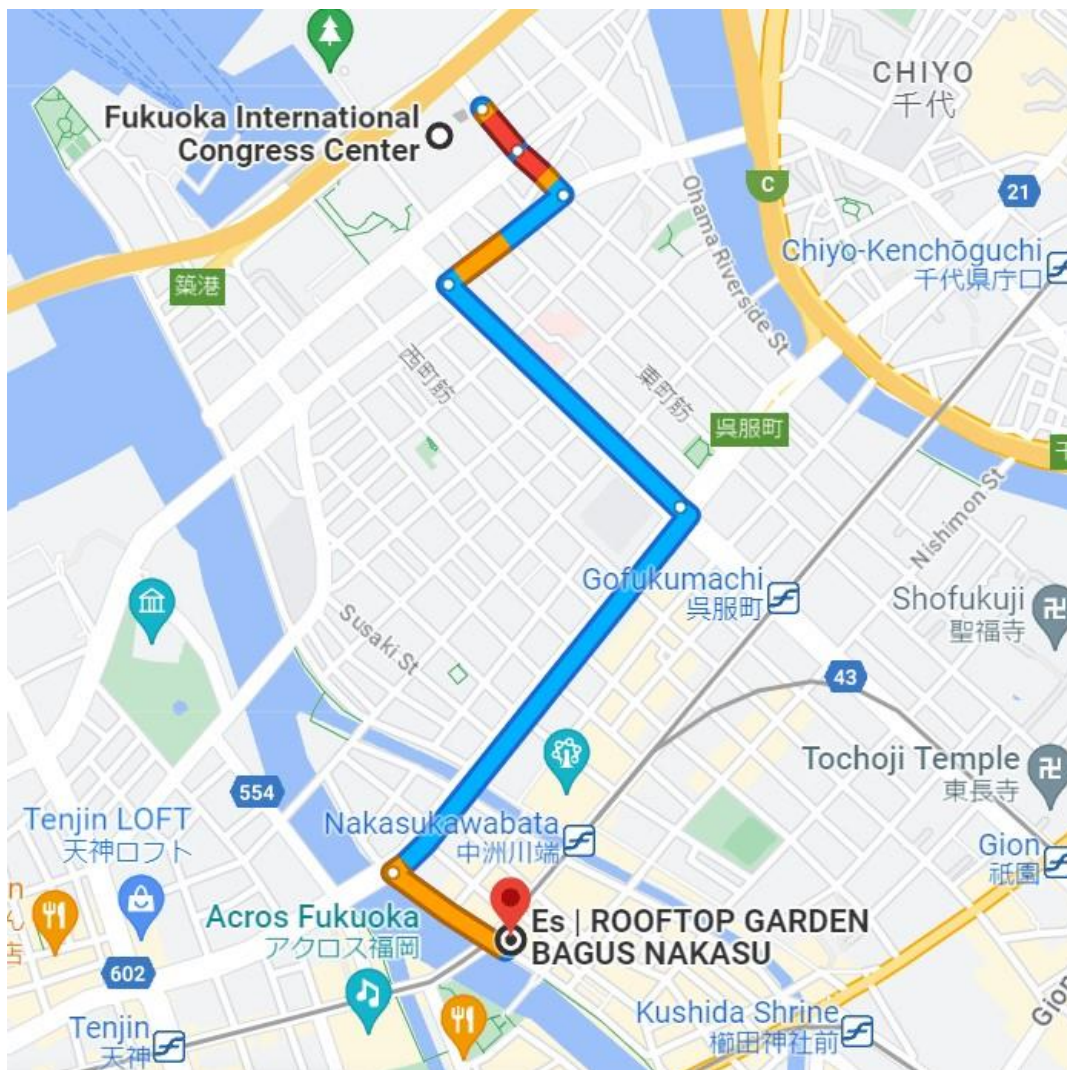


Fig. 12 Access to Rooftop Garden Bagus, Nakasu

3.2 Conference Banquet

Please refer to the following **Table 4** and **Fig. 13** for accessing conference banquet venue.

Table 4. Details of conference banquet

Date	November 22 (Wednesday)	
Time	18:30 – 21:00	
Venue	PLASIR, 2F, Nishitetsu Grand Hotel, Tenjin	
Location	2-6-60, Daimyo, Chuo-Ku, Fukuoka	
Link	https://nnr-h.com/grandhotel/	
By Walk	30 minutes from Fukuoka International Congress Center	
By Taxi	10 minutes from Fukuoka International Congress Center	

