

Day 1: 15th, September 10am-						
Opening 15th, September 10am						
Keynote Lecture 1: Prof. Tetsuya Sumi: Challenges on Flood and Sediment Management of dams under changing climate in Japan						
Keynote Lecture 2: Dr. Jonathan Nelson: A General Lagrangian Tracking Methodology for Riverine Flow and Transport						
Keynote Lecture3: Prof. Xudong Fu: Morphodynamics of alluvial-bedrock rivers subject to landslide dams in Tibet Plateau						
1 horu break						
Room1	Room2	Room3	Room4	Room5	Room6	
Session 1: 15th, September 1:30pm-						
Session	Hydraulic Structure (1)	River morphodynamics (2)	Flood prediction (1)	Environmental hydraulics (General)	Histroal water project: Hydraulic structure	Tsunami
Chair	Michio Sanjou, Kyoto University	Yasuharu Watanabe, Kitami Institute of Technology	Makoto Nakatsugawa, Muroran Institute of Technology	Won Kim, Korea Institute of Construction Technology	Hyoseop Woo, Gwangju Institute of Science and Technology	Radianta Triatmadja University of Gadjah Mada
1:30-1:45pm	APPLICATION OF RIVER BANK PROTECTION WITH PRIMARY VELOCITY REDUCTION FUNCTION TO CURVED FLOW Katsutoshi Watanabe, Nozomu Oonaka	HYDRO-GEOMORPHOLOGICAL FORMATION PROCESSES OF SPAWNING HABITATS FOR AYU FISH REQUIRED UNDER TURBID CONDITIONS BY DAM IMPACTS IN THE TENRYU RIVER Makoto Hyodo, Shinji Takahashi, Hiromi Yamasaki, Yasuhiro Takemon, Tetsuya Sumi	PROBABLE MAXIMUM FLOOD INUNDATION SIMULATION FOR RIVERS IN TOYAMA PREFECTURE, JAPAN Ryusei Yagi, Shuichi Kure, Shouma Ishikawa, Bambang Adhi Priyambodho	THE SWIMMING BEHAVIOR OF TRIBORODON HAKONENSIS IN STREAM-TYPE FISHWAY WITH THE SLOPE OF 1/10 Taisei Sato, Tomoaki Funakoshi, Munezuki Aoki	EFFECT OF MASONRY EMBANKMENT LOCATED ON MOUNTAIN SLOPE CALLED AS "IGA-BANE" Taisuke Ishigaki, Ruiji Kawanaka, Michik Hayashi	CHANGES IN THE FLOW STRUCTURE AND ENERGY LOSS OF A TSUNAMI CURRENT THROUGH FOREST WITH A GAP Naveed Anjum, Norio Tanaka
1:45-2:00pm	FLOW DETAILS AROUND PILE-GROUP GROYNES Obaidullah Safie, Akihiro Tominaga	RIVERBED INCISION IN THE VIETNAMESE MEKONG DELTA DUE TO ALTERED FLOW REGIME AND SEDIMENT LOAD Doan Van Binh, Sameh Kantoush, Tetsuya Sumi, Nguyen Phuong Mai, La Vinh Trung	UNDERGROUND INUNDATION BY SIMULTANEOUS PLUVIAL AND FLUVIAL FLOODING IN URBAN AREA Mitsuhiro Terada, Taisuke Ishigaki, Taira Ozaki, Keiichi Toda	THREE-DIMENSIONAL MODELLING OF FLOW IN A WEIR AND POOL TYPE FISHWAY WITH ORIFICES FOR DESIGN W.M.L.K.ABEYRATNE, P.S.WEERASINGHE and S.B.WEERAKOON	HYDRAULIC STUDY ON LEVEE ARRANGEMENT ON KUROBE ALLUVIAL FAN CONSTRUCTED IN THE EARLY 19TH CENTURY Tadaharu Ishikawa, Hiroshi Senoo	ASSESMENT OF TSUNAMI PREPAREDNESS MEASURES IN EAST COAST OF SRI LANKA BASED ON 2004 TSUNAMI EVENT Renee Josiah, D.P.C. Laknath, S. Araki
2:00-2:15pm	EXPERIMENTAL INVESTIGATION ON ARTIFICIAL CONTROL AGAINST PERIODICALLY DEFLECTED FLOW IN SUBMERGED HYDRAULIC JUMP Youchi Yasuda, Shintaro Narazaki	VARIABILITY IN STAGE-DISCHARGE RELATIONSHIPS IN RIVER REACH WITH BED EVOLUTIONS Robin Kumar Biswas, Shinji Egashira, Daisuke Harada	DEVELOPMENT OF DYNAMIC FLASH FLOOD HAZARD INDEX (OFFHI) IN WANG RIVER BASIN, THAILAND Sathit Chantip, Nat Marjang, Kobkiat Pongput	RIVERBED VARIATION AS INFLUENCED BY NATURAL AND HUMAN-INTERFERED PHENOMENA OF GENDOL RIVER, MT. MERAPI AREA, INDONESIA Djoko Legono, Paula Swastika, Bambang Yulistyanto, Radianta Triatmadja, Intan Supraba	SEDIMENT BYPASS TUNNEL OF THE OLDEST MASONRY DAM IN JAPAN ~ Kobe Nunobiki Dam Bypass System and Dam Resiliency Upgrade~ Makoto MATSUSHITA	HIGH RESOLUTION NUMERICAL MODELLING OF TSUNAMI INUNDATION USING QUADTREE METHOD AND GPU ACCELERATION Shuang Gao, Greg Collicutt, William J. Syme, Philip Ryan
