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TECHNICAL SESSION 1A

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Monday, 14th August 2017

2.30 PM - 4 PM

ROOM: TDI-A

CHAIR: Prof. Ing. Silke Wieprecht

- 1b-1a 01-02-0475 GRAVEL CAPPING FOR TURBIDITY CONTROL DURING SEDIMENT SLUICING UPSTREAM OF OOUCHIBARU DAM BY THE USE OF EJECTOR PUMP SYSTEM
DAISUKE TSURUSAKI, MASAKI KIYOTA, KATSUYUKI ASAZAKI, YUJI NAKAMURA, TOSHIYUKI TEMMYO, MICHIHIRO MIZUNUMA, AHMAD MOUSSA, SAMEH A. KANTOUSH, TETSUYA SUMI
- 1b-1b 01-02-0761 NUMERICAL STUDY ON FORMATION AND EVOLUTION OF GRAVEL TO SAND TRANSITION
WEI HUANG, HUAI HAN LIU, BO JIANG, GUOPING LEI, ZUPENG GU, HONGWEI KUANG, FEI CHEN
- 1b-1c 01-02-0550 3D VERSUS 2D CALIBRATION OF A 3D HYDRODYNAMIC MODEL
PARNA PARSAPOUR-MOGHADDAM, COLIN D. RENNIE
- 1b-1d 01-02-0202 CHANGE IN SEDIMENT CHARACTERISTICS AND SEDIMENT LOAD OF THE NAN RIVER DUE TO LARGE DAM CONSTRUCTION
BUTSAWAN BIDORN, STEPHEN A. KISH, JOSEPH F. DONOGHUE, KOMKRIT BIDORN, RUETAITIP MAMA
- 1b-1e 01-02-0536 WATER AND SEDIMENT VARIATIONS AND THEIR INFLUENCE FACTORS IN THE YELLOW RIVER BASIN
YAN-GUI WANG, KANG CHEN, YIN CHEN
- 1b-1f 01-02-0691 FORMATIVE PARAMETERS FOR STABLE ARMOR DEVELOPMENT
STEPHANE BERTIN, HEIDE FRIEDRICH

TECHNICAL SESSION 1B

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Monday, 14th August 2017

2.30 PM - 4 PM

ROOM: TDI-B

CHAIR: Prof. Andreas Malcherek

- 1d-1a 01-04-0272 BUBBLE DYNAMICS AND PIV MEASUREMENTS IN A HYDRAULIC JUMP
ADEL EMADZADEH, YEE-MENG CHIEW
- 1d-1b 01-04-0038 SCOUR MORPHOLOGY DUE TO VERTICAL CROSSING JETS WITH DIFFERENT DIAMETERS
MICHELE PALERMO, STEFANO PAGLIARA
- 1d-1c 01-04-0304 CHARACTERISTICS OF TOTAL PHOSPHORUS TRANSPORT IN MIDDLE REACHES OF YARLUNG ZANGBO RIVER
SHUQING NAN, JIA LI, LINLEI ZHANG
- 1d-1d 01-04-0228 FREE SURFACE PROFILE MEASUREMENTS OF FLOW OVER SQUARE BARS USING AN IMAGE PROCESSING APPROACH
SAAD MULAHASAN, THORSTEN STOESSER, SAFAA KH. AL-JUMAILI
- 1d-1e 01-04-0345 STUDY ON EFFECT OF RADIUS OF CURVATURE ON LATERAL OVERFLOW IN CURVED CHANNEL
KOJI ASAI, NOBUYUKI KAWAMOTO
- 1d-1f 01-04-0495 MODELING SYSTEM EMPLOYED FOR THE OPTIMIZATION OF THE DESIGN OF THE FILLING/EMPTYING SYSTEM OF THE THIRD SET OF LOCKS OF PANAMA CANAL
ANGEL N. MENÉNDEZ, EMILIO A. LECERTÚA, NICOLÁS D. BADANO

TECHNICAL SESSION 1C

THEME 3: ENVIRONMENTAL HYDRAULICS AND INDUSTRIAL FLOWS

Monday, 14th August 2017

2.30 PM - 4 PM

ROOM: DTHO

CHAIR: Dr. Mengzhen Xu

- 3a-1a 03-11-1370 POTENTIAL SUITABLE HABITAT SIMULATION OF THE HOMONOIA RIPARIA LOUR IN YUNNAN, CHINA
YUJUN YI, YANG ZHOU
- 3a-1b 03-11-0708 INCEPTION POINT FOR DIFFERENT CONFIGURATION ON MODELING OF STEPPED SPILLWAYS
DENIK SRI KRISNAYANTI, VERY DERMAWAN, MOH. SHOLICHIN, DIAN SISINGGIH
- 3a-1c 03-11-0072 NUMERICAL SIMULATION STUDY ON EFFECTS OF WATER DEPTH ON TURBULENT IMPINGING JET DIFFUSION
WANGRU WEI, JUN DENG
- 3a-1d 03-11-0836 DETERMINATION OF ENVIRONMENTAL FLOW IN ARID AND SEMI-ARID REGIONS
ELNAZ ZEHTABIAN, ARDALAN IZADI, FARHAD YAZDANDOOST
- 3a-1e 03-11-0216 RELATIONSHIP INVESTIGATION BETWEEN THE DISSIPATION PROCESS OF SUPERSATURATED TOTAL DISSOLVED GAS AND WIND EFFECT IN FLOWING WATER
JUPING HUANG, WEI WANG, LELE WANG, RAN LI, JINGJIE FENG
- 3a-1f 03-11-1297 A TIME CHANGE OF OXYGEN CONSUMPTION RATE AT URBAN RIVER MOUTH
KOUJI UNO, MISAKI KITAMURA, GOZO TSUJIMOTO, TETSUYA KAKINOKI

