Day1(4/16) 14:00 - 15:30		
TS6-15-1	TS7-3	TS6-8-1
Chair: William E. Kelly	Chair: Ken Kawamoto	Chairs: Akira Kashida (Kajima
(ASCE)	(Saitama University)	Corp.)
ASCE's support for	Management of landfills	Automated construction in Oita-
sustainable infrastructure	reclaimed with construction	gawa dam project
education and practice	and demolition wastes -	Takayuki Kambe (Kajima
William E. Kelly (ASCE)	Strength characterization	Corp.)
	for stability assessment	
	Purbashree Sarmah	
	(Kyoto University)	
Transforming civil	Measures taken in	Applying computer vision
engineering education and	Construction and	technology to inclination
practice to achieve the	Demolition Waste (CDW)	monitoring of a drainage gallery
United Nations sustainable	recycling in Japan	in a landslide
development goals: Where	Fumiaki Jikihara (Ministry	I-Hui Chen (National Chung
we are - Indian perspective	of Land, Infrastructure,	Hsing University)
Ajit Sabnis (InCiCon AG)	Transport and Toursim)	
Status of Bangladesh in	Sources, barriers and good	As-built management using the
educating future civil	practices to reduce	execution history of
engineers and practitioners	construction waste	construction machines in
on sustainable	Lilliana Abarca-Guerreo	pavement construction
infrastructure practices	(Instituto Tecnologico de	Genzaburo Matsuura (Tokyo
Mohammad Ali Ashraf	Costa Rica)	City University)
(Southern University		,
Bangladesh)		

	Day1(4/16) 14:00 - 15:30		
New Zealand's provision for	Policy on excavated soil	Development of new road	
sustainable infrastructure	generated Tokyo Outer	pavement condition	
education and practice	Ring Road (Kanetsu-Tomei)	visualization technology utilizing	
April J. Lander (ASCE)	construction	smartphone	
	Yoshio Shibata (Ministry	Hiroshi Sasaki (Fujitsu Traffic	
	of Land, Infrastructure,	& Road Data Service Ltd.)	
	Transport and Toursim)		
Sustainability practice in	Opportunities and	Novotel Hotel extension project	
the Philippine Infrastructure	challenges of construction	- planning, design and	
Design and Construction	and demolition waste	construction of a seismic	
Ernesto S. de Castro	utilization: case of concrete	isolated structure above an	
(ESCA Inc./ PICE)	waste utilization in Bangkok	underground metro station	
	Metropolitan Region,	Shih-Pu Kuo (Sinotech	
	Thailand	Engineer Consultants Ltd.)	
	Vilas Nitivattananon		
	(Asian Institute of		
	Technology)		
Continual Learning Center	Current situation and new		
in Nepal for Sustainable	regulations on construction		
Infrastructure Practices	and demolition waste		
Dhrub Rai Thapa (Nepal	management in Vietnam		
Engineeres' Association)	Nguyen Hoang Giang		
	(National University of Civil		
	Engineering)		

	Day1(4/16) 14:00 - 15:30	
TS6-14-1	TS4-3	TS6-12
Chair: Kuniyoshi	Chair: Akimasa Fujiwara	Chair: Nobuyoshi Yabuki
Takeuchi (University of	(Hiroshima University)	(Osaka University)
Yamanashi)	,,,	,,
Transdisciplinary approach	An evaluation of traffic and	Stereo vision based
for scientific-knowledge	safety efficiency of Single	framework for on-site
based decision making for	Point Urban (SPUI) and	tracking of multiple workers
building societal resilience	Diverging Diamond	Man-Woo Park (Myongji
to disasters	Interchange (DDI)	University)
Kuniyoshi Takeuchi	interchange.	
(University of Yamanashi)	Amir Masoud Rahimi	
	(University of Zanian)	
Transdisciplinary approach	Potential and challenges of	Image sensing of traffic
in the preparedness phase	big data for transportation	flow characteristics and its
of a debris flow prone	planning and management	application for traffic safety
village in Taiwan	in the context of developing	Albert Y. Chen (Taiwan
Ting-Chi Tsao (Sinotech	nations	National University)
Engineering Consultants,	Arnab Jana (Indian	
Inc.)	Institute of Technology	
	Bombay)	
Trans-disciplinary approach	The effectiveness of	Productivity improvements
for enhancing resilience of	collected travel-time data	in the field of construction
business communities:	on travel time saving in a	by ICT
learning from Padang city	shared autonomous taxi	Masahiko Takeda (Japan
Harkunti Pertiwi Rahayu	system	Construction Information
(Institute Technology of	Zhiguang Liu (Nagoya	Center)
Bandung)	University)	