2:15-2:30pm	COMPUTATIONS OF THE FLOWS OVER THE WEIR CHANGING FROM THE SUBMERGED TO SURFACE FLOWS Seongwook Choi, Sung-Uk Choi	A ONE-DIMENSIONAL HYDRO-SEDIMENT-MORPHODYNAMIC MODEL FOR THE CHANGJIANG WATERWAY Chunchen Xia, Hui Liang, Zhixian Cao, Songbai Peng, Youwei Li, Qifeng Liu, Wei Zhang	FLOOD RISK ANALYSIS FOR THE ISHIKARI RIVER CONSIDERING RAINFALL PATTERNS USING DOWNSCALED D4PDF DATA NGUYEN THANH THU, Makoto Nakatsugawa, Tomohito Yamada, Tsuyoshi Hoshino	MIXING CHARACTERISTICS OF 45° INCLINED DUCKBILL DENSE JETS IN CO-FLOWING CURRENTS Mingtao Jiang, Wei Chen, Adrian Wing-Keung Law	DEVELOPMENT AND MANAGEMENT OF RIVER FLOOD CONTROLS AND WATER UTILIZATION FACILITIES IN THE MIDDLE AND LOWER REACHES OF THE ISHIKARI RIVER OVER 100 YEARS - TRANSFORMATION OF COLD REGION PEATLANDS INTO ONE OF JAPAN'S TOP RICE CULTIVATION AREAS, LEADING TO THE FORMATION OF A MAJOR ECONOMIC ZONE - Hideto Kon, Takashi Inoue, Yasuyuki Hirai, Kazumasa Nakamura, Satomi Kawamura	INLAND FOREST MODEL DESIGN CONSIDERING TSUNAMI BORNE LARGE DRIFTWOOD Rowan Sachika De Costa, Norio Tanaka
2:30-2:45pm	PERFORMANCE EVALUATION OF BANDAL-LIKE STRUCTURES FOR SEDIMENT MANAGEMENT IN BRAIDED JAMUNA RIVER Md Ashiqur Rahman, MD Munzir Rahman, Shampa, Anisul Haque, MD Maruf Dustegir, Nusrat Jahan Nishat, Hajime Nakagawa, Motaher Hossain	VEGETATION EFFECTS ON THE LATERAL CHANNEL MIGRATION DURING 2016 AUGUST FLOODS IN THE OTOFUKE RIVER Tomoko Kyuka, Satomi Yamaguchi, Kazunori Okabe, Yasuyuki Shimizu, Hideto Kon	COMBINING TWO ALGORITHMS AS A TRANSITION RULES FOR CA-BASED INUNDATION MODEL Obaja Triputera Wijaya, Tsun-Hua, Yang	STUDY ON A MONITORING METHOD FOR SEAGRASS BEDS USING ENVIRONMENTAL DNA Maiko Akatsuka, Yuriko Takayama, Edwin Muechebve, Kazunori Ito, Tomohiro Kuwae, Kenta Watanabe, Toshifumi Minamoto	A GLIMPSE OF THE WATER MANAGEMENT POLICY IN THE CHOSUN DYNASTY (1392-1910) IN KOREA THROUGH THE ASPECT OF EMBANKMENTS Hyoseop Woo, Byungman Yoon, Young-Uk Kim, Ha-Young Jang	THE EFFECT OF LARGE DEBRIS DAMMING ON SCOUR BEHIND A SEAWALL DUE TO TSUNAMI Warniyati Seimahaira, Radianta Triatmadja, Nur yuwono
2:45-3:00pm	CAVITATION INTENSITY IN GLASS BEAD-WATER MIXTURES BASED ON IODOMETRIC TITRATION Dingkang Xia, Kunpeng Su, Jianhua Wu, Xinming Zhang	MORPHODYNAMICS OF A SMALL MEANDERING RIVER IN THE AMAZON BASIN FROM LANDSAT AND UAV Kattia Rubi Arnez Ferrel, Jonathan Nelson, Yasuyuki Shimizu	CONVOLUTIONAL NEURAL NETWORK (CNN)-BASED TRANSFER LEARNING IMPLEMENTED TO TIME-SERIES FLOOD FORECAST Nobuaki Kimura, Daichi Baba	DIATOMS AND DINOFAGELLATES DISTRIBUTION DURING DRY SEASON IN MARCROTIDAL TANINTHARYI RIVER ESTUARY, MYANMAR Lett Wai Nwe, Gubash Azhikodan, Katsuhide Yokoyama, Masashi Kodama, Nay Oo Hlang, Nyo Nyo Tun	INVESTIGATION OF HYDRAULIC CHARACTERISTICS OF ANCIENT INLET SLUICE BARREL IN NUWARA WEWA RESERVOIR Ganila Paranavithana, J.M.W.S. Jayasundara, H.W.G. Harindra, W.D.N. Ranasinghe, R.S. Ranasinghe	MEASUREMENT AND CALCULATION OF BORE PROPAGATION IN MEANDERING RIVER Daisuke Kobayashi, Tatsuhiko Uchida, Yoshihisa Kawahara
30 min break						
Session 2: 15th, September 3:30pm-						
Session	Hydraulic structure (2)	River basin management	Flood prediction (2)	Water quality	Historical water project: Water management	Tsunami and storm tides
Chair	Yasuhiro Yoshikawa, Kitami institute of Technology	Atsuhiko Yorozuya, Public Works Research Institute	Takuya Inoue, Civil Engineering Reseach Institute	Masanori Nunokawa, Civil Engineering Reseach Institute	Gregory De Costa, Open Polytechnic of New Zealand	Sannasiraj, AS, Indian Institute of Technology Madra