TECHNICAL SESSION 1D

THEME 6: WATER RESOURCES MANAGEMENT

Monday, 14th August 2017

2.30 PM - 4 PM

ROOM: Johor / Kedah

CHAIR: Ir. Mohd Zaki Mat Amin

- 6a-1a 06-26-0153 ASSESSMENT OF CLIMATE CHANGE IMPACTS ON HYDROLOGICAL PROCESSES AND WATER RESOURCES BY WATER EVALUATION AND PLANNING (WEAP) MODEL: CASE STUDY IN THAC MO CATCHMENT, VIETNAM
BAO QUOC PHAM, PAO-SHAN YU, TAO-CHANG YANG, CHEN-MIN KUO, HUNG-WEI TSENG
- 6a-1b 06-26-0170 ANALYSIS OF THE RELATIONSHIP BETWEEN SNOW DEPTH AND TOPOGRAPHY IN A MOUNTAINOUS REGION USING AIRBORNE LASER SCANNING DATA
TERUMASA NISHIHARA, ATSUSHI TANISE, KAZUYOSHI WATANABE
- 6a-1c 06-26-1544 VALIDATION OF TRMM 3B43 MONTHLY PRECIPITATION PRODUCT WITH RAIN GAUGES DATA IN GANSU, CHINA DURING 2000-2013
CHENG CHEN, QIU WEN CHEN, JIN ZHANG, YU QING LIN, SHU HE ZHAO, ZHENG DUAN, XIAO QI
- 6a-1d 06-26-1244 ASSESSING THE VULNERABILITY OF A TROPICAL DRINKING WATER RESERVOIR TO CLIMATE CHANGE
LAURA MELO VIEIRA SOARES, TALITA FERMANDA DAS GRAÇAS SILVA, BRIGITTE VINÇON-LEITE, JULIAN CARDOSO ELEUTÉRIO, NILO DE OLIVEIRA NASCIMENTO
- 6a-1e 06-26-0210 DEVELOPMENT AND EVALUATION OF DAM INFLOW DROUGHT INDEX BASED ON DAM OPERATION RULE
MINSUNG KWON, KYUNG SOO JUN
- 6a-1f 06-26-1269 WATER RESOURCES DECREASE ISSUE AND COORDINATION STRATEGY OF GREEN WATER AND BLUE WATER IN THE TAIHANG MOUNTAIN REGION
YANGWEN JIA, JUNKAI DU, CHUNFENG HAO, CUNWEN NIU, YAQIN QIU

TECHNICAL SESSION 1E

THEME 2: FLOOD MANAGEMENT

Monday, 14th August 2017

ROOM: Kelantan

2.30 PM - 4 PM

CHAIR: Dr. Xilin Xia

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|-------|------------|---|
| 2c-1a | 02-08-0009 | GREEN WALL AS URBAN FLOOD MITIGATION
<i>DARRIEN YAU SENG MAH, JING TECK LAU, HAFIZAH MARIAH
MOHD ABUSEMAN, FANG YENN TEO</i> |
| 2c-1b | 02-08-0628 | EFFECT OF LINED CYLINDERS BEHIND EMBANKMENT ON THE
ENERGY REDUCTION OF OVERFLOWING WATER
<i>YOSHIYA IGARASHI, NORIO TANAKA, TAKEHITO ZAHA</i> |
| 2c-1c | 02-08-1093 | UNCERTAINTY IN DEBRIS FLOW HAZARD ESTIMATION USING
X-MP RADAR RAINFALL FORECAST
<i>RATIH INDRI HAPSARI, SATORU OISHI, MAGFIRA SYARIFUDDIN,
ROSA ANDRIE ASMARA</i> |
| 2c-1d | 02-08-0148 | HYDRAULICS OF DENDATE FLIP BUCKET WITH AN AERATOR
<i>FEI MA, CHAO LUO, JIAN-HUA WU</i> |
| 2c-1e | 02-08-1046 | OPTIMIZATION OF OPERATING AGRICULTURAL DIVERSION WEIRS
TO MITIGATE FLOOD
<i>MITSUMASA ANAN, KOZUE YUGE, KOSUKE HAMADA</i> |
| 2c-1f | 02-08-1081 | HEC-RAS FLOW ANALYSIS IN THE RIVER TAPI
<i>DARSHAN J. MEHTA, SANJAY M. YADAV, SAHITA I. WAIKHOM</i> |

TECHNICAL SESSION 1F

THEME 4: COASTAL, ESTUARIES AND LAKES MANAGEMENT

Monday, 14th August 2017

2.30 PM - 4 PM

ROOM: Melaka

CHAIR: Assoc. Prof. Gregory Shahane De Costa

- 4c-1a 04-18-0640 EAST CHINA SEA WAVE HEIGHT TRENDS ANALYSIS USING 20CR REANALYSIS
LINGLI WU, TENG WU, XING LI
- 4c-1b 04-18-0135 APPLICATIONS OF NEAR- AND FAR-FIELD COUPLED MODELS FOR MARINE OUTFALLS
JING FEN CHUA, CHI WEI CHENG, AAROUN LEIKING, EDGAR PETER DABBI, JACOB HJELMAGER JENSEN, JUAN CARLOS SAVIOLI
- 4c-1c 04-18-0785 IMPACTS OF SEA LEVEL RISE ON A SEMI-ENCLOSED BAY INSIDE THE PEARL RIVER ESTUARY
YE YANG, MAY TING FONG CHUI
- 4c-1d 04-19-0490 BIOAVAILABILITY AND BIOACCESSIBILITY OF HEAVY METALS IN SURFACE AND SUB-SURFACE SEDIMENTS IN INTERNATIONAL WETLAND OF ZARIVAR, IRAN
AMIR HAJNOROOZI, ABDOLREZA KARBASSI, SADEGH PARTANI, FATEMEH TORABI KACHOOSANGI
- 4c-1e 04-18-0249 MAPPING TIDAL RESIDUAL CURRENTS AND SUSPENDED SEDIMENT PATTERN IN THE YONGJIANG ESTUARY, CHINA USING A NUMERICAL MODEL
YU KUAI, JIANFENG TAO, QING ZHANG, WEIQIU CHEN, WEIQI DAI
- 4c-1f 04-18-1010 NUMERICAL SIMULATION OF SEAWATER EXCHANGE AND PARTICLE TRANSPORT IN KANMON STRAIT
ANDHITA TRIWAHYUNI, KOJI ASAI