Institutional structure for incorporating science into decision-making - Building the new-settlement of Tacloban city of the Philippines - Senro Kuraoka (Nippon Koei Co., Ltd.) Status of Vietnam coastal erosion and proposed policies for protection Kien Hoang Pham (University of Transport and Communications) Restoration of housings in Nepal after the Gorkha earthquake, April 25th, 2015 in the light of trans disciplinary approach Masashi Inoue (Eight-Japan Engineering Consultants, Inc.) Good reconstruction practices in Pakistan after the Kashimir earthquake Sarosh H. Lodi (NED University of Engineering & Technology, Pakistan) An analysis of tructy to trajectory data of freight data of freight trajectory data of freight trajectory data of freight trajectory data of freight data of freight understory of Land, Infrastructure, Transport and Tourism) Hirotaka Sekiya (Ministry of Engineerio Sehiology) Riand, Infrastructure, Transport and Tourism) Hirotaka Sekiya (Ministry of Engineerio Sehiology) Retropolitan Area Hideki Oka (The Institute of Behavioral Sciences) An analysis of traffic accidentes Efforts to improve productivity practiced by construction companies Funihiro Ojima (Tokyu Construction Co., Ltd.) Construction Co., Ltd.) Status of Vietnam coastal erosion and proposed accident factors using Efforts to improve productivity practiced by construction of Construction of Dimarkation accident factors using Efforts to improve productivity practiced by construction of Dimarkation accident factors using Efforts to improve productivity practiced by construction of Dimarkation accidentes accid		Dev4/4/46) 44-00 45-00	
incorporating science into decision-making - Building the new-settlement of Tacloban city of the Philippines - Hideki Oka (The Institute Senro Kuraoka (Nippon Koei Co., Ltd.) Status of Vietnam coastal erosion and proposed policies for protection Kien Hoang Pham (University of Transport and Communications) Restoration of housings in Nepal after the Gorkha earthquake, April 25th, 2015 in the light of trans disciplinary approach Masashi Inoue (Eight-Japan Engineering Consultants, Inc.) Good reconstruction practices in Pakistan after the Kashimir earthquake Sarosh H. Lodi (NED University of Engineering &	T. 11. 1	Day1(4/16) 14:00 - 15:30	
decision-making - Building the new-settlement of Tacloban city of the Philippines - Hideki Oka (The Institute of Behavioral Sciences) Status of Vietnam coastal erosion and proposed policies for protection Kien Hoang Pham (University of Transport and Communications) Restoration of housings in Nepal after the Gorkha earthquake, April 25th, 2015 in the light of trans disciplinary approach Masashi Inoue (Eight-Japan Engineering Consultants, Inc.) Good reconstruction practices in Pakistan after the Kashimir earthquake Sarosh H. Lodi (NED University of Engineering &		'	·
the new-settlement of Tacloban city of the Philippines - Hideki Oka (The Institute of Behavioral Sciences) Senro Kuraoka (Nippon Koei Co., Ltd.) Status of Vietnam coastal erosion and proposed policies for protection Kien Hoang Pham (University of Transport and Communications) Restoration of housings in Nepal after the Gorkha earthquake, April 25th, 2015 in the light of trans disciplinary approach Masashi Inoue (Eight-Japan Engineering Consultants, Inc.) Good reconstruction practices in Pakistan after the Kashimir earthquake Sarosh H. Lodi (NED University of Engineering &		l'	i '
Tacloban city of the Philippines - Hideki Oka (The Institute of Behavioral Sciences) Senro Kuraoka (Nippon Koei Co., Ltd.) Status of Vietnam coastal erosion and proposed policies for protection Kien Hoang Pham (University of Transport and Communications) Restoration of housings in Nepal after the Gorkha earthquake, April 25th, 2015 in the light of trans disciplinary approach Masashi Inoue (Eight-Japan Engineering Consultants, Inc.) Good reconstruction practices in Pakistan after the Kashimir earthquake Sarosh H. Lodi (NED University) Metropolitan Area Hideki Oka (The Institute of Behavioral Sciences) Transport and Tourism) Fforts to improve productivity practiced by construction companies Fumihiro Ojima (Tokyu Construction Co., Ltd.) Canh Xuan Do (Hiroshima University) Construction Co., Ltd.) Fumihiro Ojima (Tokyu Construction Construction Construction Construction Construction Construction Consultants, Inc.)	1	trajectory data of freight	Hirotaka Sekiya (Ministry
Philippines - Senro Kuraoka (Nippon Koei Co., Ltd.) Status of Vietnam coastal erosion and proposed policies for protection Kien Hoang Pham (University of Transport and Communications) Restoration of housings in Nepal after the Gorkha earthquake, April 25th, 2015 in the light of trans disciplinary approach Masashi Inoue (Eight-Japan Engineering Consultants, Inc.) Good reconstruction Hideki Oka (The Institute of Behavioral Sciences) An analysis of traffic accident factors using ETC2.0 data Canh Xuan Do (Hiroshima Fumihiro Ojima (Tokyu Construction Co., Ltd.) Fumihiro Ojima (Tokyu Construction Co., Ltd.) Construction Co., Ltd.) Construction Co., Ltd.) Good reconstruction practices in Pakistan after the Kashimir earthquake Sarosh H. Lodi (NED University of Engineering &		vehicles in the Tokyo	of Land, Infrastructure,
Senro Kuraoka (Nippon Koei Co., Ltd.) Status of Vietnam coastal erosion and proposed policies for protection Kien Hoang Pham (University of Transport and Communications) Restoration of housings in Nepal after the Gorkha earthquake, April 25th, 2015 in the light of trans disciplinary approach Masashi Inoue (Eight-Japan Engineering Consultants, Inc.) Good reconstruction Good reconstruction Good reconstruction practices in Pakistan after the Kashimir earthquake Sarosh H. Lodi (NED University) An analysis of traffic accident factors using productivity practiced by construction companies Fumiliro Ojima (Tokyu Construction Co., Ltd.) Construction Co., Ltd.) Footameter of Efforts to improve productivity practiced by construction companies Fumiliro Ojima (Tokyu Construction Co., Ltd.) Construction Co., Ltd.) Construction Co., Ltd.) Construction Co., Ltd.)	Tacloban city of the	Metropolitan Area	Transport and Tourism)
Koei Co., Ltd.) Status of Vietnam coastal erosion and proposed policies for protection Kien Hoang Pham (University of Transport and Communications) Restoration of housings in Nepal after the Gorkha earthquake, April 25th, 2015 in the light of trans disciplinary approach Masashi Inoue (Eight-Japan Engineering Consultants, Inc.) Good reconstruction practices in Pakistan after the Kashimir earthquake Sarosh H. Lodi (NED University of transalise in An analysis of traffic accident factors using productivity practiced by construction companies Fumihiro Ojima (Tokyu Construction Co., Ltd.) Footnative Transport and View Efforts to improve productivity practiced by construction companies Fumihiro Ojima (Tokyu Construction Co., Ltd.) Footnative Transport and View Efforts to improve productivity practiced by construction companies Fumihiro Ojima (Tokyu Construction Co., Ltd.) Sonstruction Co., Ltd.) Gonstruction Co., Ltd.) Gonstruction Co., Ltd.)	Philippines -	Hideki Oka (The Institute	
Status of Vietnam coastal erosion and proposed policies for protection Kien Hoang Pham (University of Transport and Communications) Restoration of housings in Nepal after the Gorkha earthquake, April 25th, 2015 in the light of trans disciplinary approach Masashi Inoue (Eight-Japan Engineering Consultants, Inc.) Good reconstruction practices in Pakistan after the Kashimir earthquake Sarosh H. Lodi (NED University) An analysis of traffic accident factors using productivity practiced by construction companies Fumihiro Ojima (Tokyu Construction Co., Ltd.) Construction Co., Ltd.) Fumihiro Ojima (Tokyu Construction Co., Ltd.)	Senro Kuraoka (Nippon	of Behavioral Sciences)	
erosion and proposed policies for protection Kien Hoang Pham (University of Transport and Communications) Restoration of housings in Nepal after the Gorkha earthquake, April 25th, 2015 in the light of trans disciplinary approach Masashi Inoue (Eight-Japan Engineering Consultants, Inc.) Good reconstruction practices in Pakistan after the Kashimir earthquake Sarosh H. Lodi (NED University of Atlanta Sarosh H. Lodi (NED University of Engineering &	Koei Co., Ltd.)		
policies for protection Kien Hoang Pham (University of Transport and Communications) Restoration of housings in Nepal after the Gorkha earthquake, April 25th, 2015 in the light of trans disciplinary approach Masashi Inoue (Eight-Japan Engineering Consultants, Inc.) Good reconstruction practices in Pakistan after the Kashimir earthquake Sarosh H. Lodi (NED University of Engineering &	Status of Vietnam coastal	An analysis of traffic	Efforts to improve
Kien Hoang Pham (University of Transport and Communications) Restoration of housings in Nepal after the Gorkha earthquake, April 25th, 2015 in the light of trans disciplinary approach Masashi Inoue (Eight-Japan Engineering Consultants, Inc.) Good reconstruction practices in Pakistan after the Kashimir earthquake Sarosh H. Lodi (NED University of Engineering &	erosion and proposed	accident factors using	productivity practiced by
(University of Transport and Communications) Restoration of housings in Nepal after the Gorkha earthquake, April 25th, 2015 in the light of trans disciplinary approach Masashi Inoue (Eight-Japan Engineering Consultants, Inc.) Good reconstruction practices in Pakistan after the Kashimir earthquake Sarosh H. Lodi (NED University of Engineering &	policies for protection	ETC2.0 data	construction companies
Restoration of housings in Nepal after the Gorkha earthquake, April 25th, 2015 in the light of trans disciplinary approach Masashi Inoue (Eight- Japan Engineering Consultants, Inc.) Good reconstruction practices in Pakistan after the Kashimir earthquake Sarosh H. Lodi (NED University of Engineering &	Kien Hoang Pham	Canh Xuan Do (Hiroshima	Fumihiro Ojima (Tokyu
Restoration of housings in Nepal after the Gorkha earthquake, April 25th, 2015 in the light of trans disciplinary approach Masashi Inoue (Eight- Japan Engineering Consultants, Inc.) Good reconstruction practices in Pakistan after the Kashimir earthquake Sarosh H. Lodi (NED University of Engineering &	(University of Transport	University)	Construction Co., Ltd.)
Nepal after the Gorkha earthquake, April 25th, 2015 in the light of trans disciplinary approach Masashi Inoue (Eight- Japan Engineering Consultants, Inc.) Good reconstruction practices in Pakistan after the Kashimir earthquake Sarosh H. Lodi (NED University of Engineering &	and Communications)		
Nepal after the Gorkha earthquake, April 25th, 2015 in the light of trans disciplinary approach Masashi Inoue (Eight- Japan Engineering Consultants, Inc.) Good reconstruction practices in Pakistan after the Kashimir earthquake Sarosh H. Lodi (NED University of Engineering &			
earthquake, April 25th, 2015 in the light of trans disciplinary approach Masashi Inoue (Eight- Japan Engineering Consultants, Inc.) Good reconstruction practices in Pakistan after the Kashimir earthquake Sarosh H. Lodi (NED University of Engineering &	Restoration of housings in		
2015 in the light of trans disciplinary approach Masashi Inoue (Eight- Japan Engineering Consultants, Inc.) Good reconstruction practices in Pakistan after the Kashimir earthquake Sarosh H. Lodi (NED University of Engineering &	Nepal after the Gorkha		
disciplinary approach Masashi Inoue (Eight- Japan Engineering Consultants, Inc.) Good reconstruction practices in Pakistan after the Kashimir earthquake Sarosh H. Lodi (NED University of Engineering &	earthquake, April 25th,		
Masashi Inoue (Eight- Japan Engineering Consultants, Inc.) Good reconstruction practices in Pakistan after the Kashimir earthquake Sarosh H. Lodi (NED University of Engineering &	2015 in the light of trans		
Masashi Inoue (Eight- Japan Engineering Consultants, Inc.) Good reconstruction practices in Pakistan after the Kashimir earthquake Sarosh H. Lodi (NED University of Engineering &	disciplinary approach		
Japan Engineering Consultants, Inc.) Good reconstruction practices in Pakistan after the Kashimir earthquake Sarosh H. Lodi (NED University of Engineering &			
Consultants, Inc.) Good reconstruction practices in Pakistan after the Kashimir earthquake Sarosh H. Lodi (NED University of Engineering &	, -		
practices in Pakistan after the Kashimir earthquake Sarosh H. Lodi (NED University of Engineering &	Consultants, Inc.)		
practices in Pakistan after the Kashimir earthquake Sarosh H. Lodi (NED University of Engineering &	Good reconstruction		
the Kashimir earthquake Sarosh H. Lodi (NED University of Engineering &			
Sarosh H. Lodi (NED University of Engineering &			
University of Engineering &	,		
	`		
Teamology, Fundamy			
	recimology, ranscarr)		