3:30-3:45pm	PROPOSAL OF SLOPING ENERGY DISSIPATOR WITH STACKED BOULDERS IN LOW DROP STRUCTURES Youchi Yasuda, Keito Masui	DISCHARGE ESTIMATION BY STIV COMBINED WITH THE MAXIMUM ENTROPY METHOD Takuya Hamada, Ichiro Fujita, Kojiro Tani, Keisuke Nakayama	RESEARCH ON DAM INFLOW PREDICTION DURING SEVERE FLOOD USING MACHINE LEARNING METHODS Makoto Nakatsugawa, Riko Sakamoto, Yosuke Kobayashi	IMPROVEMENT OF WATER QUALITY USING A TRIANGULAR SOLAR STILL Amir Asyraf, Hiroaki Terasaki, Kenji Furuchi, Shunya Kato, Tomohiro Umemura, Teruyuki Fukuhara, Mika Hasegawa.	A REVIEW OF RECENT RESTORATION OF THE CHUGUGI RAINFALL DATA (1770-1910) IN KOREA Hyeonjun Kim	HINDCAST OF TYPHOON JONGDARI AND NON-TIDAL SEA LEVEL RESIDUALS IN MIKAWA BAY USING FDDA IN WRF Ryo Nakamura, Kyeong Ok Kim, Shigeru Kato, Ryota Nakamura, Takumi Okabe
3:45-4:00pm	THE EFFECT OF GRAIN SIZE IN DIKE BREACHING DUE TO OVERTOPPING FLOWS Shinichiro Onda, Koichi Shimizu, Yosuke Higo, Takashi Hosoda	APPLICATION OF OPTICAL FLOW TECHNIQUES FOR RIVER SURFACE FLOW MEASUREMENTS Junpei Yagi, Kojiro Tani, Ichiro Fuiita, Keisuke Nakayama	FLOOD SUSCEPTIBLE ANALYSIS AND INUNDATION RISK MAPPING FOR A REGULATED RIVER, CASE STUDY: SG. TAJAR Eny Suria A Jalil, Shanker Kumar Sinnakaudan, Mukhlis Zainol	CHANGES IN WATER QUALITY DUE TO ANTHROPOGENIC ACTIVITIES AND FEASIBLE BIOLOGICAL NITROGEN REMOVAL METHODS FOR SALINE WATER-CASE STUDY IN NEW ZEALAND Yashika De Costa, Wei-Qin Zhuang	HISTORICAL WATER PROJECTS IN KYUSHU DISTRICT, JAPAN, AND A CURRENT PROJECT IN AFGHANISTAN Toshiyuki MORIYAMA	NUMERICAL ANALYSIS OF STORM TIDES ALONG THE NORTHERN COAST OF CAGAYAN, PHILIPPINES IMEE BREN VILLALBA
4:00-4:15pm	DAMAGE TO BRIDGES DUE TO MEDIUM SCALE FLOODING: A CASE STUDY OF THE IWANE OHASHI BRIDGE Tomoya Matsuda, Yasuharu Watanabe	BASIC STUDY ON DRAINAGE METHOD FROM A RETARDING BASIN TO THE UJI RIVER Yoshiya OGAWA, Masanori Sera, Shota Michikata, Tomoki Yamamoto, Akitsugu Kajitani, Yuko Ishida	FLOOD FORECAST BASED ON DEEP LEARNING USING DISTRIBUTION MAP OF PRECIPITATION Go OHNO, Kazunori Ito	LONG-TERM CHANGE OF RIVER WATER TEMPERATURE FLOWING INTO RESERVOIRS IN JAPAN Yusuke Kume, Makoto Umeda	A TRADITIONAL FLOOD MANAGEMENT TECHNOLOGY IN KASE RIVER BASIN, JAPAN Koichiro Ohgushi	STORM SURGE FORECASTING AND INUNDATION ESTIMATION DURING TROPICAL STROM PABUK 2019 IN THE SOUTHERN COAST OF THAILAND WATIN THANATHANPHON, NARONGRIT LUANGDILOK, KACHAPOND CHETTANAWANIT, PIYAMARN SISOMPHON

4:15-4:30pm	CAVITATION DAMAGE IN PARTICLE-LADEN LIQUIDS WITH CONSIDERING PARTICLE CONCENTRATION AND SIZE Kunpeng Su, Jianhua Wu, Dingkang Xia, Zhiyu Ding	ANALYZING LONG-TERM CHANGES IN WATER DISCHARGE AND SOIL CONDITION OF OGOUCHI RESERVOIR CATCHMENT Charles John C. Gunay, Chika Nakagawa, Katsuhide Yokoyama	INUNDATION ANALYSIS MODEL ON CARTESIAN COORDINATE SYSTEM CONSIDERING INFLOW AND OUTFLOW INTO HOUSES MAKOTO TAKEDA, Masaya Abe, Yusuke Nakajima, Masataka Murase, Naoki Matsuo	WATER TEMPERATURE SIMULATION OF RIVERS IN INDONESIA Intan Supraba, Istianto, Radianta Triatmadja, Djoko Legono	A HISTORY OF WATER IN THE KINGDOM OF WATER, TOYAMA, JAPAN Taichi Tebakari	ENERGY REDUCTION IN TSUNAMI THROUGH A DEFENSE SYSTEM COMPRISING AN EMBANKMENT AND VEGETATION ON A MOUND Md Abedur Rahman, Norio Tanaka, A H M Rashedunnabi, Yoshiya Igarashi	Poster
4:30-4:45pm	HYDRAULICS OF 3D-AERATOR WITH LATERAL ENLARGEMENTS ON SPILLWAYS Fei Ma, Jian-Hua Wu, Kunpeng Su, Jianrong Xu	HYDRAULICS SIMULATION OF RUBBER DAM FOR OPERASIONAL AND EMERGENCY RESPOND GUIDELINES IN WEST FLOOD CANAL, SEMARANG, INDONESIA Wahyudi S.I., Intan Nurcahyani, Henny Pratiwi Adi	APPLICATION OF IRIC SOFTWARE FOR FLASH FLOOD DISASTER PREDICTION IN LAOS AND THAILAND Wongsa Sanit, Uruya Weesakul	STATISTICAL ANALYSIS OF DECADEAL WARMING AND COOLING TRENDS IN EQUILIBRIUM WATER TEMPERATURE IN JAPAN Hitoshi Miyamoto, Kohei Kamimura	HISTORICAL RIVER COURSE CHANGES AND PADDY FIELDS DEVELOPMENTS IN THE ARAKAWA RIVER BASIN, JAPAN AND THE ROLE OF SECOND EMBANKMENTS IN THE RECENT 2019 FLOODING EVENT Norio Tanaka, Hayato Kajitani, Kengo Fushimi	STABILITY OF SAND TUBE SEAWALL AS A TSUNAMI PROTECTION Radianta Triatmadja, Warniyati, Djoko Legono, Intan Supraba, Nur Yuwono	