TECHNICAL SESSION 1G

THEME 7: HYDROINFORMATICS / COMPUTATIONAL METHODS AND EXPERIMENTAL METHODS

Monday, 14th August 2017

2.30 PM - 4 PM

ROOM: Negeri Sembilan

CHAIR: Dr. Charles Hin Joo Bong

- 7d-1a 07-34-1470 REMOTE MEASUREMENT OF SURFACE-WATER VELOCITY USING INFRARED VIDEOGRAPHY AND PIV: A PROOF-OF-CONCEPT FOR ALASKAN RIVERS
PAUL J. KINZEL, CARL J. LEGLEITER, JONATHAN M. NELSON, JEFFREY S. CONAWAY
- 7d-1b 07-34-0081 COMPARATIVE AND COMPLEMENTARY DISCHARGE MEASUREMENTS USING ADCP AND RADAR-TECHNOLOGY
FABIAN NETZEL, CHRISTOPH MUDERSBACH, MARC SCHEIBEL
- 7d-1c 07-34-0255 EXPERIMENTAL INVESTIGATION OF THE PERFORMANCE OF TILT CURRENT METERS IN WAVE-DOMINATED FLOWS
ASGER BENDIX HANSEN, STEFAN CARSTENSEN
- 7d-1d 07-34-1365 THE KINECT SENSOR AS A TOOL FOR REMOTE FLOW CHARACTERISATION
YUN-HANG CHO, MATTEO RUBINATO, ANDY NICHOLS
- 7d-1e 07-34-0317 UNSTEADY TURBULENT VELOCITY PROFILING USING AN ARRAY OF TWO VECTRINO II PROFILERS IN TIDAL BORES AND OPEN CHANNEL FLOWS
XINQIAN LENG, HUBERT CHANSON
- 7d-1f 07-34-1340 JET EROSION TEST FOR SOIL ERODIBILITY CHARACTERIZATION: ASSESSMENT OF THE UNDERLYING PHYSICS
EDDY J. LANGENDOEN, JORGE D. ABAD

TECHNICAL SESSION 1H

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Monday, 14th August 2017

2.30 PM - 4 PM

ROOM: Pahang

CHAIR: Prof. Onyx Wai

- 1a-1a 01-01-1570 ICHTHYOPLANKTON STRUCTURE IN A DOWNSTREAM REACH AFFECTED BY THE THREE GORGES RESERVOIR ECOLOGICAL OPERATION, YANGTZE RIVER, CHINA
WEI XU, XIAOJUAN CHEN, JIANGPING TAO, XIAOMING ZHANG, JIANBO CHANG
- 1a-1b 01-01-0211 SENSITIVITY ANALYSIS OF THE HYDROMORPHOLOGICAL INDEX OF DIVERSITY USING NUMERICAL GENERATED DATA
SEVERIN STÄHLY, PIERRE BOURQUI, CHRISTOPHER T. ROBINSON, ANTON J. SCHLEISS
- 1a-1c 01-01-0439 COMPARISON OF DIFFERENT METHODS FOR PREDICTING ZONAL DISCHARGE OF STRAIGHT HETEROGENOUSLY ROUGHENED COMPOUND CHANNELS
XIAONAN TANG
- 1a-1d 01-01-1055 NUMERICAL MODELING OF TURBULENT SECONDARY FLOW IN A HIGH-AMPLITUDE MEANDERING CHANNEL
JOONGCHEOL PAIK, SANG DEOG PARK
- 1a-1e 01-01-0800 ECO-HYDROLOGICAL MODELLING OF A RESTORED RIPARIAN WETLAND
BIRGITTE VON CHRISTIERSON, MICHAEL BUTTS, LAURA A. NIEUWENHOVEN, FLEMMING T. HANSEN, JANNICK K. JENSEN, JANE R. POULSEN
- 1a-1f 01-01-0718 ESTIMATION OF OUTFLOW AND NUTRIENT LOAD BASED ON THE TURBIDITY FUNCTION IN RIVERS IN SANRIKU DISTRICT JAPAN
KUNIIHIKO HAMAGAMI, KEITA ORITO, RYU SUGAWARA

TECHNICAL SESSION 1I

THEME 5: URBAN WATER MANAGEMENT

Monday, 14th August 2017

ROOM: Perak

2.30 PM - 4 PM

CHAIR: Dr. Amin Talei

- 5a-1a 05-21-0754 RAINFALL-RUNOFF MODEL ANALYSIS USING RADAR-BASED QUANTITATIVE PRECIPITATION ESTIMATION (QPE) AND GAUGE RAINFALL AT UPPER KLANG AMPANG RIVER BASIN
SALWA RAMLY, WARDAH TAHIR, ASMADI AHMAD, NOOR HISHAM MOHD GHAZALI
- 5a-1b 05-21-0758 VARIABILITY OF RAINFALL DURING THE PAST CENTURY AT YOM RIVER BASIN
RUETAITIP MAMA, BUTSAWAN BIBORN, KWAN SUE JUNG, MATHARIT NAMSAI, METHAT YUENPRAPHAN
- 5a-1c 05-21-0912 SENSITIVITY ANALYSIS OF SPATIAL INPUT PARAMETER IN DISTRIBUTED HYDROLOGICAL MODEL
SITI HUMAIRA HARON, ISMAIL SAHID, NOR FAIZA ABD RAHMAN, KHAIRI KHALID, MUHAMMAD RADZALI MISPAN, LARIYAH MOHD SIDEK
- 5a-1d 05-21-1162 SIMULATION OF STREAMFLOW IN LOWER MAHI BASIN USING ARCSWAT
G.K. JIDHI, PRAVEEN RATHOD, VIVEK L. MANEKAR
- 5a-1e 05-21-1065 INFILTRATION AND SURFACE RUNOFF PROCESSES ON SLOPE AND SOIL COMPACTION WITH RAINFALL SIMULATOR EXPERIMENT
D NOORVY KHAERUDIN, AGUS SUHARYANTO, DONNY HARISUSENO, LILY MONTARCIH
- 5a-1f 05-21-0827 MODELING OF TOTAL MAXIMUM DAILY LOAD FOR AN URBAN CATCHMENT
NAZIRUL MUBIN ZAHARI, LARIYAH MOHD SIDEK, MING FAI CHOW, SITI HUMAIRA HARON, NUR ALIA NIZA, HIDAYAH BASRI