	Day1(4/16) 14:00 - 15:30	
Relocation and land-use		
regulation following the		
Great East Japan		
Earthquake: How can		
scientific knowledge be		
incorporated into recovery?		
Mikio Ishiwatari (Japan		
International Cooperation		
Agency)		
Trans disciplinary approach		
for restroration of		
Kumamoto castle after the		
earhquakes in 2016		
Masaru Arakida (Asian		
Disaster Reduction Cener)		

Day1(4/16) 14:00 - 15:30		
TS2-2	TS2-7	
Chair: Osamu Kiyomiya	Chairs: Hiroyasu Kawai	
(Waseda University)	(Port and Airport Research	
	Institute), Wen-Son	
	Chiang (National Cheng	
	Kung University)	
Technical standards	Characteristics of coastal	
development, the present	disasters due to swell	
state of technical standards	overtopping in Japan	
and technical cooperation in	Katsuya Hirayama (Port	
the ports and harbors field	and Airport Research	
in Japan	Institute)	
Masafumi Miyata		
(National Institute of for		
Land and Infrastructure		
Management MLIT)		
Development of design	Impact of wave height and	
code for port and harbor	sea level increasing on	
facilities in Asian countries	shoreline recession	
by university side	Wen-Son Chiang	
Osamu Kiyomiya (Waseda	(National Cheng Kung	
University)	University)	
Development of quality port	Introduction to the new	
infrastructure through the	web-based wave	
establishment of the	information system of	
national technical	Korea	
regulations and standards	Sang-Ho Oh (Korea	
Hau Duc Nguyen	Institute of Ocean Science	
(Institute of Transport	and Technology)	
Sicence and Technology)		

Dav1(4/16)	14:00 - 15:30
High quality infrastructure	Flow characteristics of
initiatives through the	undular bore propagating
establishment of the	over sloping beach
national technical standard	Chang Lin (National Chung
for port facilities	Hsing University)
Sinya Mori (Ministry of	,,,
Land, Infrastructure,	
Transport and Tourism)	
The Cambodia ports and	Current status and
terminals management	challenges of wave
including the development	observation for ports and
of national technical	harbours in Japan
standards and regulation	Takashi Fujiki (Port and
for ports construction and	Airport Research Institute)
operations	
Ros Sophornna (Ministry	
of Public Works and	
	Investigation of tropical
	depression characteristics
	and its associated surge
	along the coast of
	Bangladesh
	Md Abdul Al Mohit
	(Kvushu University)