4:45-5:00pm	COMBINED SEEPAGE BENEATH GRAVITY HYDRAULIC STRUCTURES BASED ON DROPPED BED AHMED. M. ABDELRAZEK, MOHAMMAD. A. ABOUROHIEM	HYDRAULIC SIMULATION OF TIDAL FLOOD HANDLING OF PABEAN DRAINAGE SYSTEM IN PEKALONGAN, INDONESIA Henny Pratiwi Adi, Wahyudi S.I., Jonathan Lekkerkerk	DEEP LEARNING APPROACH FOR PREDICTION OF WATER LEVEL IN RIVERS Takehiko Ito, Ryo Kaneko, Tooya Kataoka, Shio Onomura, Yasuo Nihei	DAILY BEACH WATER QUALITY FORECAST: 3D DETERMINISTIC MODEL VS STATISTICAL MODEL David KW Choi, Joseph H.W. Lee		IMPROVED NUMERICAL SIMULATION AGAINST OVERFLOW FROM EMBANKMENT UNDER STEADY AND UNSTEADY FLOW CONDITIONS BY CONSIDERING NON-HYDROSTATIC PRESSURE Yoshiya Igarashi, Norio Tanaka	
5:00-5:15pm			FLASH FLOOD PREDICTION USING HIGH RESOLUTION SATELLITE RAINFALL DATA IN THE SOUTHERN PART OF THAILAND Theerapol Charoensuk, Apimook Mooktaree, Sathit Chantip, Ticha Lolupiman, Watin Thanathanphon, Narongrit Luangdilok, Pivamarn Sisomphon	PREDICTION OF LEAD CONCENTRATION AT CONSUMER TAP OF LEAD CONTAMINATED WATER SUPPLY SYSTEM IN HIGH-RISE BUILDINGS Lu CHANG, Shu Ning Chan, Joseph hun Wei Lee			

30 min break

Session 3: 15th, September 5:30pm-

Session	Sediment transport (1)	Irrigation and Drainage			Water resources engineering and management	
Chair	Sung-UK Choi, Yonsei University	Takashi Inoue, Hokkaido University Kazumasa Nakamura, ES			Shaohua Marko HSU, Feng Chia University	
5:30-5:45pm	THREE-DIMENSIONAL NUMERICAL SIMULATION OF SEDIMENT CONTROL AT LATERAL DIVERSION Kazuyuki Ota, Takahiro Sato	IMPACT OF CLIMATE CHANGE ON TIDAL IRRIGATION CASE STUDY: TERANTANG IRRIGATION UNIT, INDONESIA Maya Achyadi, Koichiro Ohgushi, Toshihiro Morita			STUDY ON ASSESSMENT OF FLOOD DISASTER LOSS IN TAIHU LAKE BASIN Weiwei Shao, Xin Su, Jiahong Liu Zhiyong Yang, Chao Mei, Zhaohui Yang	
5:45-6:00pm	EROSION RATE OF BED SEDIMENT IN TERMS OF ENTRAINMENT CONCEPT Daisuke Harada, Egashira Shinji	FEASIBILITY OF COASTAL RESERVOIRS FOR FRESH-WATER STORAGE IN NEW ZEALAND Induka Werellagama, Gregory De Costa, binil Davis			SNOW COVER MAPPING FOR SUSTAINABLE WATER RESOURCE MANAGEMENT IN THE BALKHAB RIVER BASIN IN AFGHANISTAN USING MODIS SATELLITE NORMALIZED DIFFERENCE SNOW INDEX (NDSI) PRODUCTS Hussainzada Wahidullah, Han Soo Lee, Vinayak Bhanage	
6:00-6:15pm	TIDAL CURRENTS AND SAND BAR EVOLUTION IN SITTANG RIVER ESTUARY, MYANMAR Tanjir Saif AHMED, Shinji Egashira, Daisuke Harada	BREAKPOINT REACTION OF CHLORINE JETS IN AMMONIA NITROGEN AND TREATED PRIMARY EFFLUENT: MODELING AND EXPERIMENTAL STUDY SHU NING CHAN, Q.S. Qiao, J.H.W. Lee			IMPACT OF DECREASING GLACIER COVER ON STREAMFLOW OF THE GILGIT RIVER BASIN, KARAKORAM, PAKISTAN Sohaib Baig, Takahiro Sayama, Kaoru Takara	
6:15-6:30pm	BEDLOAD DISCHARGE MEASUREMENT IN ACTUAL RIVER WITH MBES AND ADCP Koichi Tsuchida, Masahiro Hashiba	REDUCING ENERGY CONSUMPTION IN PRESSURIZED IRRIGATION NETWORKS USING NEURAL NETWORKS-SOMS CLUSTERING TECHNIQUE Ahmed M. Abdelrazek, Engy M. Khalil, Farouk A El-Fitany, Mohammad, A. Abourohiem			EVALUATION OF IMPACT OF CLIMATE CHANGE AND RURAL DEVELOPMENT ON RAINFALL-RUNOFF IN A SOUTHEAST ASIAN WATERSHED BY A DISTRIBUTED MODEL INCORPORATED WITH TANK MODELS FOR SEVERAL LAND USES Asari Takada, Kazuaki Hiramatsu, Ngoc Anh Trieu, Masayoshi Harada, Toshinori Tabata	