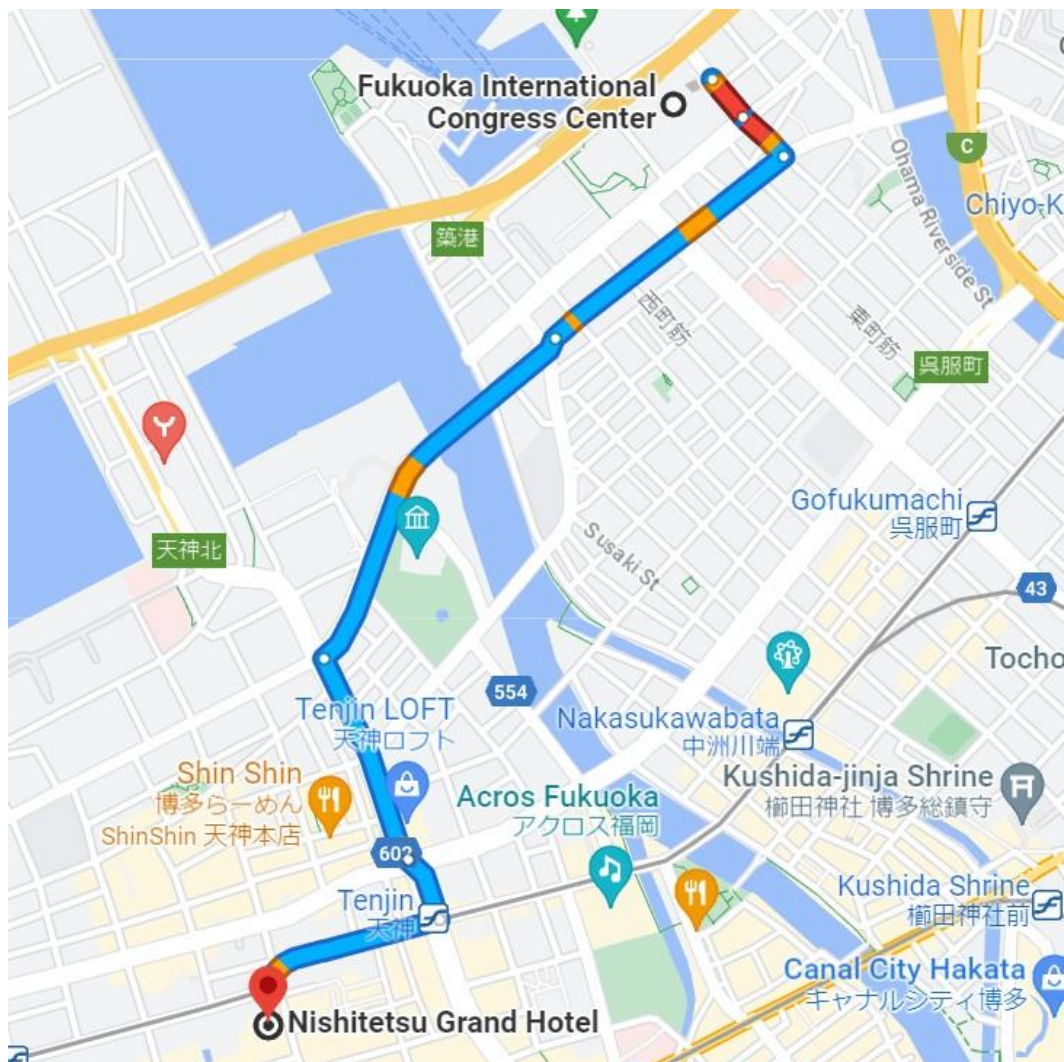


Fig. 13 Access to Nishitetsu Grand Hotel, Tenjin

4 VENUE FOR TECHNICAL EXHIBITION

Technical exhibition will be held in the multipurpose hall situated on the 2nd floor of the main venue.

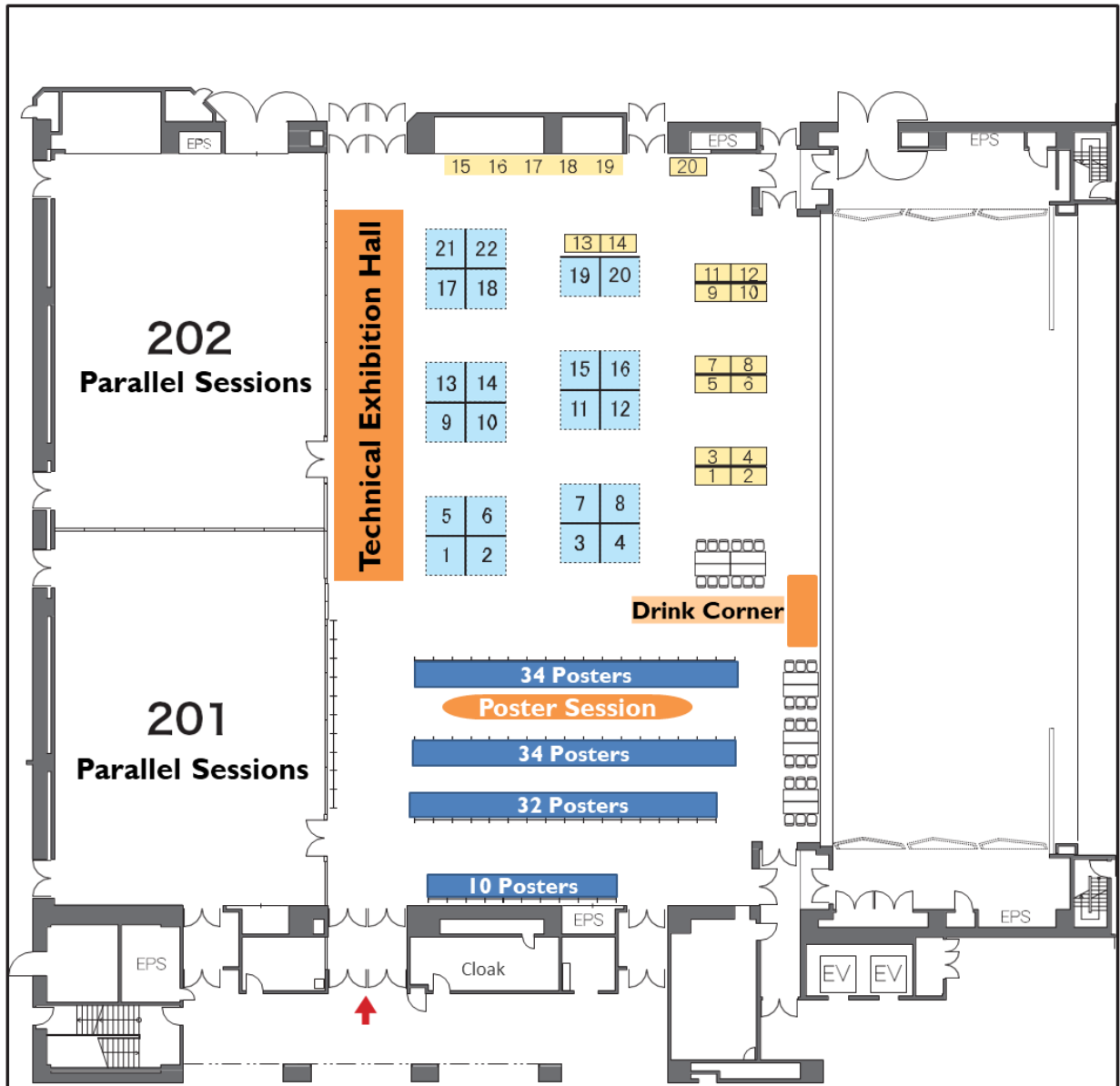


Fig. 14 Details of technical exhibition

5 DETAILS OF WORKSHOPS



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



Pre-registration site. <https://forms.gle/cciLDn8bM7D97CSdA>

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

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Local Resilience Research Institute (LRRRI)
Research Society of Wood Utilization in Fukui
Tobishima Corporation



福井県木材利用研究会



WS-2

WORKSHOP CREST2023

"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 starts with a keynote speech by Kazuya Yasuhara, Professor Emeritus of Ibaraki University, Japan. Thereafter, three organizations involved in the implementation of mitigation and adaptation measures will introduce their activities.