Day1(4/16) 16:00 - 17:30		
TS6-15-2	TS3-1	TS6-8-2
Chair: William E. Kelly	Chair: Chiwan W. Hsieh	Chairs: Akira Ooka (Taisei
(ASCE)	(National Pingtung University	Corp.)
	of Science and Technology)	
Next steps to ensure civil	RECP installation effect on	Design and construction of
engineers in the U.S. can	vegetation growth, soil erosion	linkway with underpinning and
support achievement of the	and manning coefficient in	SCL tunnels with ground
SDGs	channel flow	freezing crossing underneath
William E. Kelly (ASCE)	Motsa Thabo (National	existing MRT live tunnels for
	Pingtung University of Science	Thomson-East Coast Line
	and Technology)	Marina Bay Station in
		Singapore
Next steps to ensure civil	Model tests on geosynthetic-	Design and construction of the
engineers in Japan can	reinforced soil foundation	tunnel with artificial ground
support achivement of the	subjected to normal faulting	freezing for the 100m
SDGs	Jung Chiang (National	passenger adit of MTR West
Yoshinori Fukubayashi	Taiwan University)	Island Line C704 in Hong
(University of Miyazaki)		Kong
		Teijiro Saito (Nishimatsu
Technical cooperation and its	Applications of geosynthetics	On the volume restriction
contribution to the realization	for countermeasures against	operation of artificially frozen
of the SDGs' "Data Revolution"	nuclide contamination	ground for suppression of frost
Hiroshi Takeuchi (Japan	Takeshi Katsumi (Kyoto	heaving by warm-water piping
International Cooperation	University)	around frozen ground
Agency)		Hiroshi Ogura (Seiken Co.,
		Ltd.)

Day1(4/16) 16:00 - 17:30		
	Analysis of model test results	Prediction of ground
	on combined use of EPS and	deformation and freezing
		j
	geogrid to improve seismic	earth pressure with anisotropy
	stability of bridge abutments	of frost heave in artificial
	Junichi Koseki (The	ground freezing method
	University of Tokyo)	Masato Oishi (Seiken Co.,
		Ltd.)
	Investigation of geosynthetic	The first and largest
	reinforced soil embankments	membrane-based water
	Tomohiro Fujita (Public	treatment plant in the
	Works Research Institute)	Philippines
		Ronaldo C. Padua (Maynilad
		Water Services, Inc.)
	Lateral shear resistance of	Design and construction of 6m
	triangular geogrid-reinforced	diameter segmental tunnel in
	aggregate layer overlaying	NIPE Contract C4, Singapore
	poorly-graded sand layer	Ong Ai Bin (Penta Ocean
	Jiro Kuwano (Saitama	Construction Co., Ltd.)
	University)	, ,
	,,	
	Application of vertical drains	
	for the construction of	
	embankment	
	Li-Sheng Tseng (Sinotech	
	Engineering Consultants, Ltd.)	

D- 4/4/46) 46 00 47 00		
TOC 44.2	Day1(4/16) 16:00 - 17:3	
TS6-14-2	TS6-6	TS3-2
Chair: Kuniyoshi	Chair: Sang-Ho Lee	Chair: Shinichi Akutagawa
Takeuchi (University of	(Yonsei University)	(Kobe University)
ACECC TC21's Efforts	The BIM application of	On-Site visualization for
Toward Building Societal	Danjiang Bridge Project,	advanced safety management
Resilience to Disasters	Taiwan	and maintenance for tunnels
through Transdisciplinary	Ting Far Teng (Sinotech	Shinichi Akutagawa (Kobe
Approach (TDA)	Engineering Consultants,	University)
Yoshihiro Katsuhama	Ltd.)	
(Nippon Koei Co., Ltd.)		
Transdisciplinary Approach	Planning of the Infra BIM	Case study on recovery of
for Building Social	implementation for	over-deformed metro tunnel
Resilience to Disasters	construction site offices	in Shanghai by soil grouting
-The 21st Technical	Hee Won Park (TAESUNG	Dongming Zhang (Tongji
Committee Activity-	SNI Singapore)	University)
Kenichi Tsukahara		
(Kvushu Universitv)		
	Now and future of Infra	Consideration for supporting
	BIM mandate and projects	creation of 3-D model of
	Yoshihiko Fukuchi	underground structure
	(Autodesk Inc.)	Takeshi Okamoto (Takenaka
		Civil Engineering &
		Construction Co., Ltd.)
	Development of BIM-based	Construction challenges and
	information management	characteristic considerations
	system for railway	for a metamorphic rock tunnel
	infrastructure projects	in Taiwan
	Sung-Hoon Kim	Zong-Han Wu (CECI
	(TAESUNG SNI)	Engineering Consultants, Inc.)

Day1(4/16) 16:00 - 17:30		
	Development of BIM based	
S	tandard technology for	
railway infrastructure		
9	Sang-Ho Lee (Yonsei	
U	Iniversity)	

Day1(4/16) 16:00 - 17:30		
	TS2-1	
	Chair: Yoshimitsu Tajima	
	(The University of Tokyo)	
	Integration of remote sensing	
	and GIS to study erosion and	
	accretion at estuaries and	
	coastal zone in Thua Thien	
	Hue province	
	Hung Thanh Nguyen	
	(Vietnam Academy for Water	
	Resources)	
	Investigation of dynamic	
	morphological changes	
	around the potential cross-	
	dams sites at the north-	
	eastern part of the Meghna	
	Estuary of Bangladesh	
	Mohammad Asad Hussain	
	(Bangladesh University of	
	Engineering and Technology)	
	Development of economic	
	evaluation framework for	
	adaptation to future beach	
	loss	
	Keiko Udo (Tohoku	
	University)	

Potential use of discharge
channel for beach recovery in
Pamanukan - Subang
Regency, Indonesia
Takayuki Suzuki (Yokohama
National University)
Thailand's economic and
adaptation assessment to
future beach loss due to sea
level rise
Chatuphorn Somphong
(Tohoku University)

Day2 (4/17) 09:00 - 10:30		
TS4-1	TS6-9	TS6-8-3
Chair: Masaaki Okada	Chairs: Tsunemi	Chairs: Akira Kashida
(Kindai University)	Watanabe (Kochi	(Kajima Corp.)
	University of Technology),	
	Hai Luong Nguyen	
	(University of Transport	
	and Communications)	
Redesign of historical	Investigation of users'	Construction of a sharp-
structures for succession	viewpoints in post appraisal	curved balanced cantilever
and to create a story of	of ODA infrastructure	bridge over a highway in
bridges and people	projects: the case of	Jakarta Mass Rapid Transit
Yoh Sasaki (Waseda	Vietnam	Project
University)	Luong Hai Nguyen	Koushi Seki (Tokyu
	(University of Transport	Constructin Co., Ltd.)
	and Communications)	
An actual proof of	Evaluation approaches to	Post-pile cap static axial
Tokushima's Museum of	improve efficiency of Japan'	loading test
Bridges	s development assistance	Muhammad Rizal (WIKA
Shuichi Takeichi	projects	Engineering and Research
(Tokushima Prefecture	Satoshi Yamaoka	Institute)
Land Development Public	(Utsunomiya University)	
Corporation)		
The importance of	Introduction of users'	Historic Franklin Avenue
autonomous management	viewpoint into post	Bridge rehabilitation
by a local community for	evaluation for ODA	Stephen Kaldenbach
sustainable use of	infrastructure projects	(Kraemer North America)
traditional water	focusing on appropriate	
infrastructure: a case study	technology	
in Gujo Hachiman	Junji Yokokura (Yachiyo	
Seiya Inomata (School of	Engineering Co., Ltd.)	
the Water in Gujo-		
hachiman, Specified		
Nonprofit Corporation)		