6:30-6:45pm	NON-EQUILIBRIUM BED VARIATION ANALYSIS IN STONY-BED RIVERS CONSIDERING CHANGES IN THE BED SURFACE STRUCTURE: APPLICATION TO ENLARGEMENT MECHANISM OF THE MONOBE RIVER MOUTH DUE TO FLOODS Yoshiharu Takemura, Shoji Fukuoka	IMPLEMENTATION OF THE ANN MODEL TO A COMPLICATED DRAINAGE SYSTEM Nobuaki Kimura Ikuo Yoshinaga, Kenji Sekijima Issaku Azechi, Daichi Baba			RESEARCH OF INITIAL WATER RIGHTS ALLOCATION IN LONG-DISTANCE WATER TRANSFER PROJECT Ting Wang, Yu Liu	
6:45-7:00pm	FACTORS AFFECTING THE CONTINUITY OF RIVER BED ELEVATION AT THE SLIT TYPE CHECK DAM Sayumi Katayama, Yasuharu Watanabe, Taiki Kibuchi	TRACING CROP WATER DEMAND IN THE LOWER PING RIVER BASIN, THAILAND USING CLOUD-BASED IRRISAT APPLICATION Khin Myar Kyaw, Arreya Rittima, Yutthana Phankamolsil, Allan Sriratana Tabucanon, Wudhichart Sawangphol, Jidapa Kraisingka, Yutthana Talaluxmana, Varawoot Yudhivanich			EXPLORING THE GROUNDWATER HYDROGRAPHS OF CHOU-SHUI CHI ALLUVIAL FAN BY LINEAR SIGNAL MODEL (LSM) OUEDRAOGO ABDOUL RACHID, Shaohua Marko Hsu, Yu-Wen Chen	
7:00-7:15pm	MORPHOLOGICAL COMPUTATION OF A CASCADE SYSTEM OF DAMS USING DELFT3D-FM COUPLED WITH A REAL-TIME CONTROL TOOL Sanjay Giri, Haoxi Huang, Amgad Omer, Yuichi Kitamura	ASSESSMENT OF IRRIGATION PERFORMANCE OF SEKAMPUNG BATANGHARI IRRIGATION AREA, LAMPUNG PROVINCE, INDONESIA Dyah Indriana Kusumastuti, Dwi Jokowinarno			SALINITY DYNAMICS UNDER SEA LEVEL RISE SCENARIOS IN THE RED - THAI BINH RIVER DELTA, VIETNAM NGUYEN THI HIEN, Nguyen Hai Yen, Matteo Balistrocchi, Vu Minh Cat, Roberto Ranzi	

Day 2: 16th, September 10am-						
Keynote Lecture 4: Prof. M. Levent Kavvas Title: Stochastic Saint Venant's Equations for Unsteady Open Channel Flow: Modeling their Time-Space Evolving Probability Distributions						
Keynote Lecture 5: Prof. I.W. Seo Title: Mixing in Rivers - Dispersion and Beyond						
Keynote Lecture 6: Prof. TJ Chang Title: Perspective of Urban Real-Time Pluvial Inundation Prediction						
30 min break						
Room1	Room2	Room3	Room4	Room5	Room6	
Session 4: 16th, September 12:00pm-						
Session	Sediment transport (2)	River engineering (General)	Disaster prevention engineering	Substance transport	Extreme weather (1)	
Chair	Mahesh Patel, National Institute of Technology Jalandhar	Ryota Tsubaki, Nagoya University	Norihiro Izumi, Hokkaido University	Ryosuke Akahori, Aichi Institute of Technology	Sanit Wongsajit, King Mongkut's University of Technology Thonburi	
12:00-12:15p m	CAN A MEANDER CUTOFF-INDUCED CHANNEL DEGRADATION BE ALTERNATIVE FOR THE CHANNEL DREDGING? CASE STUDY FOR THE HUALLAGA RIVER, PERU Kensuke Naito, Toshiaki Iwasaki, Leo Guerrero, Henry Valverde, Yulissa Estrada, Jorge D. Abad	EXTRACTION OF HAZARDOUS LOCATIONS IN MARCH, 2018 HOKKAIDO ICE JAM FLOOD Taro Koike, Yasuhiro Yoshikawa, Hiroshi Yokoyama	HYDROLOGIC AND HYDRAULIC MODELING OF PANAY RIVER UNDER TROPICAL STORM BOLAVEN 2018 RAINFALL EVENT FOR FLOOD MAPPING OF PONTVEFDRA, CAPIZ, PHILIPPINES IMEE BREN VILLALBA, Warren Gabayeron, Dominic Bautista	IN-SITU ESTIMATION FOR SPATIAL AND TEMPORAL VARIATION OF HYDRAULIC CONDUCTIVITY IN A NEWLY CREATED GRAVEL BAR ENBANG XIAO, Yasuhiro Takemon, Sohei Kobayashi, Karim Ibrahim Ahmed, Tetsuya Sumi	WEATHER PROJECTIONS AND DYNAMICAL DOWNSCALING FOR THE REPUBLIC OF PANAMA: EVALUATION OF IMPLEMENTATION METHODS VIA GCMPII ACCELERATION Reinhardt Pinzon, Michel Muller, Toshiyuki Nakaegawa, Javier Sanchez-Galan, Manuel Ujaldon, Jose Fabrega	