PROGRAM



Prof. Yasuhara



Dr. Murata



Prof. Yoshida

14:00 - 14:05 Opening Remarks:

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

14:05 - 15:05 Keynote Speech:

"Geotechnical Contribution to Climate 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:

"LRRRI's Activities for Climate Sustainability"

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

This presentation provides an overview of LRRRI'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
2nd Floor,
Fukuoka International
Congress Center

SUSTAINABLE
DEVELOPMENT
GOALS

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



11 SUSTAINABLE CITIES AND COMMUNITIES



15 LIFE ON LAND



CREST-2023

Pre-registration site. <https://forms.gle/oqUnkEcT8YR5CJB7>

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

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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. Tokuhisa



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 Tokuhisa, 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
Kyusyu University**

**SUSTAINABLE
DEVELOPMENT
GOALS**

11 SUSTAINABLE CITIES AND COMMUNITIES



13 CLIMATE ACTION



17 PARTNERSHIPS FOR THE GOALS



CREST-2023

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



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



info@ic-crest.com





WS-4

WORKSHOP CREST2023

"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



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

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ORGANIZERS

Youth Endeavour Committee of CREST 2023

WS-5

WORKSHOP CREST2023

“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 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

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



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6 INFORMATION ON TECHNICAL TOUR

Details on the technical tour are given below.

Table 5. Information on technical tour

Date	November 20 (Monday)
Time of Gathering	8:30
Place of Gathering	Entrance of Fukuoka International Congress Center
Duration of Tour	9:00-17:00

***Please be punctual to avoid delays for the site visit.**

***Please refer to Technical Tour Guidebook.**

***Lunch will be provided for the attendees.**

7 REGISTRATION INFORMATION

Following are the pre-conference registration details to avoid congestion on the opening day. Please make sure to complete your registration.

Table 6. Details of registration

Location	2F, Fukuoka International Congress Center
Service Hours	13:00 – 17:30, November 20 (Monday)
	9:00 – 18:30, November 21 (Tuesday)
	8:30 – 17:00, November 22 (Wednesday)

Please ensure that you collect your *Conference Tool Kits* and *Name Tag*.

* Participants attending the technical tour have the option to register inside the bus.

** Attendees of the workshops can register at the reception desk located in the respective workshop venues.



Fig. 15 Image of the registration desk

8 DETAILED PROGRAM

November 20, 2023 (Monday)

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

On-Demand Sessions

Time: 14:30 - 17:00, November 20, 2023 (Monday)

Venue: **Room 503**

Keynote Lecture 16



Biogeotechnics for Sustainable Geotechnical Innovation

Prof. Jason DeJong
University of California Davis

USA

Young Researcher Special Lecture 5

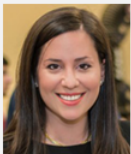


Role of Silica-Based Admixtures for Effective Stabilization of Problematic Soils

Dr. Nripojyoti Biswas
Texas A&M University

USA

Young Researcher Special Lecture 6



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/>


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 <i>Prof. Ikuo Towhata</i> Specially Appointed Professor, Kanto Gakuin University	Japan
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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 <i>Prof. Nicola Moraci</i> University of Reggio Calabria	Italy
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Keynote Lecture 2

11:05 - 11:30		Impact of Climate Change on Landslide Susceptibility and Landslide Hazard Resilience in Central Taiwan <i>Prof. Keh-Jian Shou</i> National Chung-Hsing University	Taiwan
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11:30 - 11:45	Coffee Break		
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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 <i>Prof. Susumu Yasuda</i> Tokyo Denki University	Japan
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Keynote Lecture 4

12:10 - 12:35		Chain Disasters in Geotechnical Engineering Seen in the 2011 Great East Japan Disaster and Strategic Response <i>Prof. Motoki Kazama</i> Tohoku University	Japan
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12:35 - 13:30	Lunch Break		
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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		Sustainable Ground Improvement Practices and Comprehensive Assessments for Problematic Expansive Soils <i>Prof. Anand Jagadeesh Puppala</i> Texas A&M University	USA
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Keynote Lecture 6

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

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

14:45 - 15:10		Geotechnical Seismic Isolation using Recycled Rubber Soil Mixtures: Past Achievements and Future Needs and Challenges <i>Dr. Hing-Ho Tsang</i> Swinburne University of Technology	Australia
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15:10 - 15:30

Coffee Break


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

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

Time	Paper ID	Title, Authors	Country
15:50 - 16:00	Y1548	Non-Coaxial Behaviour of Clay Subjected to Cyclic Simple Shear Loading <i>Yuwei Zhong, Haiying Fu, Yanyan Zhao, Jing Ye and Dong Wu</i>	China
16:00 - 16:10	V2073	The Effect of Ground Condition on Seismic Amplification in the 2021 Mamuju Earthquake Sulawesi <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	Integrated Water Resources Management Considering Geologic Features under Climate Change Development of an Analytical Tool for Langat River Basin in Malaysia <i>Mitsuru Yabe, Hiroki Ohashi and Tadashi Yoshioka</i>	Japan
16:20 - 16:30	A7345	The Factor Analysis of Debris-Flow Vibrational Signals using Machine Learning Methods <i>Shu-Lin Chen, Yi-Min Huang and Chien-Chih Chen</i>	Taiwan
16:30 - 16:40	L2738	Infiltration Depth Prediction Model Considering Soil Properties and Rainfall Conditions for Aeolian Sand Subgrade <i>Xintong Song, Yaqi Zhang, Pengcheng Wang, Li Zhang and Peng Jing</i>	China
16:40 - 16:50	Y2129	Centrifugal Tilting Tests on Vertical Reinforcement of the Dry Masonry Retaining Wall <i>Kazuya Sano, Kazuya Itoh, Tsuyoshi Tanaka, Naoaki Suemasa, Takeharu Konami and Shingo Taniyama</i>	Japan
16:50 - 17:10	Coffee Break		


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

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

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		Gravel-Rubber Mixtures: Macro- and Micro-Scale Engineering Properties <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	Groundwater Control Measures for Deep Excavation of Bangkok MRT <i>Pastsakorn Kitiyodom, Woraphon Wiriyatharakij and Anucha Yamchoo</i>	Thailand

Parallel Session 4			
Time	Paper ID	Title, Authors	Country
16:00 - 16:10	V6692	Sustainable Stabilization of Reinforced Polymerized Subgrade under Cyclic Loading <i>Aneke Frank Ikechukwu</i>	South Africa
16:10 - 16:20	D1099	Multiphysics Numerical Modeling of Transient Transport of PFAS <i>Arvin Farid and Pierrette Iradukunda</i>	USA
16:20 - 16:30	E1760	Long-Term Drained Shear Properties of Steel Slags Mixed with Wood Chips <i>Tomotaka Yoshikawa, Yoshiaki Kikuchi and Lincoln W. Gathuka</i>	Japan
16:30 - 16:40	X4248	Management of Flood Debris: A Case History from Michigan, USA <i>Nazli Yesiller, Derek C. Manheim and James L. Hanson</i>	USA
16:40 - 16:50	A5796	Improvement of a Sabkha Soil Employing Waste Marble Powder <i>Mohamed A. Hammad, Yahia Mohamedzein and Mohamed Al-Aghbari</i>	Oman
16:50 - 17:10	Coffee Break		