TECHNICAL SESSION 1J

THEME 5: URBAN WATER MANAGEMENT

Monday, 14th August 2017

ROOM: Perlis

2.30 PM - 4 PM

CHAIR: Prof. Sobri Harun

- 5d-1a 05-24-0066 A FRAMEWORK FOR RISK ASSESSMENT OF STORM WATER DRAINAGE SYSTEMS UNDER UNCERTAINTIES
ABBAS ROOZBAHANI, REYHANEH SHARIAT
- 5d-1b 05-24-1493 OBTAINING REDUCTION FACTORS BY AREA FOR THE STATE OF SONORA IN NORTHERN MEXICO
SINUHÉ ALEJANDRO SÁNCHEZ MARTÍNEZ, RAMÓN DOMÍNGUEZ MORA, MARITZA LILIANA ARGANIZ JUÁREZ
- 5d-1c 05-24-1407 INTERCEPTOR SYSTEMS FOR IMPROVEMENT OF RIVER WATER QUALITY FOR RIVER OF LIFE (ROL) – DESIGN CRITERIA, ANALYSES AND CHALLENGES
WAI SAM WONG, MOHD. AZMI ISMAIL, PEK SIANG CHENG, KOK WAI LOKE
- 5d-1d 05-24-0273 HYDRAULIC RESPONSES ON STORMWATER TREATMENT FOR VARIATION OF FILTER MEDIA DEPTHS
HUSNA TAKAIJUDIN, AMINUDDIN AB. GHANI, NOR AZAZI ZAKARIA, TZE LIANG LAU
- 5d-1e 05-24-1311 COMPARISON OF FLOW HYDRAULICS IN DIFFERENT MANHOLE TYPES
MD NAZMUL AZIM BEG, RITA F. CARVALHO, JORGE LEANDRO
- 5d-1f 05-24-0697 EFFECT OF DESIGN CRITERIA FOR THE PERFORMANCE ON CONSTRUCTED WETLANDS
NUR ASMALIZA MOHD NOOR, LARIYAH MOHD SIDEK, SIMON BEECHAM, AMINUDDIN AB. GHANI

TECHNICAL SESSION 2A

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Monday, 14th August 2017

4.30 PM - 6 PM

ROOM: TDI-A

CHAIR: Prof. Yee-Meng Chiew

- 1b-2a 01-02-1320 ESTIMATE OF FRICTION FACTOR FOR FLOWS SUBJECT TO LARGE-SCALE ROUGHNESS
NIAN-SHENG CHENG
- 1b-2b 01-02-1345 EXPERIMENTAL AND NUMERICAL INVESTIGATION OF BED LOAD DUE TO TRIANGULAR FLOOD WAVE PROPAGATION
GÖKÇEN BOMBAR, MEHMET ŞÜKRÜ GÜNEY
- 1b-2c 01-02-0424 OBSERVATION OF BEDFORMS IN THE DOWNSTREAM REACH OF THE TOYOHIRA RIVER DURING FLOOD
SATOMI YAMAGUCHI, RYOSUKE AKAHORI, HIROKI YABE
- 1b-2d 01-02-0722 INVESTIGATION OF THE EFFECTS OF VEGETATION ON SEDIMENT DISTRIBUTION AND MORPHODYNAMICS EXPERIMENTALLY AND NUMERICALLY
CHANG-LAE JANG, ELLIS PENNING, GI JUNG KIM, HYO HWANG, YONGUK RYU
- 1b-2e 01-02-0667 LAGRANGIAN NUMERICAL MODELLING OF LOCAL SCOUR AROUND CIRCULAR PIPE
EHSAN JAFARI NODOUSHAN, MOHANNA TAJNESAIE, AHMAD SHAKIBAEINIA
- 1b-2f 01-02-0084 REAL-TIME MONITORING OF THE SCOURING DEPTH LOCATED INSIDE A GRAVEL-BED RIVER
MARKO SHAO HUA HSU, YU-HUAN CHANG, CHONG YU SUN, PI FANG HUNG

TECHNICAL SESSION 2B

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Monday, 14th August 2017

4.30 PM - 6 PM

ROOM: TDI-B

CHAIR: Dr. Daisuke Nohara

- 1d-2a 01-04-0430 LARGE-SCALE MODELLING OF DOUBLE-STILLING BASIN ARRANGEMENT, PAKISTAN – CASE STUDY
UBAID ULLAH, MUHAMMAD IQBAL, ERIC J. LESLEIGHTER, BRONSON MCPHERSON, UMAIR MANNAN
- 1d-2b 01-04-0063 FLOW BEHAVIOR OVER OGEE AND STEPPED SPILLWAY UNDER DIFFERENT FLOW CONDITIONS: AN EMPIRICAL APPROACH
SUMIT GANDHI, KIRTIKA SACHDEVA, MUDIT KHANDELWAL, RAJESH RAI, VIKRAM SINGH, SUDEEP SRIVASTAVA, SURYA PRATAP MEENA
- 1d-2c 01-04-0105 EFFECT OF ADJUSTABLE FLAPS ON RIVER SURF WAVES AT ABRUPT DROPS
HELGE FUCHS
- 1d-2d 01-04-0303 THREE DIMENSIONAL NUMERICAL MODELLING OF FULL-SCALE HYDRAULIC STRUCTURES
CATERINA TORRES, DUNCAN BORMAN, ANDY SLEIGH, DAVID NEEVE
- 1d-2e 01-04-0451 COHERENT STRUCTURES IN A SHARPLY CURVED BEND WITH AND WITHOUT A SPUR DIKE
METE KOKEN, EZGI BUDAK
- 1d-2f 01-04-0656 CHARACTERISTICS OF HYDRAULIC JUMPS BELOW DROP STRUCTURES
YOUICHI YASUDA