12:15-12:30p m	SUSPENDED MOVEMENT OF POLLUTANT AND SEDIMENT IN OPEN CHANNEL FLOW AS STOCHASTIC PROCESS Geraldo Wilson Junior, Cid Da Silva Garcia Monteiro	EXPERIMENTAL STUDY ON PROCESS OF EXFOLIATION FROM DRIFTWOODS IN FLOOD AT OMOTOGAWA RIVER Junya Taniguchi, Kazuya Watanabe, Noritoshi Saito	OPTIMAL RESERVOIR FLOOD CONTROL CONSIDERING LARGE FLOODS BASED ON RAINFALL-RUNOFF-INUNDATION ANALYSIS Maki Iwamoto, D. Nohara, Y. Takemon, T. Koshiba, T. Sumi	HEAT TRANSFER MODEL OF A LINING BOREHOLE GROUND HEAT EXCHANGER UNDER GROUNDWATER FLOW Yosuke Suzuki, Hiroaki Terasaki, Teruyuki Fukuhara, Akira Saida, Masahiro Kusama, Haruki Taniguchi, Masato Tanaka	NUMERICAL SIMULATION OF RUNOFF GENERATION AND INUNDATION PROCESS OF AN EXTREME PRECIPITATION EVENT IN NEPAL ROCKY TALCHABHADEL, Hajime Nakagawa, Kenji Kawaike, Kazui Yamanoi, Herman Musumari, Tirtha R. Adhikari, Raikaram	
12:30-12:45p m	SEDIMENTATION OF A NON-SPHERICAL SOLID PARTICLE UNDER INFLUENCES OF FLOW DISTURBANCES Yasuo HATTORI, Hitoshi Suto, Keisuke Nakao, Kiyoshi Toshida, Mitsuharu Nomura	APPLICATION OF HIGHER ORDER BATHYMETRY REPRESENTATION IN FIXED GRID SHALLOW WATER SOLVERS Shuang Gao, Greg Collicutt, William J. Syme	NUMERICAL SIMULATION OF FLOOD MITIGATION EFFECTS OF AN ASSUMED RETARDING BASIN Kenji Kawaike, Hajime Nakagawa, Nanae Watanabe	ESTIMATION OF GROUNDWATER RECHARGE USING WETSPASS MODEL IN THE PHANOM THUAN-SONG PHI NONG-BANG LEN OPERATION AND MAINTENANCE PROJECTS, THAI AND PATTARAPONG TEERAPUNYAPONG, Yutthana Phankamolil, Areeya Rittima, Yutthana Talaluxmana, Allan	PERFORMANCE OF A SMALL-COMPACT X-MP RADAR TO MONITOR EXTREME RAINFALL EVENT ON 7 JULY 2018 Magfira Syarifuddin, Mariko Ogawa, Haruhisa Nakamichi, Satoru Oishi, Masato Iguchi	
12:45-1:00pm	EXPERIMENTAL INVESTIGATION OF POROSITY AND VOLUME OF SEDIMENT MIXTURE IN STRAIGHT OPEN CHANNEL FLOWS Yusuke Hayashi, Tatsuhiko Uchida, Yoshihisa Kawahara	STUDY ON NUMERICAL SIMULATION OF FLOW STRUCTURES IN A CURVED OPEN CHANNEL Fiky Purwa Lugina, Tatsuhiko Uchida, Yoshihisa Kawahara	A STUDY ON THE FLOOD CONTROL MEASURES BY EXISTING DAMS IN THE KASE RIVER BASIN IN CONSIDERATION OF GLOBAL WARMING Konan Sakamoto, Hideo OSHIKAWA, Akira Tai, Akihiro Hashimoto, Toshimitsu Komatsu	TRANSPORTATION PATHWAYS OF LAND SOURCE BASED MICROPLASTICS INTO THE MARINE ENVIRONMENTS: THE CONTEXT OF RIVERS A. H. M. ENAMUL KABIR, Masahiko Sekine, Tsuyoshi Imai, Koichi Yamamoto	HOT SPOT OF CLIMATE EXTREME EVENTS (FLOODS AND DROUGHTS) IN THAILAND FOR A CHANGING CLIMATE Sawitree Rojpratak, Chaitawat Sudprasert, Thanob Arlbarg, Seree Supharatid	
1:00-1:15pm	DEVELOPMENT OF BED VARIATION CALCULATION METHOD CONSIDERING NONEQUILIBRIUM SEDIMENT MOTION AND INTERACTION BETWEEN BED LOAD AND SUSPENSION: APPLICATION TO RIVER MOUTH SANDBAR WITH LARGE-SCALE TOPOGRAPHIC CHANGES DUE TO FLOOD Takahisa Gotoh, Shoji Fukuoka	DETECTION METHOD FOR VULNERABLE POINTS OF RIVERBANK EROSION AGAINST LARGE FLOODS Fumiya Yagi, Tastuhiko Uchida, Yoshihisa Kawahara	A SUITABLE RISK INDEX FOR EVALUATING BRIDGE DAMAGE IN THE MISASA RIVER CAUSED BY THE 2018 WESTERN JAPAN FLOODS Takashi INOUE, Yuka Yamamura, Yasuo Nihei	FIELD OBSERVATIONS OF VERTICAL PROFILES OF MICROPLASTIC CONCENTRATIONS IN A RIVER Shunsuke Kobayashi, Tomoya Kataoka, Hayata Miyamoto, Yasuo Nihei	PROJECTION FOR FUTURE CHANGE OF CONFIDENCE INTERVAL AND PREDICTION INTERVAL OF EXTREME RAINFALLS BASED ON BAYESIAN METHOD USING A LARGE ENSEMBLE DATA SET Keita Shimizu, Tadashi Yamada, Tomohito Yamada	
1:15-1:30pm	A SEDIMENT TRANSPORT MODEL CONSIDERING POROSITY VARIATION OF SEDIMENT MIXTURE COUPLED WITH A EULERIAN DEPOSITION MODEL Nao Nakashima, Tatsuhiko Uchida, Yoshihisa Kawahara	FLUME STUDY ON DRIFTWOOD CAPTURING SYSTEM USING RECTANGULAR EMBAYMENT ZONE TAKAOKI OKAMOTO, Michio Sanjou	A Case Study of Flood Modeling with Adaptive Mesh Refinement Wentao Gong, Yasuyuki Shimizu, Toshiaki Iwasaki	THE IMPACTS OF MICROPLASTIC POLLUTION ON FRESHWATER FISHES IN JAPAN'S KOMAOI RIVER AND TAMA RIVER Saori Oshiro, Naoko Okuyama, Tomoya Kataoka, Arata Mukotaka, Yasuo Nihei		