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

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

17:10 - 17:30		Sustainability Slope Stabilization using Expanded Polystyrene-Ferrocement 8-Shaped Geomat <i>Prof. Fauziah Ahmad</i> Universiti Sains Malaysia	Malaysia
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Parallel Session 6 (TC 307 Special Session)

Time	Paper ID	Title, Authors	Country
17:30 - 17:40	K6455	Impact of Waste Tire Fibre on the Hydro-Mechanical Behavior of Black Cotton Soil Under Different Pore Fluids <i>N. Mahesh Babu and Anil Kumar Mishra</i>	India
17:40 - 17:50	D3296	Environmental Impact of Recycled Crushed Concrete and Aluminum Salt Slag as used in Civil Infrastructure Construction <i>Youli Lin, Farshid Maghool, Arul Arulrajah and Suksun Horpibulsuk</i>	Australia
17:50 - 18:00	T8292	Landslide Analysis using Geographic Information System (GIS) in South Tapanuli Regency <i>Ika Hastuty and Fauziah Ahmad</i>	Indonesia
18:00 - 18:10	K7278	Sustainable Handling of Soft Soils During the Design of Major Infrastructure Projects <i>Martin Tanderup, Michael Rosenlund Lodahl, Kristina Thomassen and Lars Bo Ibsen</i>	Denmark
18:10 - 18:20	H9778	Synthesis of Management Measures for Water Resource Sustainability and Resilient Society: A Case Study of Mae Klong Watershed through Four Decade Evidences <i>Charumas Meksumpun</i>	Thailand
18:20 - 18:30	U6555	Geotechnical and Leaching Characteristics of the Indian Raw Phosphogypsum <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		CEEF Technology for Sustainable Housing - Neo Insights and Foresights <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	Mechanical Behaviors of MICP Treated Binary Granular Materials Under One-Dimensional Consolidation <i>Yu-Syuan Jhuo, Yi-Qian Lu, Vhang-Ping Yu and Louis Ge</i>	Taiwan
17:40 - 17:50	A5340	Particle Morphology of Calcareous Sand and MICP-Treated Efficiency <i>Bo Wang, Zhiqiang Liu and Longwei Chen</i>	China

Parallel Session 7			
Time	Paper ID	Title, Authors	Country
17:50 - 18:00	W3454	Standards for Sustainable Geotechnical Construction: ASTM International Experience <i>James L. Hanson, Nazli Yesiller, Tuncer B. Edil</i>	USA
18:00 - 18:10	S9521	Diffusion Regularity of Permeable Polymer in Silt Fine Sand Affected by Various Parameters <i>Yuke Wang, Rui Jiang, Bowen Yu and Yuyuan Chen</i>	China
18:10 - 18:20	I4715	Contribution of Vetiver Grass Towards Slope Stability via Mechanical Root Reinforcement <i>Ujwalkumar D. Patil, Myeong-Ho Yeo, Else Demeulenaere, Daniel Mabagos and Surya Sarat Chandra Congress</i>	USA
18:20 - 18:30	J6082	Effect of Grain Size Distribution of Bed Materials on Destabilization of a River Pier due to Local Scour <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		Protein-Assisted Eco-Friendly Bio-Based Ground Improvement Technique <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	Experimental Study on Friction Capacity of Pile-Stabilized Soil Interface <i>Jiajin Zhou, Shile Zhou, Rihong Zhang, Jianlin Yu and Xiaonan Gong</i>	China
17:40 - 17:50	F1669	Stress-Strain Behavior of Geogrid Reinforced Steel Slag in Triaxial Test Condition <i>Sanjana Sarkar and Amarnath Hegde</i>	India
17:50 - 18:00	P2205	River-Basin Classification for Flood Risk Assessment in Indonesia <i>Adityawan Sigit and Morihiko Harada</i>	Japan
18:00 - 18:10	A3838	Regional Modelling of a Rainfall Induced Landslide in Idukki, Kerala by Incorporating Unsaturated Soil Properties: Case Study <i>Musaib Ahmad and Divya P. V.</i>	India
18:10 - 18:20	H7236	Effect of Coal Ash-Geogrid Interaction on Static and Dynamic Behavior of Ash-Filled MSE Walls <i>Sajan Malviya and Prishati Raychowdhury</i>	India
18:20 - 18:30	H3832	Sand Compaction Pile Method Utilizing Recycled Materials <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		Community Outreach Through Soft-Type Measures in the Wake of an Initial Disaster <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	K6716	Single Pile Behavior under Repeated Horizontal Loading <i>Yuka Sakoda, Atsushi Mohri, Yoshiaki Kikuchi, Shohei Noda, Tetsuo Okuno, Hirokazu Sugiyama and Kiyoshi Fukutake</i>	Japan
17:40 - 17:50	K3285	Case Study on Application of an Innovative Method of Pulling Out the Earth Retaining Pile with Less Ground Surface Settlement <i>Michiho Taoka, Yoshinori Fukubayashi, Hiroaki Watanabe and Yasuhiko Nishi</i>	Japan
17:50 - 18:00	M7092	Application of Non-Traditional Bio-Based Additives in the Stabilization of Foundation Soil Under Static and Cyclic Loadings <i>Avinash Kumar Singh and Jagdish Prasad Sahoo</i>	India
18:00 - 18:10	I8576	Assessment of Landslide Potential for a Large-Area Forested Slope <i>Chia-Cheng Fan, Wan-Ting Tseng, Kai-Min Yang and An-Ching Chung</i>	Taiwan
18:10 - 18:20	J4947	Evaluation of Sampling Efficiency and Uncertainty in 3D Spatially Variable Slope Stability Assessment using Conditional Simulation <i>Lihang Hu and Akihiro Takahashi</i>	Japan
18:20 - 18:30	R9349	Seepage Model Experiment of Earth Fill Dam due to Heavy Rains <i>Namihiko Tanaya, Shuichi Kuroda, Kentaro Kuribayashi and Tadashi Hara</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		Construction of Reinforced Soil Structure in a Lateritic Soil - A Case Study of the Expansion of the Runway at Mangalore International Airport <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	Q4088	Physical and Mechanical Characterisation of Recycled Concrete Aggregates (RCA) as Compacted Fill in Road Pavement <i>Chandanshree Nayak Suresh, Anitha Kumari S.D. and Sanjay Nimbalkar</i>	India
17:40 - 17:50	S6979	Cyclic Behaviour and Liquefaction Characteristics of Laponite-treated Sands <i>Gislaine P. Tobar and Rolando P. Orense</i>	New Zealand
17:50 - 18:00	T2636	Performance of Granular Pile Foundation System for Expansive Soil <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	A9520	Effect of Tire Derivative Particle Size on the Dynamic Properties and Liquefaction Behaviour of Sand-Tire Derivative Mixes <i>Adyasha Swayamsiddha Amanta and Satyanarayana Murthy Dasaka</i>	India
18:10 - 18:20	G3695	Drought and Management Approach for Sustainability of Tropical Reservoir Ecosystem: A Case Study of Ubolratana Reservoir, the Most Productive Reservoir in Northeast Thailand <i>Jeeraya Muangsringam and Charumas Meksumpun</i>	Thailand
18:20 - 18:30	F2959	Educational Journeys: Student Perception of School Life in Disaster Recovery Contexts <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 <i>Prof. Kimio Takeya</i> Japan International Cooperation Agency & Tohoku University	Japan
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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 <i>Prof. Haruichi Kanaya</i> Kyushu University	Japan
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Keynote Lecture 10