	Day2 (4/17) 09:00 - 10:30	
The new guide man of		
The new guide map of	Competitiveness of China's	Construction of Bang Pa-in-
bridges gain much more	large international	Korat Section 28-31 Project
interests of high school	contractors in 2017	(Thailand)
students	Shuangliang Tai (Harbin	Piyadit Atsavasirisuk (The
Kei Suzuki (Nihon	Instiutute of Technology)	Civil Engineering Co., Ltd.)
University)		
	Lesson learned and	Tokyo Outer Ring Road,
	direction for performance	Main Line Tunnel Project
	improvement of ODA	(Tomei-North)
	infrastructure project in	Masami Moriguchi (Kajima
	Indonesia	Corp.)
	Dewi Larasati (Institute of	
	Teknologi Bandung)	
	Estimation method to	
	measure effectiveness of	
	consulting engineers for	
	public works in Japan	
	Takashi Goso (Tokyo City	
	University)	
	Motivation of construction	
	engineers and users'	
	satisfaction in infrastructure	
	projects	
	Tsunemi Watanabe	
	(Kochi University of	

Day2 (4/17) 09:00 - 10:30		
TS4-6 & TS6-3	TS2-6	TS4-4
Chairs: Koki Hirota	Chairs: Toshio Koike	Chair: Shunsuke Kamijo
(Saitama University),	(Public Works Research	(National Institute for Land
Tamon Ueda (Hokkaido	Institute), Eko Winar	and Infrastructure
University)	Irianto (Research and	Management, MLIT)
	Development Center for	
	Water Resources,	
	Bandung)	
Estimating demand for	Water and disasters -	Logistics vehicle
flood protection	Toward building resilient	management system using
infrastructure	society under climate	ETC2.0 probe data
Mikio Ishiwatari (Japan	change -	Yuji Ikeda (National
International Cooperation	Toshio Koike (Public	Institute for Land and
Agency)	Works Research Institute)	Infrastructure
		Management)
Quality and resilient	Policy vision on rebuilding	Solutions for urban traffic
infrastructure in Asia: How	flood-conscious societies	issues using ITS
can investment gap be	Hirotada Matsuki	Technologies
bridged?	(Ministry of Land,	Shunsuke Kamijo
Koki Hirota (Saitama	Infrastructure, Transport	(National Institute for Land
University)	and Tourism)	and Infrastructure
		Management, MLIT)
An analysis of the future	Management system for	Impacts of driver's
demand for urban railways	mitigation of flooding	compliance levels on
in Asia	disaster in Tainan	effectiveness of reactive
Hiroshi Takeuchi (Japan	Cheng-Lun Shieh	variable speed limit control
International Cooperation	(National Cheng Kung	under freeway bottleneck
Agency)	University)	congestion
		Sorawit Narupiti
		(Chulalongkorn University)

	Day2 (4/17) 09:00 - 10:30	
Unlocking the spillover	Integrated flood modelling	Development of mobility as
effect of Infrastructure and	and monitoring in Indonesia	a service in Taiwan
improving quality of life:	Eko Winar Irianto	Jason Chang (National
new insights for private	(Research and	Taiwan University)
sector investment in	Development Center for	
developing countries in Asia	Water Resources,	
Ke Seetha Ram (Asian	Bandung)	
Development Bank		
Institute)		
The economics of	Activities for risk reduction	
investment in flood risk	of water-related disasters	
reduction in developing	through the IFI platform in	
countries: an application to	the Philippines	
the Rocha River Basin,	Maximo L. Carvajal	
Bolivia	(Department of Public	
David Corderi Novoa	Works and Highways, the	
(Natural Resources and	Philippines)	
Disaster Risk Management		
Division)		
Status and challenges of		
quality management for		
infrastructure in Taiwan		
Wu Te Ko (Cheng Shiu		
University)		

Day2 (4/17) 09:00 - 10:30		
GS-6-1	GS-1 & GS-5-1	TS2-3-1
Chair: Yoshinori	Chair: Yuta Yamada	Chair: Natsuhiko Otsuka
Fukubayashi (Miyazaki	(Nihon Univertsity)	(Hokkaido University)
University)		
Anti corruption, ethics,	Structural design of the	Overview of recent shipping
sustainable infrastructure	Danjiang Bridge, Taiwan -	activities along the
and the UN sustainable	The largest asymmetric	Northern Sea Route
development goals	single tower cable stayed	Xiaoyang Li (Hokkaido
William E. Kelly (ASCE)	bridge	University)
	Kilian Karius (Leonhardt,	
	Andra und Partner)	
A new engineering	Design of Chung Cheng	Characteristics of sea ice
management contribution	Steel Arch Bridge in Taipei	condition for safe
to SDGs in Asia	Hsin-Yang Tsai (CECI	navigation along the
Rikuo Katsumata (Tokyo	Engineering Consultants,	Northern Sea Route
City University)	Inc.)	Natsuhiko Otsuka
		(Hokkaido University)
GS-6 challenges and	A study on the design of	Estimation of sailing speed
experiences: the	experimental DB based on	through ice covered waters
professional construction	BIM for small and medium-	based on the satellite
management consultancy	sized aging Concrete bridge	observation along the
service of renovating sports	Se-Hyun Park (KOCED	Northern Sea Route
venues for 2017 Taipei	CMI)	Kazutaka Tateyama
Summer Universiade		(Kitami Institute of
Ting En Wu (Moh &		Technology)
Risk analysis of PPP urban	Seismic risk assessment of	
railway project in Asia	bridges in Indonesia:	
Hidetoshi Matsushita	methodology & case study	
(National Graduate	Mutiara Cripstyani (IUSS	
Institute for Policy Studies)	Pavia, PT Wiratman)	

Day2 (4/17) 09:00 - 10:30		
A Real Options Analysis		
(ROA) framework for		
resilient gas station projects		
Jatupol Siripongvakin		
(Kasetsart University)		

Day2 (4/17) 11:00 - 12:30		
Hold	TS2-5-1	Hold
	Chairs: Hitoshi Tanaka	
	(Tohoku University),	
	Il Won Seo (Seoul	
	National University)	
	Probable Maximum	
	Precipitation (PMP)	
	evaluation in Northeast	
	Vietnam region in the	
	context of climate change	
	Thuy Thi Thanh Le	
	(Fukushima University)	
	Levee breaches at the	
	confluence of the Satsunai	
	and Tottabetsu Rivers in	
	Hokkaido, Japan	
	Yoshiaki Ishida (Hokkaido	
	University)	
	Estimating low flows in the	
	flow duration curve of	
	catchments in the humid	
	tropics	
	Chris Leong (Fukushima	
	University)	
	Analysis of rainfall-induced	
	shallow landslide using	
	hydrological-geotechnical	
	model	
	Thapthai Chaithong	
	(Tohoku University)	