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Session 5: 16th, September 2:30pm-						
Session	Sediment transport (3)	Advancing Co-Design of Integrated Strategies with Adaptation to Climate Change in Thailand (ADAP-T)	Disaster information systems	Eco-hydraulics and management (1)	Extreme weather (2)	Ports, Coastal Engineering and Management (1)
Chair	Chang-Lae Jang, Korea National University of Transportation	Masashi Kiguchi, University of Tokyo	Kazuaki Ohtsuki, Yamanashi University	Tetsuya Oishi, Civil Engineering Research Institute	Ting Fong May CHUI, The University of Hong Kong	Pengzhi Lin, Sichuan University
2:30-2:45pm	EFFECT OF SHEET LAYER ON THE FLOW CHARACTERISTICS IN AN ALLUVIAL CHANNEL Anurag Sharma, Mahesh Patel, Bimlesh Kumar	STUDY OF ADAPTATION MEASURES TO CLIMATE CHANGE ON URBAN AREA IN BANGKOK, THAILAND Thidarat Komkong, Sanit Wongsajit, Shinichiro Nakamura	AN INTELLIGENT FLOOD EVACUATION MODEL BASED ON DEEP LEARNING OF VARIOUS FLOOD SCENARIOS Mengtong Li, Tokiyoshi Hosono, Tomoharu Hori	FLOOD CONTROL EFFECT AND HABITAT CREATION IN THE MIDDLE BASIN OF THE YODO RIVER USING A RETARDING BASIN Yuko Ishida, Kento Okunishi, Masashi Harada, Yoshiya Ogawa, Masato Maegawa	STATISTICAL ANALYSIS OF RAINFALL TREND AND VARIABILITY DUE TO CLIMATE CHANGE IN BANGLADESH Md Rezaul Karim, Sakib Shadman Prosun, Ahmed Farhan Mahabub	STABILITY PERFORMANCE ASSESSMENT OF HONEY COMB SHAPE BLOCKS FOR COASTAL ARMOUR UNITS Kouhei Oguma, Hiroshi Matsushita, Tomohiro Yasuda
2:45-3:00pm	IMPACT OF DOWNWARD SEEPAGE ON PLANE BED ALLUVIAL CHANNELS Mahesh Patel, Anurag Sharma, Bimlesh Kumar	ANALYSIS OF LAND USE LAND COVERAGE DYNAMICS AND ITS EFFECTS ON RAINFALL-RUNOFF AND RUNOFF-SEDIMENT PATTERNS IN YOM RIVER BASIN THAILAND Aksara Putthivithaya, Sasin Jirasirak, Pakkasem Thongchai	THE ASSIMILATION ANALYSIS OF 2D SHALLOW WATER FLOW MODEL WITH THE ADJOINT METHOD FOR THE PREDICTION OF DOWNSTREAM WATER LEVELS Tetsuaki Mikami, Shoji Fukuoka, Akhide Watanabe	EFFECTIVENESS ANALYSIS OF MAINTENANCE FLOW FOR NON-ORGANIC MATTERS IN JAPANESE CLASS-A RIVERS Marina Kishida, Yui Shinozaki, Kaito Enomoto, Naoki Shirakawa	RAINFALL-RUNOFF ANALYSIS CONSIDERING THE UNCERTAINTIES OF RAINFALL INTENSITY AND MODEL PARAMETERS BASED ON THE THEORY OF STOCHASTIC Daiwei Cheng, Tadashi Yamada	FUNDAMENTAL STUDY FOR RESISTANCE OF COASTAL DIKE WITH CONCRETE PANELS AGAINST COMPOUND DISASTER OF EARTHQUAKE AND TSUNAMI Mizuki Ueno, Yohei Kawabata, Yasuo Nihei
3:00-3:15pm	ANALYSIS OF FLOOD AND RIVER BED VARIATION IN THE KAMANASHI RIVER WITH LARGE AMOUNT OF SEDIMENT DEPOSITION Shiro Okayama, Yuko Naito, Shoji Fukuoka, Takahisa Gotoh	ASSESSMENT OF SOIL EROSION AND SEDIMENT DEPOSITION USING GIS TECHNIQUE IN THE YOM RIVER BASIN Prem Rangsiwanichpong	REGIONAL DISASTER PREVENTION WITH CLOUD-BASED GIS MAPPING AND LOCATION-BASED GAMING: DISASTER PREVENTION GO! Masaya Uesugi, Toshiyuki Moriyama	EFFECTS OF SUBMERGED WEIR WITH AN OPENING ON BED DEFORMATION AND FLOW STRUCTURE UNDER LIVE-BED CONDITIONS Hirofumi Ue, Terunori Ohmoto, Kazuki Kuranaga	A RAINFALL-RUNOFF/FLOOD-INUNDATION MODEL FOR MYOHOJI RIVER BASIN KOBE JAPAN WITH RAINWATER SEWAGE CHANNELS Kenichiro Kobayashi, Atsushi Tamura, Ichiro Fujita, Akinobu Yamamoto, Kazuyoshi Kanayama	STUDY ON THE BEHAVIOR OF SUSPENDED SOLIDS IN THE NERITIC REGION IN AN INNER BAY Hiroaki Tanaka, Hideo Oshikawa, Akira Tai, Yuichi Hayami