TECHNICAL SESSION 2C

THEME 3: ENVIRONMENTAL HYDRAULICS AND INDUSTRIAL FLOWS

Monday, 14th August 2017

4.30 PM - 6 PM

ROOM: DTHO

CHAIR: Prof. Takashi Asaeda

- 3a-2a 03-11-0217 EFFECT OF UPSTREAM DISCHARGE REGULATION ON FISH HABITAT IN THE ANE RIVER, JAPAN
SHU ISHIZAKI, SHIGEYA MAEDA, AKIKO MINAGAWA, KOJI NODA, HISASHI KOBAYASHI, KOSHI YOSHIDA, HISAO KURODA
- 3a-2b 03-11-0674 ELECTRIFIED FLEXIBLE FISH FENCES
MARKUS AUFLEGER, HEIDI BÖTTCHER, BARBARA BRINKMEIER, GÜENTHER UNFER, BERNHARD ZEIRINGER
- 3a-2c 03-11-0647 EXPERIMENTAL STUDY OF TURBULENCE ON KILLING LIMNOPERNA FORTUNEI LARVAE IN PIPELINES
CHENDI ZHANG, MENGZHEN XU, ZHAOYIN WANG
- 3a-2d 03-11-0143 FISH GUIDANCE STRUCTURES: NEW HEAD LOSS FORMULA AND FISH GUIDANCE EFFICIENCIES
ROBERT M. BOES, ISMAIL ALBAYRAK
- 3a-2e 03-11-0437 EFFECTS OF THE POOL-AND-WEIR-FISHWAY WITH GRAVEL DEPOSIT ON MOVEMENT OF TORIBOLODON HAKONENSIS
MUNEYUKI AOKI, KEITA SAITO
- 3a-2f 03-11-1457 IS THERE ENOUGH EVIDENCE TO INFORM EFFECTIVE FISHWAY DESIGN IN THE TEMPERATE SOUTHERN HEMISPHERE?
MARTIN A. WILKES, MORWENNA MCKENZIE, J. ANGUS WEBB

TECHNICAL SESSION 2D

THEME 6: WATER RESOURCES MANAGEMENT

Monday, 14th August 2017

4.30 PM - 6 PM

ROOM: Johor / Kedah

CHAIR: Leonore Boelee

- 6a-2a 06-26-0501 COPING WITH MULTI-YEAR DROUGHTS IN SOUTH KOREA: LESSONS FROM THE 2014-2015 DROUGHT
TAE-WOONG KIM, KYUNG-SOO JUN, JOO-HEON LEE, JAE-HYUN AHN, MINSUNG KWON, DONG-HYEOK PARK, HYUNGSUN CHA, YOUNG HO SHIN, YONGHO KANG, JISEON SONG
- 6a-2b 06-26-0036 PROJECTING FUTURE HYDRO-CLIMATIC CHANGES OF THE JOHOR RIVER BASIN, MALAYSIA
MOU LEONG TAN, VIVIEN P. CHUA, JUNENG LIEW, FREDOLIN T. TANGANG, NGAI WENG CHAN
- 6a-2c 06-26-0524 ASSESSING UNCERTAINTY OF VARIABLE SOURCE AREA, HYDROLOGICAL MODEL IN HARANGI WATERSHED, KARNATAKA STATE, INDIA
B. C. KUMAR RAJU, NANDAGIRI LAKSHMAN
- 6a-2d 06-26-0279 STUDY ON THE TOTAL WATER AMOUNT CONTROL FOR DECREASING GROUNDWATER OVEREXPLOITATION IN THE HAIHE RIVER BASIN
GUIYU YANG, HAO WANG, WEIWEI SHAO, YANGWEN JIA, LIN WANG
- 6a-2e 06-26-1064 PREDICTING THE IMPACT OF CLIMATE CHANGE ON A WATER SUPPLY RESERVOIR
ZATI SHARIP, ABD. JALIL HASSAN, MOHD ZAKI MAT AMIN, SAIM SURATMAN, AZUHAN MOHAMED
- 6a-2f 06-26-0448 PREDICTING THE COMBINED EFFECT OF CLIMATE CHANGE AND RAPID URBANIZATION ON WATER QUALITY OF PASIG-MARIKINA RIVER, MANILA
PANKAJ KUMAR, YOSHIFUMI MASAGO, BINAYA KUMAR MISHRA, AMMAR RAFIEEMAM, KENSUKE FUKUSHI

TECHNICAL SESSION 2E

THEME 7: HYDROINFORMATICS / COMPUTATIONAL METHODS AND EXPERIMENTAL METHODS

Monday, 14th August 2017

4.30 PM - 6 PM

ROOM: Kelantan

CHAIR: Prof. Hector Bravo

- 7b-1a 07-32-0395 NUMERICAL MODELING AND PRELIMINARY ANALYSIS ON DISPERSION OF LIQUID EFFLUENT FOR INLAND NUCLEAR POWER PLANTS
HAIWEN ZHANG, PING JI, YIJUN ZHAO, JUE YUAN, XIAOLI CHEN, LI ZENG
- 7b-1b 07-32-0768 PREDICTING DIFFUSE SOURCE POLLUTION FOR A NUTRIENT-SENSITIVE RIVER BASIN WITH THE SWAT MODEL
ALPER ELÇI, SELMA AYAZ
- 7b-1c 07-32-0245 EFFECT MECHANISM OF FLOW VELOCITY ON IRON RELEASE FROM PIPE SURFACES IN DRINKING WATER DISTRIBUTION SYSTEMS
MANJIE LI, ZHAOWEI LIU, YONGCAN CHEN, YONGYAN WU
- 7b-1d 07-32-1036 TRACKING OF FLOATING OBJECTS ON RIVER SURFACE BY NUMERICAL SIMULATION
AKIHIKO NAKAYAMA, SEAK NI CHAI, HUAN TAO GOH, KHAI CHIN NG
- 7b-1e 07-32-1433 TRANSIENT GROWTH OF PERTURBATIONS IN SHALLOW FLOWS
YARZAR TUN, ABDOLMAJID MOHAMMADIAN
- 7b-1f 07-32-0786 2D NUMERICAL APPROACH FOR EVALUATION OF WEIR OPERATION STRATEGIES ON HARMFUL ALGAL BLOOM CONTROL
IL WON SEO, JUN SONG KIM

