

# The 202nd TCU-ARL Seminar

## International Workshop on Civil Engineering Using Data Science and Sensing Technology



### Advanced Retrofit Technology International Center, Tokyo City University

This workshop provides an international platform for researchers to share their experiences and the latest findings that contribute to the advance of civil engineering using data science and sensing technology.

**Date and time:** 15:00-16:25, **28 (Friday) of October, 2022** (Japan local time)

**Venue:** Zoom (invitation link will be sent after registration)

#### **Registration for participation**

If you would like to participate, please email us at [artic@tcu.ac.jp](mailto:artic@tcu.ac.jp) with the following information.

1) your name, 2) your affiliation, 3) e-mail address

#### **Program**

| Time        | Presenter  | Topic   |
|-------------|--|---|
| 15:00-15:05 | Hidehiko Sekiya and Linh Van Hong Bui<br>(Tokyo City University)     | Welcome and introduction of seminar   |
| 15:05-15:20 | Shogo Morichika<br>(Tokyo City University)                           | Monitoring of PC bridge under construction with several sensors   |
| 15:20-15:35 | Tuan Minh Ha<br>(Ho Chi Minh City University of Technology, Vietnam) | Crack detection in reinforced concrete beams under various vertical loads using displacement curvature method       |
| 15:35-15:50 | Kohei Maruyama<br>(Tokyo City University)                            | Uncertainty quantification of axle weight estimated by Bayesian bridge weigh-in-motion                              |
| 15:50-16:05 | Suraparb Keawsawasvong<br>(Thammasat University, Thailand)           | Applications of machine learning approaches for predicting limit state solutions of geotechnical stability problems |
| 16:05-16:20 | Linh Van Hong Bui<br>(Tokyo City University)                         | Intervention to structures: solution and performance  |
| 16:20-16:25 | Ikumasa Yoshida<br>(Director of ARTIC, Tokyo City University)        | Closing speech  |

\*1 Each presenter talks in 12 minutes and responds to comments/questions in 3 minutes.

\*2 Audiences can provide comments/questions via chat box with their name and affiliation.