09:25 - 09:50		The Soil Depth Estimation for Landslides Analysis by using Geographic Information and Satellite Images <i>Prof. Sangseom Jeong</i> Yonsei University	Korea
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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 <i>Prof. Kenji Daito</i> Daido University	Japan
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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		Smart Data-Driven Approach for Developing Resilient Society <i>Dr. Hemanta Doloj</i> The University of Melbourne	Australia
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Keynote Lecture 13

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

11:25 - 11:50		Extreme Rainfall Caused by Climate Change and Its Effects on Debris Flow Hazard in Taiwan <i>Prof. Meei-Ling Lin</i> National Taiwan University	Taiwan
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Keynote Lecture 15

11:50 - 12:15		Geotechnical Hazards in the 2023 Turkey-Syria Earthquake <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

Technical
Exhibition
Hall


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		Artificial Intelligence in Disaster Mitigation <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	U3961	A Study on the Use of Waste Plastic as Partial Replacement to Sand Fine Aggregate in Concrete <i>Vivek Sarella, Hari Krishna Padavala, Gunneswara Rao and Tippabhotla Durga</i>	India
14:30 - 14:40	A8334	A Modified Critical State Model and its Application in Haikou Red Clay <i>Xiaowen Wang, Bohan Wu, Kai Cui and Ran Yuan</i>	China
14:40 - 14:50	N5242	Utilization of Timber Pile as a Reinforcement for Loose Sandy Soil <i>Suyadi Suyadi and Tri Harianto</i>	Indonesia
14:50 - 15:05	Coffee Break		

Theme Lecture I2 / Parallel Session I2

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 I2

14:00-14:20		Earthquake Damage and an Attempt to Evaluate the Availability of Port Facilities by Displacement Survey <i>Dr. Eiji Kohama</i> Port and Airport Research Institute	Japan
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Parallel Session I2

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

Young Researcher Special Lecture I / Parallel Session I3

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		Finite Element Analysis of Slope Stability Considering Soil Strength Anisotropy <i>Dr. Yi He</i> Southwest Jiaotong University	China
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Parallel Session I3

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

Young Researcher Special Lecture 2 / 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 2

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

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

14:50 – 15:05

Coffee Break


Young Researcher Special Lectures 3 & 4 / 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 3

14:00 - 14:20		Temporal Variation-Based Nonlinear Velocity Profile Law for Debris Flows using Hierarchical Statistical Algorithm of 3D-SPH Simulation <i>Prof. Zheng Han</i> Central South University	China
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Young Researcher Special Lecture 4

14:20 - 14:40		Assessing the Hydro-Chemo-Mechanical Behavior of Marble Dust-Bentonite Mixes to be used as a Geomaterial <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	D5038	Visualization of Seepage Behavior in a Model Ground Around Sheet Pile Using μ-Focused X-Ray CT System <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	B2959	Laboratory Evaluation of Geocell Reinforcement Technology for Road Restoration <i>Shintaro Miyamoto and Yoshihisa Miyata</i>	Japan

Bright Spark Lecture 2

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

15:45 - 16:05	O5975	Centrifuge Modeling of Highway Embankment Improved by Hybrid Type Reinforcement <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: **Technical Exhibition Hall**

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

Poster Session

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

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

Venue: **Technical Exhibition Hall**

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

Poster Session

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

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

Venue: **Technical Exhibition Hall**

Paper ID	Title, Authors	Country
Y9136	Development of Ground Freezing Method using Natural Refrigerants and its Applications <i>Kosuke Maejima, Hiroshi Soma and Yuta Shioya</i>	Japan
R5838	Application of Groundwater Recharge for Subsidence Prevention <i>Hidehiko Hayashi, Akira Ishikawa and Nobuaki Kohsaka</i>	Japan
C4511	Efficient Construction of Groundwater Level Observation Holes for Monitoring of Slope Disasters <i>Yoshikazu Ochi and Sonoda Atsushi</i>	Japan
S4044	Estimation of Inundation Mitigation Potential due to Time Variability in Japan <i>Sora Maruta and Seiki Kawagoe</i>	Japan
G5929	An Investigation into Smart Integral Bridge Designs <i>Douglas G Morley, Yazan B Asia, Gopal SP Madabhushi, Indrasenan Thusyanthan and Dennis Sakufiwa</i>	UK
P4154	Observations and Analysis of Vertical One Dimension Rainfall Seepage Flow Phenomenon <i>Koichi Tsubogo, Kohei Araki, Yasushi Fukuda, Keiji Kuajima, Kosuke Katayama and Shunji Ue</i>	Japan
P5409	Predicting Hydro-Thermal Environment Characteristics in Underground Spaces of a Tumulus Mound <i>Mai Sawada, Mamoru Mimura and Sumire Tani</i>	Japan
N7444	Study on Compaction and Unconfined Compressive Strength characteristics of Magnesium Carbonate Mixed Soils <i>Navya Ann Eldho and Hailong Wang</i>	Japan
S9663	Technology to Reduce Environmental Impact of Jet Grouting Technology <i>Junichi Yamanobe, Toshiyuki Kamata, Kazutoshi Ishikawa, Toshiaki Jin, Yosuke Watanabe and Keisuke Ohkubo</i>	Japan
G5764	Experimental Study on the Bearing Capacities of Sheet Pile Foundation in Saturated Clay Ground <i>Xi Xiong, Jiayu Chen, Tatsunori Matsumoto and Yukihiko Ishihara</i>	Japan
S9946	An Approach for Evacuation Vulnerability Assessment with Consideration of Predicted Evacuation Time <i>Zishuang Han, Kohei Kawano, Ibrahim Djamaluddin, Takumi Sugahara, Hiroyuki Honda, Hisatoshi Taniguchi and Yasuhiro Mitani</i>	Japan
P1862	Development and Applicability Assessment of a Tunnel Face Monitoring System Against Tunnel Face Collapse <i>Ryohei Hase, Yasuji Mihara, Dohta Awaji, Rieko Hojo and Shiken Shimizu</i>	Japan

