To prevent urban disaster!

SOFTech Workshop for Young Researchers 2019

Feb 22, 2019 14:00～

Venue : Tokyo Institute of Technology
Suzukakedai campus
Suzukake Hall
4259 Nagatsuta-cho, Midori-ku, Yokohama, Kanagawa 226-8503 JAPAN

The Consortium for Socio-Functional Continuity Technology (SOFTech) was launched in the fall of 2017 to develop technology to ensure continuity of essential functions performed in high-rise buildings and other urban structures following a major natural disaster.

This project was adopted by the Program on Open Innovation Platform with Enterprises, Research Institute and Academia (OPERA) as a Target-Driven R&D Project by the Japan Science and Technology Agency (JST). SOFTech comprises members from Tokyo Tech, Tohoku University, the University of Tokyo, Kobe University, and partners from industry.

The aim of the workshop is to bring together young researchers around the Asia to present, share and discuss their researches related to urban disaster prevention.

21 young researchers will present their researches in this workshop.
We welcome all interested visitors!!

If you want to participate in the workshop, please email your name and affliation to SOFTech office(softech@softech.titech.ac.jp).

Suzukake Hall

Workshop Program

Opening address: Meeting Room1 14:00～ Satoshi Yamada

Session 1: Meeting Room1 14:10～   Chair: Qiqi Li, Xu Xi

A shake table test on the seismic damage characteristics of gypsum board suspended ceilings
Qiqi Li   Institute of Engineering Mechanics（China）

Seismic Response Spectrum Rule for Non-structural Components in Buildings
Shingo Komatsu   Tokyo Institute of Technology

Dynamic loading protocol for experiments of non-structural components considering the seismic response characteristics of building structures
Yuteng Cao   Institute of Engineering Mechanics（China）

Visibility Estimation Using Contrasts of LMS Stimulus Values Expecting Color Universal Design
Yoko Kato   Tokyo Institute of Technology

Application of membrane-structure roof for privately owned public open space around high-rise buildings during disaster and normal conditions
Xi Xu   Tokyo Institute of Technology

Session 2:   Meeting Room1 15:40～   Chair: Paolo Ian Lucero, Mingyu Meng

Prediction of unsteady pressure around buildings on terrain by LES
Mingyu Meng   Tokyo Institute of Technology

People Counting using Multiple Time of Flight Sensors
Eric Christopher   Tokyo Institute of Technology

On the Resilience of Philippine Transport Systems: The Case of Ninoy Aquino International Airport (NAIA)
Paolo Ian Lucero   De La Salle University (Philippines)

Indices for Evaluating Emergency Vehicle Accessibility after a Large Earthquake
Maki Kishimoto   Tokyo Institute of Technology

Seismic Resilience Quantification of Local Water Distribution Networks
Richard M.de Jesus   De La Salle University (Philippines)

Session 3: Meeting Room2 14:10～   Chair: Ammiel Mac A. Barros, Kou Miyamoto

Analysis of a Full-Scale Multi-Layered Viscoelastic Damper Considering Heat Generation and Transfer
Dave M. Osabel   Tokyo Institute of Technology

Tuned Viscous Mass Damper (TVMD) Coupled Wall System for Enhancing Seismic Performance of High-Rise Buildings
Yuhao Cheng   Tsinghua University (China)

New modeling method for equivalent bending shear model
Kazuki Watai   Tokyo Institute of Technology

Damage Detection in a Three-Dimensional Tower Model Using Modal Correlation Coefficient Algorithm
Ammiel Mac A. Barros University of the Philippines (Philippines)

A new active structural control strategy based on equivalent input disturbance
Kou Miyamoto   Tokyo Institute of Technology

Session 4: Meeting Room2 15:40～   Chair: Kristian Azul, Tenderan Randy

Characteristics of horizontal particle motions from the 2004 off the Kii Peninsula earthquake on large sedimentary basins in Japan
Andi Muhamad Pramatadie Tokyo Institute of Technology

Simulation of October 15, 2013 M7.2 Bohol Earthquake with Analyses Focused on Response Spectrum Comparison
Kristian Azul   University of the Philippines (Philippines)

Investigation on Ferro-cement laminated infilled masonry wall under cyclic lateral load
Debasish Sen   Tohoku University

Study on shear strength of disk shear-key under combined stress
Yutaro Ishida   Tokyo Institute of Technology

Visual Rating method for seismic evaluation of RC buildings with masonry infill
Md Shafiul Islam   Tohoku University

Evaluation method of cyclic deformation capacity of beam-to-column connection determined by ductile fracture
Randy Tenderan   Tokyo Institute of Technology

Networking Session: Lounge 17:30～