Seminar on
“Modeling Disasters in the Urban Environment”

February 27, 2019

演習室 B - Training Room B (2F)
International Research Institute of Disaster Science,
Tohoku University, Sendai, Japan

In the framework of the JST-SICORP Japan-Israel Collaborative Project

“A Dynamic Integrated Model for Disaster Management and Socio-Economic Analysis”
Workshop on “Modeling Disasters in the Urban Environment”

Program

Presentations are scheduled on 20min + 5min for Q&A

10:00 – 10:15
Introduction

10:15 – 10:40
Towards effective tsunami evacuation via reinforcement learning algorithm

Erick Mas
Associate Professor, International Research Institute of Disaster Science, Tohoku University

10:40 – 11:05
Generating building-level damage probabilities Using HAZUS outputs

Eilat Elbaum
Master Student, Hebrew University of Jerusalem, Israel

11:05 – 11:30
Tohoku University Earthquake Recovery Firm Survey

Satoru Masuda
Professor of Regional Planning, Graduate School of Economics and Management, Tohoku University

11:30 – 11:55
Remote sensing technology applied on damage estimation

Luis Moya
Researcher, International Research Institute of Disaster Science, Tohoku University

11:55 – 12:20
A logistical approach for facility location planning for relief distribution

Rubel Das
Researcher, Research & Development Center, Center for Advanced Research and Development, Nippon Koei Ltd.

Lunch Break: 12:20 – 14:00
Cascading Effects of a Disaster on the Labor Market
Daniel Felsenstein
Professor, Hebrew University of Jerusalem, Israel

Natural Hazards and Moral hazards: Understanding the Insurance Coverage Limit
Masha Vernik
Master Student, Hebrew University of Jerusalem, Israel

Load-resistance analysis: An alternative approach to tsunami damage assessment
Anawat Suppasri
Associate Professor, International Research Institute of Disaster Science, Tohoku University

Tsunami economic losses with multi-regional-input-output modeling: case study in the Okinawa Island
Pakoksung Kwanchai
Willis Research Fellow

Shoreline Evolutions by Human Activities and Natural Processes: Observation and Modelling Techniques
Nguyen Xuan Tinh
Assistant Professor, Department of Civil Engineering, Tohoku University

General Discussion: 16:05 – 16:30