Day2 (4/17) 11:00 - 12:30		
	Characteristics of the	
	disaster by Northern	
	Kyushu Heavy Rain in July,	
	2017	
	Shinichiro Yano (Kyushu	
	University)	

Day2 (4/17) 11:00 - 12:30		
TS6-3 & TS6-7	TS4-7	TS6-16
Chair: Tamon Ueda	Chairs: Shinya Hanaoka	Chair: Yoh Sasaki
(Hokkaido University)	(Tokyo Institute of	(Waseda University)
	Technology), Rubel Das	
	(Nippon Koei Co., Ltd.)	
Assessing quality of	The role of urban planning	The role and challenges of
infrastructure in the United	in building disaster resilient	girl's class in civil
States	cities and the	engineering - Kanto Gakuin
William E. Kelly (ASCE)	demonstration case of	University
	Denpasar city in ASEAN	Sachiko Oyama
	Region	(Kojimagumi Co., Ltd.)
	Kien To (Eight-Japan	
	Engineering Consultants,	
	Inc.)	
Optimised management of	On the progress and	SWCE's influence and
aging infrastructure in	prospect for promoting	expectations in Japanese
Australia	sponge city in Taiwan	construction industry
Paul Louis Mitchell	Shen-Hsien Chen	Kiko Yamada Kawai
(Centre for Pavement	(Sinotech Engineering	(Tokyo Institute of
Excellence Asia Pacific Ltd.)	Consultants Inc.)	Technology)
ТВА	The key learned from the	Women in civil engineering:
Katsuji Fukumoto	leaders in regional	attracting and retaining
(Obayashi Road	revitalization	Robin A. Kemper (ASCE)
Corporation)	Shu Takahashi (Nippon	
	Koei Co., Ltd.)	

	Day2 (4/17) 11:00 - 12:30)
MLIT's initiative for	Regeneration of urban	Diversity & inclusion
promoting infrastructure	functions by improving	management supporting
investment	underground pedestrian	women's active
Okumura Yasuhiro	network of The Otemachi-	participation - introduction
(Ministry of Infrastructure,	Marunouchi- Yurakucho	of Pacific Consultant's
Land, Transport and	districts	actions-
Tourism)	Isao Muto (Mitsubishi	Ayako Okawa (Pacific
	Jisho Sekkei Inc.)	Consultants Co., Ltd.)
Discussion: policies of	The study on drainage and	Civil engineering: career
infrastructure development	sewerage improvement	prospects for women in the
in Jakarta	project in Phnom Penh	Middle East
Sutanto Soehodho	metropolitan area	Dima Jawad (Notre Dame
(Jakarta Local	Kazuhiro Nakamura (CTI	University)
Government; University of	Engineering Co., Ltd.)	
Indonesia)		
Disaster risk reduction	Development of tidal	Women in (Australian) civil
through resilient public	embankment and area	engineering leadership
infrastructure	management after the	Rebecca J. Gravina (RMIT
Maria Catalina E. Cabral	Typhoon Yolanda in	University)
(Philippine Institute of Civil	Philippines	
Engineers, Inc.)	Masaaki Chida (Pacific	
	Consultants Co., Ltd.)	

Day2 (4/17) 11:00 - 12:30		
GS-6-2 & GS-3	GS-1 & GS-5-3	TS2-3-2
Chair: Moonkyung Chung	Chair: Hikari Nakamura	Chair: Natsuhiko Otsuka
(Korea Institute of	(Nagoya University)	(Hokkaido University)
Construction Engineering)		
Basic study on efficiency	Design of steel beams	Sailing route optimization
improvement of road	strengthened using low	for the NSR to minimize the
degradation analysis using	modulus carbon fiber	fuel consumption
floating car data and mobile	reinforced polymers	Hajime Yamaguchi (The
mapping system	Mahendrakumar	University of Tokyo)
Kunihiro Ishii (Aisa Air	Madhavan (Idian Institute	
Survey Co., Ltd.)	of Technology Hyderabad)	
Applying time domain	Effect of crack path on	A semi-supervised sea ice
reflectometry technology to	shear load carrying	SAR image segmentation
measure slope deformation	mechanism of RC beams	strategy based on WGANs
in landslides	Yuta Yamada (Nihon	Yu-Huan Zhao (Fudan
I-Hui Chen (National	University)	University)
Network of large scale	Shear strenthening of RC	Route search system in ice
testing facilities in Korea	beams reinforced by FRP	sea using dynamic window
established by KOCED	grid-PCM	approch
program	Rui Guo (Southwest	Toshiyuki Takagi
Gyeongjung Kim (KOCED	Jiaotong University)	(National Institute of
CMI)		Technology, Kushiro)
Standardization of test	Elimination of transverse	
procedures in construction	reinforcement in new RC	
field of Korea	beam-column joints by	
Taehyeong Kim (KOCED	using highly flowable strain	
CMI)	hardening fiber reinforced	
	concrete (HF-SHFRC)	
	Wen-Cheng Liao (National	
	Taiwan University)	

Day2 (4/17) 11:00 - 12:30		
Investigation of axial force		
effect on the seismic		
response of RC piers using		
real-time hybrid simulation		
Minseok Park (Myongji		
University)		
A novel analysis method of		
SDOF dynamic structure		
response considering soil		
structure interaction by soil		
impedance function		
Chiehcheng Chen		
(National Taipei University		
of Technology)		

Day2 (4/17) 14:00 - 15:30				
TS1-1	TS2-5-2 TS6-4			
Chairs: Dong Soo Kim	Chairs: Hitoshi Tanaka	Chairs: Hironori Kato		
(Korea Advanced Institute	(Tohoku University), II	(The Univeristy of Tokyo),		
of Science and	Won Seo (Seoul National	Le Binh Phan (Vietnam		
Technology), Riki Honda	University)	Japan University)		
(The University of Tokyo)				
Evaluation of seismic	Evaluation of landuse cover	Engineering education for		
coefficients for pseudo	change and climate change	civil engineers in Asia:		
static analysis of gravity	impact to hazard area in	lessons from International		
type quay wall by	Laos PDR	Engineering Program of the		
centrifuge tests	Sengphrachanh	University of Tokyo, Japan		
Dong Soo Kim (Korea	Phrakonkham (Tohoku	Hironori Kato (The		
Advanced Institute of	University)	Univeristy of Tokyo)		
Science and Technology)				
Seismic design methods for	Drone-based tracer tests	Engineering education for		
resilience against intense	for observing the spatio-	civil engineers in Vietnam		
earthquake in Chile	temporal distributions of	Japan University toward a		
Victor Diaz (Ministry of	pollutant spilled into river	sustainable development		
Public Works)	Donghae Baek (Seoul	Le Binh Phan (Vietnam		
	National University)	Japan University)		
Implementation and new	Feasibility of velocity-based	AUN/SEED-Net to develop		
approach for resilience	method for transverse	educational program		
design against extreme	mixing coefficients of 2D	among developing		
events: seismic design of	mixing analysis in natural	countries with Japanese		
highway bridges in Japan	rivers	university		
Shojiro Kataoka	Sung Hyun Jung (Seoul	Tamon Ueda (Hokkaido		
(National Institue for Land	National University)	University)		
and Infrastructure				
Management)				