TECHNICAL SESSION 2F

THEME 2: FLOOD MANAGEMENT

Monday, 14th August 2017

ROOM: Melaka

4.30 PM - 6 PM

CHAIR: Emma Brown

- 2b-1a 02-07-0095 EFFECTS OF VARYING UPSTREAM SIDE SLOPES ON DISCHARGE COEFFICIENT OF RECTANGULAR PROFILE SHORT-CRESTED WEIRS
YUE JUN CHEN, ZONG FU FU, ZHEN CUI, SHAN WANG, GUANG GANG MA, WEN JIANG, YAO WANG, XUE HAN QIU
- 2b-1b 02-07-0060 POTENTIALS AND CONSTRAINTS OF URBAN POLDER DEVELOPMENT IN JAKARTA, INDONESIA. CASE STUDY: RAWA BADAQ POLDER
HARYO ISTIANTO, FRANSISCUS XAVERIUS SURYADI, SUMI AMARIENA HAMIM
- 2b-1c 02-07-1445 HYDRAULIC DESIGN OF HONG KONG WEST DRAINAGE TUNNEL
ANIL KUMAR, WONG CHIN TO LOUIS, RAYMOND TAI
- 2b-1d 02-07-1448 MODELLING TSUNAMI-GENERATED DEBRIS FLOW IN URBAN ENVIRONMENTS
RICARDO B. CANELAS, DANIEL CONDE, ORLANDO GARCIA FEAL, RUI M.L. FERREIRA
- 2b-1e 02-07-0515 DECENTRALIZED APPROACH FOR OPTIMAL EFFICIENCY OF MULTIPLE DETENTION RESERVOIRS IN URBAN AREA
THI THUY NGO, DO GUEN YOO, JOONG HONG KIM
- 2b-1f 02-07-0206 URBAN POLDER DEVELOPMENT RELATED TO FLOOD PROTECTION IN KOTA LAMA, SEMARANG AS PROPOSED UNESCO HERITAGE
FAJAR BASKORO WICAKSONO, FRANSISCUS XAVERIUS SURYADI, ARIE SETIADI MOERWANTO

TECHNICAL SESSION 2G

THEME 2: FLOOD MANAGEMENT

Monday, 14th August 2017

4.30 PM - 6 PM

ROOM: Negeri Sembilan

CHAIR: Ir. Chun Kiat Chang

- 2d-1a 02-06-1359 PROPOSITION OF FLASH FLOOD FRAMEWORK USING OBJECT ORIENTED BAYESIAN APPROACH
QUAN LIU, BRAHIM BOUTKHAMOUINE, AYELEY TCHANGANI, HELENE ROUX, FRANÇOIS PERES
- 2d-1b 02-09-0120 DEBRIS DYNAMICS AND ASSOCIATED LOADS IN EXTREME HYDRODYNAMIC CONDITIONS
JACOB STOLLE, NILS GOSEBERG, CAREN DERSCHUM, IOAN NISTOR, EMIL PETRIU
- 2d-1c 02-09-0253 TRADITIONAL TECHNIQUE IN JAPAN TO PREVENT BRIDGE BLOCKAGES CAUSED BY DRIFTWOOD USING STAKES
NORIO HARADA, KANA NAKATANI, YOSHIFUMI SATOFUKA, TAKAHISA MIZUYAMA
- 2d-1d 02-09-1325 PLANNING STRATEGIES FOR FLOOD DISASTER RISK PREVENTION WITH HUMAN BEHAVIOR MODELS
NEILER MEDINA, ARLEX SANCHEZ, ZORAN VOJINOVIC
- 2d-1e 02-09-0646 EVALUATION OF EMPIRICAL EQUATIONS FOR DAM BREACH PARAMETERS AND ITS APPLICATION IN INDIAN DAM FAILURE CASES
SACHIN DHIMAN, KHANHU CHARAN PATRA
- 2d-1f 02-09-0951 SUBWAY INUNDATION BY FLUVIAL FLOODING AND EVACUATION FROM SUBWAY STATIONS
MITSUHIRO TERADA, TAISUKE ISHIGAKI, TAIRA OZAKI, YASUYUKI BABA, KEIICH TODA

TECHNICAL SESSION 2H

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Monday, 14th August 2017

4.30 PM - 6 PM

ROOM: Pahang

CHAIR: Dr. Wai Sam Wong

- 1a-2a 01-01-0405 SIMULATING GEOBAG REVETMENT FAILURE PROCESSES
LEILA KHAJENOORI, GRANT WRIGHT, MARTIN CRAPPER
- 1a-2b 01-01-0435 DEVELOPING A NEW STATISTICAL MODEL TO ESTIMATE THE RIVER QUALITY PERSPECTIVE FROM MACRO PARAMETERS IN RIVER BASINS, CASE STUDY: SIMINEHROOD RIVER BASIN, IRAN
FARSHID BOSTANMANESH RAD, SADEGH PARTANI, ROOHOLLAH NOORI
- 1a-2c 01-01-1008 FLOW STRUCTURE AT CONFLUENT MEANDER BEND CHANNEL
SHEHUA HUANG, BIN SUI
- 1a-2d 01-01-1058 INFORMAL SETTLEMENTS ENCROACHMENT ALONG THE MAJOR RIVERS AND CREEKS: A MAJOR OBSTACLE IN ADDRESSING DRAINAGE PROBLEM AND FLOODING IN THE CENTRAL CLUSTER OF METRO CEBU, PHILIPPINES
JOAN ARCE JAQUE, MA. DOLORES V. LLENOS
- 1a-2e 01-01-1059 AN ECOLOGICAL RESTORATION FRAMEWORK FOR LOWLAND FLOOD CHANNEL IN HONG KONG
YAO WANG, ONYX W.H. WAI
- 1a-2f 01-01-1133 THE ROOTS OF RIVER RESTORATION: ROLE OF VEGETATION RECOVER IN BED STABILIZATION
ANDREA ANDREOLI, GIAN BATTISTA BISCHETTI, ENRICO CHIARADIA, ALESSIO CISLAGHI, FRANCESCO COMITI