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Session	River morphodynamics (1)	Netherlands-Japan joint research project for adaptation to floods in changing climate	Landslides and debris flows	Eco-hydraulics and management (2)	Hydroinformatics	Ports, Coastal Engineering and Management (2)
Chair	Tatsuhiko Uchida, Hiroshima University	Tomohito Yamada, Hokkaido University	Kazuki Yamanoi, Kyoto University	Hitoshi Miyamoto, Shibaura Institute of Technology	Yasuo Nihei, Tokyo University of Science	Hitoshi Tanaka, Tohoku University
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4:45-5:00pm	SIMULATION OF RIVER MORPHOLOGY DEVELOPMENT ACCOUNTING FLEXIBILITY OF RIPARIAN VEGETATION Runye Zhu, TSUBAKI Ryota	COMPARISON OF HYDROLOGICAL MODELS TO DETERMINE FLOOD CHARACTERISTICS FOR THE TOKACHI RIVER, HOKKAIDO (JAPAN) Mark Hegnauer, Tsuyoshi Hoshino, Tomohito Yamada	INVESTIGATION OF COMPLEX DISASTER OF DEBRIS FLOW AND FLOOD IN HIGASHI RIVER, SHIMATA RIVER SYSTEM Nozomu ONAKA, Yoshihisa Akamatsu, Takanori Kono, Kohei Yamaguchi	NUMERICAL EXPERIMENTS TO EVALUATE EFFECT OF EXTERNAL FORCES ON TEMPERATURE STRATIFICATION IN LAKE KASUMIGAURA, JAPAN Wang Yueyi, Masayasu Irie, Shunsuke Komuro, Guillaume Auger, Avato Kohzu	UNCERTAINTIES OF MACHINE LEARNING IN PREDICTING THE HYDROLOGICAL RESPONSES OF LID PRACTICES Yang Yang, Ting Fong May Chui	INTER AND INTRA-ANNUAL VARIATION OF WAVE ENERGY IN SOUTHEAST ASIA Bahareh Kamranzad, Pengzhi Lin, Wen Yi
5:00-5:15pm	THE EFFECTS OF BASIN GEOLOGY ON THE GRAIN SIZE CHARACTERISTICS OF BED MATERIALS AND THE VARIABILITY OF BEDFORM CONFIGURATION AMONG ALLUVIAL RIVERS Menglu Qin, Takeyoshi Chibana	ESTIMATION OF PROBABLE RAINFALL CONSIDERING UNCERTAINTY BASED ON MASSIVE ENSEMBLE CLIMATE PROJECTIONS IN THE TOKACHI RIVER BASIN Fumihiko Uemura, Shigekazu Masuya, Takatoshi Yoshida, Noriaki Omura, Sho Tomura, Manabu Chiba, Taro Yamamoto, Atsushi Takeda, Tsuyoshi Hoshino, Tomohito Yamada	DETECTION OF RISKY MOUNTAIN STREAM AND SLOPE FAILURE AREA IN NOROGAWA RIVER BASIN USING GIS AND OPTICAL SATELLITE IMAGE Koji Asai, Tomohiro Ishii, Takuzo Amano, Hajime Shirozu	THE FLOW CHARACTERISTICS AROUND THE SPUR DIKES AND SWIMMING BEHAVIOR OF FISH TO IT Daiki Akema, Muneyuki Aoki	ANALYZING HYDROACOUSTIC SIGNALS TO MEASURE THE STREAMFLOW OF A SHALLOW MOUNTAINOUS RIVER MOHAMAD BASEL AL SAWAF, Kiyoshi Kawanishi, Masoud Bahreinimotlagh	HIGH WAVE CONDITIONS DUE TO TYPHOONS MEASURED AT AN OFFSHORE OBSERVATION TOWER Yasuyuki Baba, Teruhiro Kubo, Nobuhito Mori, Yasunori Watanabe, Tomohito Yamada, Ayumi Saruwatari, Junichi Otsuka, Yusuke Uchiyama, Junichi Ninomiya, Tomoya Shimura
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5:30-5:45pm	EXPERIMENTAL STUDY ON SANDBARS EVOLUTION WITH BED EROSION GROWTH IN MIXED ALLUVIAL-BEDROCK UNIFORMLY CURVED CHANNEL MAMY RIJA ANDRIAMBOAVONJY, ADRIANO COUTINHO LIMA, NORIHIRO IZUMI	FATALITY ESTIMATION BY LIFE LOSS EVALUATION MODEL FOR THE LARGESCALE FLOODS UNDER FUTURE CLIMATE Sho Tomura, manabu Chiba, Taro Yamamoto, Fumihiko Uemura, Shigekazu Masuya, Noriaki Omura, Takatoshi Yoshida, Atsushi Takeda, Tsuyoshi Hoshino, Tomohito Yamada, Makoto	NUMERICAL SIMULATION OF DEBRIS FLOW WITH DRIFTWOOD IN THE SOZU RIVER, SAKA TOWN, HIROSHIMA PREFECTURE, JAPAN ON JULY 6, 2018 Naoki Fukuoka, Hiroyuki Nagano, Haruyuki Hashimoto	INSTALLATION OF ALTERNATIVE GRAVEL BANKS IN CHANNELIZED RIVER PIETRO BERETTA PICCOLI, Youichi Yasuda, Robert Boes	JAPANESE LAKE INFORMATION IN A WEB APPLICATION, THE CLIMATES OF LAKE BASINS (CGLB) Tosiyuki Nakaegawa	COMPUTATIONAL MODELLING OF THE IMPACT OF SALT MARSH MANAGEMENT INTERVENTIONS ON COASTAL FLOODING WILLIAM G. BENNETT, Thomas J. Van Veelen, Tom P. Fairchild, John N. Griffin, Harshinie Karunaratna
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