Poster Session

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

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

Venue: **Technical Exhibition Hall**

Paper ID	Title, Authors	Country
L8208	Development of an Advanced Landslide Simulation using Clustering Technology <i>Kazuo Matsuura and Yasuhide Fukumoto</i>	Japan
N4709	Development of Real-Time Measuring System of Tip Position with Deep Mixing Methods <i>Hong-Son Nguyen, Yuji Adachi, Minoru Yamada, Toshiaki Takaue, Masato Kobayashi, Moriyasu Takada and Shinya Inazumi</i>	Japan
M8936	Landslide Risk Prediction and Regional Dependence Evaluation Based on Disaster History Using Machine Learning and Deep Learning <i>Fudong Ren and Koichi Isobe</i>	Japan
Q3837	Numerical Simulations for Seismic Response of Laterally Loaded Pile Foundation <i>Tanmoy Barik and Babloo Chaudhary</i>	India
R2955	Response of Offshore Wind Turbine Foundation Subjected to Earthquakes, Sea Waves & Wind Waves: Numerical Simulations <i>Subodh Kumar, Babloo Chaudhary, Manu K. Sajan and Akarsh P. K</i>	India
G7471	Seismic Response Characteristics of Loess Slope in Seasonally Frozen Regions Using Shaking Table Test <i>Jinchang Chen, Ailan Che, Zhijian Wu and Lanmin Wang</i>	China
U1534	Seismic Responses of Rubble Mound Breakwater: Numerical Analyses <i>Akarsh P K, Babloo Chaudhary, Manu K Sajan and Subodh Kumar</i>	India
L5756	Stability Analysis of Rubble Mound Breakwaters under Tsunami Overflow <i>Manu K Sajan, Babloo Chaudhary, Akarsh P K and Subodh Kumar</i>	India
M8129	Experimental Study of Warm Permafrost Mechanical Property under Cyclic Load <i>Liwei Song, Junfang Liu, Xiaomin Liu and Xin Zhao</i>	China
X8004	A Decision Support Tool for the Sustainability Rating Index for the Maintenance of Low Volume Rural Roads in India <i>RajiReddy Myakala and S. Shankar</i>	India
X9759	Anisotropy of Pressure Generated by Water Absorption of Deformation-Constrained Granular Bentonite Specimens <i>Yuta Ichikawa, Hideo Komine and Shigeru Goto</i>	Japan
V9005	Estimating the Effects of Community Disaster Management Plan on Disaster Risk Reduction Literacy Using Propensity Score Analysis <i>Takumi Sugahara, Shinya Fujimoto, Hiroyuki Hounda, Hisatoshi Taniguchi, Tabihito Fujihara and Yasuhiro Mitani</i>	Japan

Poster Session

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

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

Venue: **Technical Exhibition Hall**

Paper ID	Title, Authors	Country
R5517	Evaluation of Liquefaction Strength Prediction Method for Low Improvement Ground Materials <i>Koji Yamamoto, Kenichi Sato, Takuro Fujikawa and Chikashi Koga</i>	Japan
S3585	Research on Methods for Determining and Understanding the Soundness of Retaining Walls using Image Analysis <i>Kenki Owada, Anurag Sahare, Kazuya Itoh and Naoaki Suemasa</i>	Japan
X6732	Application Example of a Volume Reduction System for Dredging Sludge by Screw Decanter Centrifuge <i>Mizuno Kenta and Matsumoto Kouji</i>	Japan
P4712	Development of Environment-Friendly Base Materials for Seaweed Beds using Recycled Materials and its Long-Term Monitoring <i>Kentaro Yamamoto, K. Fukuda, T. Negami, N. Mizoguchi, H. Hira and Y. Tsurunari</i>	Japan
R5059	Effect of Natural Pozzolans Inclusion on CBR Value of Dredged Soil Material <i>Komang Arya Utama and Tri Harianto</i>	Indonesia
D6842	Effect of Steam Curing on the Compressive Strength of Concrete with Blast Furnace Slag <i>Chunghao Wu, Kaohao Chang and Huang Hsing Pan</i>	Taiwan
B7920	Effect of Thermal Activation of Powders Obtained from Multi-recycled Concrete on the Performance of Cementitious Materials <i>Jeonghyun Kim and Haneol Jang</i>	Poland
B2111	Effects of Biomass Soil Mixtures on Dynamic Behavior <i>Tatsuya Yoshizaki, Taichi Hyodo, Taiyo Terasako, Shinya Uchida, Naoki Tatta, Hiroyuki Nagai and Yang Wu</i>	Japan
L6437	EPS as an Inclusion Material: An Instrumented Field Study on Retaining Wall <i>Dinesh Bishnoi, Vikas Patil and S.M. Dasaka</i>	India
P5317	Experimental Study on Mechanical Properties of Soft Clay Stabilized by Industrial By-Products <i>Jianlin Yu, Teng Wang, Jiajin Zhou, Rihong Zhang and Xiaonan Gong</i>	China
B6109	Experimental Study on Solidification/Stabilization of Phenol-Contaminated Soil by Geopolymer <i>Junfang Liu, Lin Liu, Xiangyang Song and Ruigang Bai</i>	China
B3983	Fundamental Study on Accelerated pH Neutralization and CO₂ Capturing Behavior of Muds Treated with Stabilizers <i>Su Myat Mon, Kimitoshi Hayano and Hiromoto Yamauchi</i>	Japan