Day2 (4/17) 14:00 - 15:30				
Strong ground motions to	Study of flow and mixing	Some challenges in		
be employed during the	characteristics in open	designing an educational		
design and performance	channel flow with rigid	curriculum in civil		
analysis of building type of	vegetation	engineering		
structures according to the	Il Won Seo (Seoul	Sudhir Misra (Indian		
New Turkish Seismic Code	National University)	Institute of Technology)		
Beyza Taskin (Istanbul				
Technical University)				
Overview of the state of the	Analysis of regional	Building blocks for quality in		
art in performance-based	characteristics of natural	engineering education		
design of port waterfront	disasters in the Philippines	Paul Louis Mitchell		
structures	Keisuke Ono (CTI	(Centre for Pavement		
Stephen E. Dickenson	Engineering Internatinal	Excellence Aisa Pacific Ltd.)		
(New Albion Geotechnical,	Co., Ltd.)			
Inc.)				

	Day2 (4/17) 14:00 - 15:30	
Hold	GS-1 & GS-5-2	Hold
	Chair: Kolluru V.L.	
	Subramaniam	
	(I.I.T. Hyderabad)	
	Alkali-activated cements:	
	overview on current robustness	
	of the technology	
	Joonho Seo (Korea Advanced	
	Institute of Science and	
	Technology)	
	Evaluation of concrete frost	
	damage depth using	
	thermography	
	Yutaka Takashina (Kobe City	
	College of Technology)	
	Early age behavior of crack	
	movement in RCC base of	
	HMA-RCC composite pavement	
	Tetsya Sok (Gangneung-	
	Wonju National University)	

Day2 (4/17) 14:00 - 15:30			
	Performance of exposed		
	aggregate concrete pavement		
	Jae Hoon Kim (Gangneung-		
	Wonju National University)		

Da3 (4/18) 11:00 - 12:30			
TS7-2	TS5-1	TS2-4	
Chair: Tomohito Yamada	Chair: Tetsuya Ishida	Chair: Shinji Yamaguchi	
(Hokkaido University)	(The Univesity of Tokyo)	(National Institute for Land	
		and Infrastructure	
		Management, MLIT)	
A decision support system	Potential utilizations of off-	Climate change and	
for highway infrastructure	standard fly ashes	countermeasures against	
protection planning against	Somnuk Tangtermsirikul	sediment disaster in Japan	
sea level rise	(Thammasat University)	Taro Uchida (National	
Jinwoo Lee (The Hong		Institute for Land and	
Kong Polytechnic		Infrastructure	
University)		Management, MLIT)	
The analysis of future flood	Application of fly ash and	Overview of current	
risk in Hokkaido, northern	bottom ash from coal fired	landslide hazard zonation	
Japan, using database for	thermal power plants in Sri	mapping methodology	
policy decision making for	Lanka	utilize in Sri Lanka	
future climate change	S. M. A. Nanayakkara	M.A.K. Kumari (National	
(d4PDF)	(University of Moratuwa)	Building Research	
Tomohito Yamada		Organisation)	
(Hokkaido University)			
Climate change adaptation	High-volume utilization of	Hazard mitigation and	
in water sensitive urban	supplementary	preparedness of potential	
design strategies	cementitious materials in	deep-seated landslide and	
Paul Louis Mitchell	concrete buildings toward	debris flow torrent in	
(Centre for Pavement	sustainability	Taiwan: introduction of	
Excellence Asia Pacific Ltd.)	Takafumi Noguchi (The	recent government actions	
	University of Tokyo)	Ching-Ying Tsou (Hirosaki	
		University)	

Da3 (4/18) 11:00 - 12:30				
The analysis of future	Efficient production of	Prompt maximum damage		
heavy rainfall in Hokkaido,	alkali-activated	estimation against sediment		
northern Japan, using	geopolymers from low-	disaster based on sediment		
database for Policy Decision	calcium fly ash	movement magnitude		
making for Future climate	Kolluru V.L.	Shinichiro Hayashi		
change (d4PDF)	Subramaniam (Indian	(Hokkaido University)		
Tsuyoshi Hoshino	Institute of Technology			
	Application of mineral	Estimating end of life for		
	admixtures in hot weather	Sabo dams		
	conditions	Kihwan Lee (University of		
	Shingo Asamoto (Saitama	Yeungnam)		
	University)			
	Current situation on the	The megadisaster of the		
	utilization of industrial by-	mountain region of the Rio		
	products for construction in	de Janeiro State, Brazil,		
	Vietnam	and advances of knowledge		
	ТВА	about debris flows in Brazil		
		Ingrid Ferreira Lima		
		(Federal University of Rio		
		de Janeiro)		
	Multiphase model for			
	predicting temperature-			
	dependent pozzolanic			
	reaction of low-calcium fly			
	ash in cement systems			
	Tetsuya Ishida (The			
	University of Tokyo)			

Day3 (4/18) 11:00 - 12:30				
TS6-5	GS-2	GS-4-1		
Chairs: Mitsuyasu	Chairs: Akiyuki Kawasaki	Chairs: Kuniaki Sasaki		
Iwanami (Tokyo Institute	(The University of Tokyo),	(Waseda University),		
of Technology)	Jinwoo Lee (The Hong	Arnab Jana (Indian		
Thomas W. Smith, III	Kong Polytechnic	Institute of Technology		
(ASCE)	University)	Bombay)		
Enhancing citizens'	Computational calculations	Analysis of basic		
understanding on	of different heavy metal	characteristics of ETC2.0		
importance of infrastructure	binding onto magnetic	probe data		
based on Infrastructure	cored dendrimer	Toshikazu Mathushima		
Health Report	Jae-Woo Park (Hanyang	(Chuo Fukken Consultants		
Mitsuyasu Iwanami	University)	Co., Ltd.)		
(Tokyo Institute of				
Technology)				
Trial version of	Forest fire severity in the	The impact of truck lane on		
Infrastructure Health	2017 Kamaishi Forest Fire	vehicular flow along an		
Report on river sector	using remote sensing and	arterial road in Metro		
Yuji Toda (Nogoya	post-fire observations	Manila		
University)	Grace Puyang Emang	Alexis Morales Fillone		
	(Tohoku University)	(De La Salle University)		
Enhancing citizens'	Model design of	Analysis of vehicle behavior		
understanding on	concentrator photovoltaic	under heavy snowfall using		
importance of infrastructure	with thermal and waste	commercial vehicle probe		
based on Infrastructure	heat recovery system	data		
Health Report	Chi Xu (University of	Hiroshi Inagaki (Fujitu		
Thomas W. Smith III	Florida)	Traffic & Road Data Service		
(ASCE)		Ltd.)		