TECHNICAL SESSION 2I

THEME 7: HYDROINFORMATICS / COMPUTATIONAL METHODS AND EXPERIMENTAL METHODS

Monday, 14th August 2017

4.30 PM - 6 PM

ROOM: Perak

CHAIR: Prof. Dr. Adrian Lai

- 7c-1a 07-33-0813 PRESSURE MANAGEMENT OF WATER DISTRIBUTION NETWORKS FOR INCREASING WATER AVAILABILITY AND DECREASING WATER LOSS
FARHAD YAZDANDOOST, ARDALAN IZADI
- 7c-1b 07-33-1038 FLOWCV - AN OPEN-SOURCE TOOLBOX FOR COMPUTER VISION APPLICATIONS IN TURBULENT FLOWS
DANIEL B. BUNG, DANIEL VALERO
- 7c-1c 07-33-0846 WALL FUNCTIONS FOR BOUNDARY ROUGHNESS PREDICTION IN UNIFORM CHANNEL FLOWS
ISMAIL AYDIN
- 7c-1d 07-33-1233 COMPUTATIONAL FLUID DYNAMICS MODELLING OF A ROMAN DROP SHAFT
HALLIE THORNBURROW, PAUL RODRIGUE, VINCENT H. CHU
- 7c-1e 07-33-1415 EXPERT SYSTEM FOR CALIBRATION OF WATER SUPPLY NETWORK SIMULATION MODEL
TOMASZ BOCZAR, DARIUSZ ZMARZLY, PAWEL FRACZ
- 7c-1f 07-33-1243 DECISION-SUPPORT SYSTEM FOR UNDERPINNING COLLABORATIVE PLANNING FOR MULTI-HAZARD MITIGATION
HAOWEN XU, HAIDER HAMEED, MARY WINDSOR, MARIAN MUSTE, IBRAHIM DEMIR, JASON SMITH, TOBY HUNEMULLER, MARYBETH STEVENSON

TECHNICAL SESSION 2J

THEME 6: WATER RESOURCES MANAGEMENT

Monday, 14th August 2017

4.30 PM - 6 PM

ROOM: Perlis

CHAIR: Dr. Saim Suratman

- 6e-1a 06-30-0504 EVALUATION OF DIFFERENTIAL EVOLUTION AND PARTICLE SWARM OPTIMIZATION ALGORITHMS ON SOLVING THE CONSTRUCTION SITE DEWATERING PROBLEMS
MUSTAFA TAMER AYVAZ
- 6e-1b 06-30-0079 SURFACE WATER - GROUNDWATER INTERACTIONS
TABEA BROECKER, JONAS SCHAPER, FATIMA EL-ATHMAN, MIKAEL GILLEFALK, SABINE HILT, REINHARD HINKELMANN
- 6e-1c 06-30-0679 QUANTIFICATION OF IRRIGATION EFFECT ON THE GROUNDWATER RECHARGE IN CROP FIELDS OF THE SUBTROPICAL ISLAND, JAPAN
KOZUE YUGE, MITSUMASA ANAN, KOSUKE HAMADA
- 6e-1d 06-30-0971 SEASONAL GROUNDWATER LEVEL FLUCTUATIONS IN SUKHUMA DISTRICT OF SOUTHERN LAOS
SINXAY VONGPHACHANH, WILLIAM MILNE-HOME, ASHIM DAS GUPTA, JAMES E. BALL
- 6e-1e 06-30-1606 DELINEATION OF SULPHATE AND NITRATE SOURCE IN KUWAIT GROUNDWATER USING ENVIRONMENTAL ISOTOPES
HARISH BHANDARY, MOHAMED AL-SENAFY
- 6e-1f 06-30-1281 EVALUATION OF GROUNDWATER SUSTAINABILITY IN A MULTILAYER AQUIFER
IMAN KARIMIRAD, KUMARS EBRAHIMI, SHAHAB ARAGHINEJAD

TECHNICAL SESSION 2K

THEME 4: COASTAL, ESTUARIES AND LAKES MANAGEMENT

Monday, 14th August 2017

4.30 PM - 6 PM

ROOM: Pulau Pinang

CHAIR: Ir. Dr. Fang Yenn Teo

- 4a-1a 04-16-0145 EFFECTS OF THE LARGE-SCALE RECLAMATION OF TIDAL FLATS ON THE HYDRODYNAMIC CHARACTERISTICS, SEDIMENT TRANSPORT AND TOPOGRAPHY IN THE JIAOJIANG ESTUARY, CHINA
WEIQI DAI, JIANFENG TAO, KUN ZHAO, QIN ZHANG, YU KUAI
- 4a-1b 04-16-0359 BED LOAD CHANGES IN ESTUARY DUE TO SEA LEVEL RISE AND HYDRODYNAMIC REACTION
ANIZAWATI AHMAD, WAN HANNA MELINI WAN MOHTAR, NOR ASLINDA AWANG
- 4a-1c 04-16-1067 STUDY AND MODELING OF CROSS-SHORE SEDIMENT TRANSPORT AT ZARABAD FISHERY PORT
MOHAMMAD TABASI, MOHSEN SOLTANPOUR, MANTRIPATHI PRABATH RAVINDRA JAYARATNE
- 4a-1d 04-16-1099 SATELLITE DERIVED NEAR-SHORE BATHYMETRY USING A MACHINE LEARNING APPROACH
ANKITA MISRA, ZORAN VOJINOVIC, BALAJI RAMAKRISHNAN, ARJEN LUIJENDIJK, ROSHANKA RANASINGHE
- 4a-1e 04-16-0734 INVESTIGATION OF EVOLUTION OF YELLOW RIVER DELTA (1976 TO 2014)
SHASHA HAN, SHAN ZHENG, YUNXING SHI
- 4a-1f 04-16-0942 EVALUATION OF LONGSHORE SEDIMENT TRANSPORT RATE ALONG THE THU BON RIVER DELTA COASTLINES IN VIET NAM
HITOSHI TANAKA, DINH VAN DUY, NGUYEN TRUNG VIET