Poster Session

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

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

Venue: **Technical Exhibition Hall**

Paper ID	Title, Authors	Country
E4437	Microstructural Characterization of Black Cotton Soil Stabilized with Agricultural Waste Materials <i>Ankur Abhishek, Anasua GuhaRay and Toshiro Hata</i>	Japan
I2658	Purification of Selenium Contaminated Soils using the Selenate Reducing Bacterium <i>Stutzerimonas stutzeri</i> NT-I <i>Osamu Otsuka and Mitsuo Yamashita</i>	Japan
X6460	Shear Properties of Clinker Ash and Construction Generated Soil Mixtures <i>Ryota Tagi, Norimasa Yoshimoto, Akifumi Nakashita and Naoki Ohmoto</i>	Japan
R7155	Swelling and Impervious Performance of Bentonite Mixed Soil using Dehydrated Cake <i>Sota Terano, Kenichi Sato, Takuro Fujikawa, Chikashi Koga, Yuji Inamoto, Masayuki Mizuno, Yasunori Arai and Tsutomu Saito</i>	Japan
I7187	The Durability of Cement-Treated Clay Granite Powder and Slag-Treated Clay Granite Powder Composites under Seawater Exposure <i>Joyce Nakayenga, Nozomi Omaki and Toshiro Hata</i>	Japan
C7415	Applicability and Effectiveness of Sheet-Type Sensors in Locating the Slip Failure During Seepage Through Embankments <i>Ryota Araki, Ryohei Ishikura, Noriyuki Yasufuku, Adel Alowaisy, Takahiro Sakon and Masutugu Uematsu</i>	Japan
P6995	Evaluation of Physical Properties and Time-Series Prediction of Long-Term Durability for Improved Ground by Ultrafine Particle Grouting Materials <i>Sudip Shakya and Shinya Inazumi</i>	Japan
VI788	Experimental Consideration on the Effect of Different Soil Types on Soil Moisture Dependence on Evaporation Efficiency in Unsaturated Sandy Soil <i>Yuta Jikuya, Kazunari Sako, Shinichi Ito and Oyama Henrique Seiji</i>	Japan
F6475	Identification of 3D Landslide Displacement in the Outer Himalayas from Temporal High-Resolution Digital Surface Models Obtained using Terrestrial Laser Scans <i>Ashok Anand, Chetan Gaur and Alok Bhardwaj</i>	India
T6985	Quantitative Detection of Ground Surface Changes due to Slope Failure Using ALOS-2/PALSAR-2 Data <i>Xuechen Wang, Hiroyuki Honda, Ibrahim Djamaluddin, Hisatoshi Taniguchi and Yasuhiro Mitani</i>	Japan
K1356	Evaluation of the Bearing Capacity of Scoured Bridge Foundations using Aluminum Rod Ground Model Tests <i>Hirano Moeka, Sasaki Yuna and Nishioka Hidetoshi</i>	Japan
I9662	Comparative Study of Evaluations of Bearing Capacity using Conventional Method and Finite Element Method <i>Suman Manandhar, Sunny Karmacharya, Panich Vootripruex and Salisa Chaiyaput</i>	Japan

Poster Session

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

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

Venue: **Technical Exhibition Hall**

Paper ID	Title, Authors	Country
U1854	Evaluation of the Erosion Control Performance and Vegetation of Natural Vegetation Recovery Promotion Type Mat Incorporated with Soil Algae (BSC Mat) <i>Nobuyuki Kohno, Aki Matsumoto, Mineto Tomisaka, Tetsushi Ozeki and Kohei Araki</i>	Japan
I8495	Transient Simulation of Ground Source Heat Pump in Tropical Region Considering Groundwater Flow <i>Arif Widiatmojo and Youhei Uchida</i>	Japan
R9061	Effects of Climate Change on Landslide Slope Stability and Case Studies <i>Shiro Ota, Masafumi Okawara, Nobuo Sakakibara and TakaMasa Yamaji</i>	Japan
W3315	Evaluation Case of Characteristics for Improved Soil by Elastic Wave Velocity Test <i>Takaaki Ariki</i>	Japan
A5665	A Case Study of Multi-Point Temperature Logging for Effective Groundwater Drainage in High Embankment <i>Masanori Murai, Masaya Kawata, Yuta Ichikawa and Atsuo Takeuchi</i>	Japan
K8098	Proposed Classification of Degradable Muddy Rocks Using Physical and Chemical Properties <i>Koji Yamashita, Xiangyu Wang and Noriyuki Yasufuku</i>	Japan
E9550	Influence of Nano Clay on Microstructure and Mechanical Properties of Fiber Reinforced Cement Mortar at Elevated Temperature <i>Kiran. S, Sadath Ali Khan Zai, Mallikarjun. A Indi and Amruth. R. Naik</i>	India
D2413	Effect of Microbial Strains through Triaxial Test on Bio-treated Granular Soil <i>Yu-Syuan Jhuo, Pin-Hsiu Liu, Chang-Ping Yu and Louis Ge</i>	Taiwan
M6686	Evaluation of Landslide Triggering Mechanism during Rainfall in Slopes Containing Vertical Cracks <i>Muhammad N. Hidayat, Hemanta Hazarika, Takashi Fujishiro, Masanori Murai, Suman Manandhar, Yan Liu, Yasuhide Fukumoto and Haruichi Kanaya</i>	Japan
H1265	Influence of Initial Static Shear Stress on the Dynamic Response of Embedded Cantilever Retaining Wall with Saturated Backfill <i>Anurag Sahare, GyuChan Choi and Kyohei Ueda</i>	Japan
L7856	A Plasticity Model of Binary Mixtures for Liquefaction Simulation Considering the Equivalent Granular Void Ratio <i>Fu-Hsuan Yeh, Yi-Qian Lu and Louis Ge</i>	Taiwan

Poster Session

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

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

Venue: **Technical Exhibition Hall**

Paper ID	Title, Authors	Country
H5641	Utilization of AI-based Diagnostic Imaging for Advanced and Efficient Tunnel Maintenance <i>Motoki Sato, Nobusuke Hasegawa, Hiroki Ohtsuka and Erika Kukisawa</i>	Japan
I9158	Characteristics of Soft Soil Stabilization with Bacillus Subtilis Bacteria on Unconfined Compressive Strength and Shear Strength of Soils <i>Rokhman, Tri Harianto, Achmad Bakri Muhiddin and Ardy Arsyad</i>	Indonesia
K6658	Recycled Sands from Demolition Wastes as a Natural Sand Substitute Material in Pavement Construction <i>Yunxin Xue, Arul Arulrajah, Suksun Horpibulsuk, Jian Chu and Guillermo Narsilio</i>	Australia
O5497	Strength Behaviors of PP Fiber-Reinforced Soil <i>Yu Syuan Jhuo , Jia Quan Lin , Shih Hao Cheng , Chih Jung Chien and Louis Ge</i>	Taiwan
R2619	Compaction Characteristics of Crushed Solidified Soil <i>Atsuko Sato, Hirochika Hayashi and Gen Chujo</i>	Japan
R7547	Study on the Erosion Resistance and Water Stability of Solidification of the Yellow River Sediment by Biomineralization Technology <i>Yuke Wang, Zhenhai Wang, Hao Chen, Tiancai Cao and Yuyuan Chen</i>	China
L2064	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 <i>Bindiya K and Muddaraju H C</i>	India
B7990	Simultaneous Removal and Filling Method for Earth Retaining Members Contributing to SDGs <i>Yasuhiko Nishi and Hiroaki Watanabe</i>	Japan
D1011	Consolidated and Undrained Triaxial Compression Characteristics of Slag-Clay Mixtures with Wide Unconfining Compression Strengths <i>Masaaki Katagiri, Seiya Yamazaki, Yuka Kakahara, Akio Takada and Yoshiaki Kikuchi</i>	Japan
F5725	Multiscale Properties of Fly Ash Modified Recycled Fine Aggregate Mortar for Stone Masonry <i>Shiwei Hou, Jinzhao Hou, Zhanwen Lai and Junyan Han</i>	China
K3044	Effect of Lead and Zinc on Hydraulic Conductivity and Swelling Characteristics of Nanoclay Amended Bentonite <i>Riya Roy and Anil Kumar Mishra</i>	India
W9101	Utilization of Waste Material for Stabilization of Lateritic Soil <i>Salisa Chaiyaput, Jiratchaya ayawann, Suman Manandhar and Songklod Sae-Ueng</i>	Thailand