Day3 (4/18) 11:00 - 12:30				
Infrastructure Health	Dependence of drag	Analysis of requirements of		
Report of JSCE	coefficient on sea spray,	data used for grasping the		
Hikaru Nakamura	raindrop and wave state	situation of urban spaces		
(Nagoya University)	Hiroki Okachi (Hokkaido	and aging of population		
	University)	Takato Uehara (Tokyo		
		City University)		
Australian infrastructure	Heat storage in salinity			
development	aquaculture ponds			
Shalendra Ram (AECOM,	observed in the tropics			
EA)	Akinori Ozaki (Institute of			
	Tropical Agriculture,			
	Kyushu University)			

Day3 (4/18) 11:00 -	Day3 (4/18) 14:00 - 15:30		
GS-6-3	TS7-4 TS5-2		
Chair: Kazuyoshi	Chair: Minoru Yoneda	Chairs: Tadashi Hara	
Tateyama (Ritsumeikan	(Kyoto University)	(Kochi University), Rihong	
Univesity)		Zhang (Ningbo University)	
Next step of worksite model	Quantifying the	Wood utilization in civil	
utilizing ICRT	environmental impacts of	engineering	
Hiroshi Yamamoto	structural elements of	Tadashi Hara (Kochi	
(Komatsu Ltd.)	standard bidge designs	University)	
	Andres Winston C. Oreta		
	(PICE)		
Initatives for the use field	Role of civil engineering in	Development of timber	
robots and AI in	mitigation of climate	guardrail using round logs	
infrastructure management	change - proposal from	of Japanese cedar	
Yasushi Nitta (Public	Japan Society of Civil	Rihong Zhang (Ningbo	
Works Research Institute)	Engineers -	University)	
	Minoru Yoneda (Kyoto		
	University)		
An study on understanding	Carbon footprint	Climate change mitigation	
the behavioral phenomenon	assessment for resilient	potential of wood use in	
of transportation	Infrastructure construction	civil engineering in Japan	
engineering by	using discrete-event	through 2050	
implementation of AI: an	simulation	Chihiro Kayo (Tokyo	
apporach to provide	Jakkawarn	University of Agricultura	
effective solutions of a	Somboonpisan (Kasesart	and Technology)	
complex problem in	University)		
transportation engineering			
Rafiur Rahman Khan			
(European University of			
Bangladesh)			

Day3 (4/18) 11:00 -	Day3 (4/18)	14:00 - 15:30	
Basic study on prepararion	A fundamental study on	Working principles and	
method of road map using	development of	future prospects of timber	
three-dimensional data of I-	construction standard code	pile dykes for alluvial river	
Construction results	considering 4th industrial	management	
Minori Yamada (Tokyo	revolution technology	Hao Zhang (Kochi	
City University)	Yeonggyeong Ju (Korea	University)	
	Institute of Civil		
	Engineering and Building		
	Technology)		
	Role of civil engineering in	Study on liquefaction	
	mitigation of climate	countermeasure technique	
	change - the infrastructure	using logs based on field	
	of renewable energy	investigation and shaking	
	resources	table test	
	Barry Ronald Tonkin (EA)	Masaho Yoshida (National	
		Institue of Technology)	
		An application example of	
		log piling method for	
		liquefaction mitigation and	
		carbon stock	
		Atsunori Numata	
		(Tobishima Corp.)	
		Future perspectives of	
		sustainable bioenergy	
		development in Japan with	
		local woody biomass	
		Chun Sheng Goh	
		(Institute for the Advanced	
		Study of Sustainability,	
		United Nations Univeristy)	

	Day3 (4/18)	14:00 - 15:30	
TS6-13	GS-7	GS-4-2	GS-6-4
Chair: Hiromasa Iwai	Chairs: Tetsuya Ikeda	Chairs: Kuniaki Sasaki	Chairs: Satoshi Kubota
(Nagoya Institute of	(ICHARM), Chjeng-Lun	(Waseda University),	(Kansai University)
Technology)	Shieh (National Cheng	Arnab Jana (Indian	
	Kung University)	Institute of Technology	
Study of failure on civil	Hydrological frequency	Determining high risk road	Using text-mining skills to
engineering	analysis introducing	segments using spatial	establish concept maps for
Hiromasa Iwai (Nagoya	confidence interval based	statistical analysis case	construction fatality
Institute of Technology)	on probability limit method	study: Mount Lebanon	assessment and control
	test	Francesco Rouhana	applications
	Keita Shimizu (Chuo	(Notre Dame University)	Shang-Hsien Hsieh
	University)		(National Taiwan
			University)
Study of failures in civil	Establishment of smart	Street resilience modeling	Basic study on
engineering - a Pakistani	drainage toolbox for	for Beirut disaster	measurement of empirical
	3	Dima Jawad (Notre Dame	knowledge of skilled
perspective	Taoyuan City	`	workers in concrete
Hiba Nuzhat Lodi (The	Hsuan Yu Lin (Sinotech	University)	
Institution of Engineers,	Engineering Consultants,		placement
Pakistan)	Ltd.)		Takuya Yokota (Tokyo
			City University)
	Sampling downscaling using	Optimal inspection,	Visualization system of
	pattern recognition: A case	maintenance, and	suspended load area for
	for Baiu rainfall over	reconstruction policies for	crane operator
	northern Kyushu	pavement system under	Masaya Nakahara (Kansai
	Dzung Nguyen-Le	model uncertainty	University)
	(Hokkaido University)	Jinwoo Lee (The Hong	, , , ,
	,,,	Kong Polytechnic	
		University)	
	Rainfall-runoff analysis	Cable protecting system	Underwater unmanned
	considering uncertain	using DAS (Distributed	construction machine
	conditions based on	Acoustic Sensing) and	system for port and airpot
	stochastic process theory	FOC(Fiber Optic Cable)	Muneo Yoshie (Port and
	Daiwei Cheng (Chuo	Ahri Lee (AP Technologies)	Airport Research Institute)
	University)		

Day3 (4/18) 14:00 - 15:30	
Application of SEC-H	Y21 On exploring optimal route
Model on tsunami	about bulldozer spreading
simulations generate	ed by work using deep learning
underwater volcanic	reinfocement learning with
explosions or landsli	des bulldozer spreading smilator
Arthur T.H. Perng	Daisuke Tajima (Kajima
(Sinotech Engineerin	ng Corp.)
Consultants, Ltd.)	