

GEOPHYSICAL ASPECTS OF SMART CITIES

3–5 December 2024 • Hanyang University, Seoul, South Korea

5106.37166

WORKSHOP OVERVIEW

In recent decades, Asia has experienced unprecedented urbanization, with millions migrating to cities in search of better opportunities. This rapid growth presents both opportunities and challenges, as cities grapple with issues such as congestion, pollution, and resource scarcity. To address these challenges and ensure sustainable growth, governments, businesses, and communities are turning to the concept of smart cities. A smart city leverages technology and data to improve efficiency, sustainability, and quality of life for its residents. By integrating innovative solutions across sectors such as transportation, energy, healthcare, and governance, smart cities aim to create more connected, resilient, and inclusive urban environments. Interdisciplinary research and development among geophysics, civil engineering, and digital informatics plays a critical role in supporting smart city initiatives by providing essential knowledge about the subsurface environment, infrastructure development, disaster resilience, and innovation, in order to build more resilient, sustainable, and livable urban environments for present and future generations.

The aim of this workshop is to impact the implementation of smart city initiatives across highly developed urban centers in Asia and globally. Following two successful editions held in Singapore and Hong Kong in 2019 and 2022, respectively, we are thrilled to bring this event to South Korea. Our primary objective is to showcase and deliberate on the lessons acquired and advancements made in geophysical techniques applied to smart city solutions. Emphasizing interdisciplinary collaboration with civil engineering and digital technologies, our focus spans hardware sensor innovation and the assessment of social and environmental implications of these technologies.

ABSTRACT TOPICS:

Abstracts for oral or poster presentations are invited for the below topics:

- Subsurface Imaging and Mapping
- Geohazard Assessment and Monitoring
- Non-Destructive Assessment of Infrastructure
- Geotechnical Site Characterization
- Groundwater Resource Management
- Environmental Impact Assessment
- Emerging Geophysical Methods for Tunneling & Underground Construction
- Geophysics driven use and risk management of underground space
- City / Infrastructure Planning directed by Geophysical Survey
- Understanding the regulatory aspects – Engineering

WHO SHOULD ATTEND:

Professionals, executives, entrepreneurs, and industry leaders who are interested in staying up to date with the latest trends, innovations, and best practices in Smart City.

ABSTRACT FORMAT

Min of 500 words + 1 figure, single column (at least 1 figure/graph) + reference

Abstracts should include sufficient details for the committee to judge the quality of the submitted work. Abstracts should be a minimum of 500 words plus minimum of 1 figure and references, (flexible on the number of pages). Abstracts should be on 8.5x11 inch paper size, have text in Roman font, and include both text and figures. Title should be one or two-line, at the top of the page, in bold font, and size 12 point. Authors should be listed in Roman italic font, size 10 point, and located just below the title. All text must stay 1 inch clear of the margins of the page. Submissions should be in Adobe Acrobat PDF format.

PRINT IN BLACK INK OR TYPE

Dr. Mr. Ms.

SEG ID# (if currently a member) _____

Full Name _____ Job Title: _____

Company/Organization _____

Mailing Address _____

City & State _____

ZIP/Postal Code _____

Country _____

Address listed: Business Home

Business Phone _____ Email: _____

Are you a student? Yes No

Subject _____ Presentation Type: Oral Poster Both

NOTE: The mechanical recording of any portion of the SEG workshop in any form (photographic, electronic, etc.) is strictly prohibited. Printed reference to the workshop presentations or discussions is not permitted without the consent of the parties involved. All participants are requested to omit public reference to the workshop proceedings in any published work or oral presentation. Only registrants are permitted to attend workshop sessions. Each participant agrees to these regulations when application is accepted, as indicated by his or her signature on this form.

Signature: _____ Date: _____

Please email abstract and call for abstracts form by **5 September 2024** to **Suba Jaganathan at sjaganathan@seg.org**.

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TECHNICAL COMMITTEE:

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