Poster Session

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

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

Venue: **Technical Exhibition Hall**

Paper ID	Title, Authors	Country
N4719	Evaluation of Mechanical Properties of Rice Resin as a Sustainable Ground Improvement Material <i>Rikuto Kobayashi, Hemanta Hazarika and Masanori Murai</i>	Japan
N6830	Development and Geographical Evaluation of Slope Failure Risk Index due to Changes of Soil Moisture <i>Honoka Asada and Kohei Araki</i>	Japan
E9087	Prediction of the Soil Surface Displacement Behavior in Bangkok, Thailand <i>Sutasinee Intui, Shinya Inazumi and Noppanut Kosinanondh</i>	Thailand
B9222	Experimental Study on Accumulated Deformation Characteristic of Yellow River Silt under Long-Term Dynamic Loading <i>Yuyuan Chen, Hemanta Hazarika and Yuke Wang</i>	Japan

9 GUIDE TO SPEAKERS & SESSION CHAIRS

9.1 Guide to Speakers

- a. It is recommended that you prepare your presentation in both PPT and PDF formats, and keep a secure copy on a USB/Pen Drive (version 3.0 or higher).
- b. Please ensure that you arrive at the presentation hall/room at least 20 minutes before your session is scheduled to begin. Upload your presentation materials and check the compatibility with the assigned staff in the room. In case your PPT version encounters problem, have the PDF version ready to prevent any disruptions during the presentation.
- c. Presentation time for different categories of speakers is shown below.

Table 7. Lecture categories and presentation time

Plenary Lecturer	30 minutes
Keynote Lecturer	25 minutes
Special Theme Lecturer	20 minutes
Young Researcher Special Lecturer	20 minutes
Bright Spark Lecturer	20 minutes
General Presenter	10 minutes

9.2 Guide to Session Chairs

- a. Please confirm the attendance of the speakers at least 15 minutes before the start of your session.
- b. Please ensure that you adhere to the scheduled starting time for each presentation, as indicated in the conference program, in order to maintain a smooth flow of the sessions. Our conference staff will be available to assist you with timekeeping.
- c. Presenters under 35 years old are eligible for the Best Presentation Award.
- d. Session chairs are, therefore, advised to obtain information about presenters' ages before commencing the session.
- e. Please provide ratings on the evaluation sheet to be kept on your table to recommend the Best Presentation.
- f. Printed copies of the CVs of the invited speakers will be kept on your table.
- g. The session chair should determine Q&A time for invited speakers and general presenters based on the circumstances. You have the liberty and flexibility to make adjustments for the efficient session flow as you need to.

10 GUIDELINES TO POSTER PRESENTERS

The following guidelines are provided to assist you with your poster presentation. Please refer to **Table 8** for details regarding the poster size, the posting time, the duration of poster display and core time for presentation.

- Pushpins required for your poster fixing will be provided by the Organizing Committee.
- Your assigned poster number will be displayed in the upper left corner of the panel, as shown in **Fig. 16**.
- Please ensure accurate measurements for the height and width of your poster. The core time is allocated for the presenters to explain their poster contents and Q&A time. All the presenters are requested to be present in front of their posters during this time.
- Following the session's conclusion (14:00, November 22), it is the presenter's responsibility to clean up and remove the poster. Please leave the presentation area in the same condition as before.

Table 8. Details of poster presentation

Posting Time	9:00-11:00, November 21 (Tuesday)
Duration of Poster Display	9:00-17:00, November 21-22
Core Time (Presentation/Discussion)	13:00-14:00, November 22 (Wednesday)
Venue of Poster Presentation	2F, Technical Exhibition Hall
Size of Poster	90 cm X 210 cm

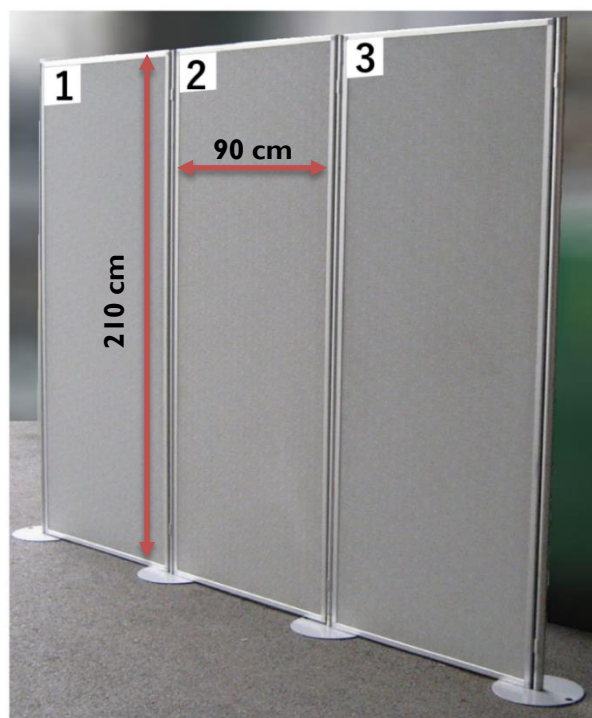


Fig. 16 Display panel for poster presentation

11 ADDITIONAL INFORMATION ON AWARDS

The following are some additional information on the awards to be presented during the conference.

- a. The Best Paper Award has already been selected based on review panel's decision and will be presented with an award during the closing ceremony.
- b. ISSMGE's Bright Spark Lectures are scheduled in the main hall (3F) on November 22.
- c. The Best Presentation Award will be selected based on recommendation by the session chairs and will be announced during the closing ceremony. Young researchers and engineers under the age of 35 will be eligible for this award.
- d. The Best Poster Presentation Award will be determined by the review panel members during the core time from 13:00 to 14:00 on November 22.

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CREST 2023

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