TECHNICAL SESSION 3A

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Tuesday, 15th August 2017

9.30 AM - 11 AM

ROOM: TDI-A

CHAIR: Prof. Joseph H.W. Lee

- 1b-3a 01-02-0729 GENERATION MECHANISM OF DEEP SCOUR AROUND A NARROWED SECTION IN RIVERS
YUJI HARA, AKIHIRO TOMINAGA, YUKA KUNO, NAOHIKO SASSA
- 1b-3b 01-02-0545 ENHANCEMENT OF SEDIMENT TRANSPORTATION BY INCREASING SCOUR AROUND A SQUARE PIER WITH VANE ATTACHED ON ONE SIDE
SUBHASISH DAS, RITAM MUKHERJEE, RAJIB DAS, ASIS MAZUMDAR
- 1b-3c 01-02-1203 LARGE AND VERY LARGE SCALE MOTIONS IN ROUGH-BED OPEN-CHANNEL FLOW
STUART CAMERON, VLADIMIR NIKORA, MARK STEWART
- 1b-3d 01-02-0061 EFFECT OF POSITIVE STEP LOCATION ON SCOUR DOWNSTREAM THE BASIN OF MULTI-VENTS REGULATOR
YASSER A. MOUSSA, MOHAMED A. AWAD
- 1b-3e 01-02-0736 MORPHOLOGICAL ADJUSTMENT OF THE NORTH FORK TOUTLE RIVER, WASHINGTON STATE AND THE APPLICATION OF THE STREAM EVOLUTION MODEL
SHAN ZHENG, COLIN R. THORNE, SHASHA HAN, BAOSHENG WU
- 1b-3f 01-02-0030 EFFECT OF RIVER CURVATURE ON SCOUR PROCESS IN CORRESPONDENCE WITH ARCHED SILLS
MICHELE PALERMO, STEFANO PAGLIARA

TECHNICAL SESSION 3B

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Tuesday, 15th August 2017

9.30 AM - 11 AM

ROOM: TDI-B

CHAIR: Dr. Stefan Felder

- 1d-3a 01-04-0129 A SPH SEDIMENT MODEL FOR SCOURING
ALEX GHAITANELLIS, DAMIEN VIOLEAU, AGNES LEROY, MARTIN FERRAND, ANTOINE JOLY, KAMAL EL KADI ABDERREZZAK
- 1d-3b 01-04-0067 SCOUR AROUND BRIDGE ABUTMENTS UNDER UNSTEADY FLOWS
JIAN HAO HONG, RAJKUMAR V. RAIKAR, ANAND R. DESHMUKH, WEN DAR GUO
- 1d-3c 01-04-0434 SCOUR AND HYDRODYNAMIC EFFECTS OF DEBRIS BLOCKAGE AT MASONRY BRIDGES: INSIGHTS FROM EXPERIMENTAL AND NUMERICAL MODELLING
MOHSEN EBRAHIMI, RECEP KAHRAMAN, PRAKASH KRIPAKARAN, SLOBODAN DJORDJEVIĆ, GAVIN TABOR, DUŠAN M. PRODANOVIĆ, SCOTT ARTHUR, MATTHEW RIELLA
- 1d-3d 01-04-0302 ON PERMEABILITY AND ROUGHNESS EFFECTS IN FLOW PAST A ROW OF CIRCULAR CYLINDERS ARRANGED ALONG THE CENTERLINE OF A STRAIGHT FLUME
SATOSHI YOKOJIMA, RYOSUKE ASAOKA, KOUDAI YOSHINO, HIROSHI NODA, TAKASHI MIYAHARA
- 1d-3e 01-04-0425 CONTROL OF LOCAL SCOUR AT VICINITY OF BRIDGE PIERS USING FLOW DIVERSION STRUCTURE
MOHSEN RANJBAR ZAHEDANI, ALIREZA KESHAVARZI, HADI KHABBAZ
- 1d-3f 01-04-0868 EXPERIMENTAL STUDY ON FLOW CHARACTERISTICS IN ADJUSTMENT AND WAKE REGION AROUND A MODEL PATCH OF VEGETATION
DAN WANG, FENG LI, ZHI JIE LI, WEN QI LI, KE JUN YANG

TECHNICAL SESSION 3C

THEME 3: ENVIRONMENTAL HYDRAULICS AND INDUSTRIAL FLOWS

Tuesday, 15th August 2017

9.30 AM - 11 AM

ROOM: DTHO

CHAIR: Prof. Panayotis Yannopoulos

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|-------|------------|---|
| 3a-3a | 03-11-0298 | EXPERIMENTAL STUDY ON IMPACTS OF HYDRODYNAMIC CONDITION ON GROWTH OF MICROCYSTIS AERUGINOSA
<i>YANG SONG, LINGLEI ZHANG, JIA LI, MIN CHEN, YAOWEN ZHANG</i> |
| 3a-3b | 03-11-0680 | CAN DAM MANAGEMENT OFFSET IMPACTS OF CLIMATIC VARIABILITY ON AQUATIC HABITAT?
<i>ROHAN BENJANKAR, DANIELE TONINA, MOHAMMAD M. SOHRABI, JAMES A. MCKEAN, QUIWEN CHEN, DMITRI VIDERGAR</i> |
| 3a-3c | 03-11-0576 | FREE SURFACE TURBULENT FLOW AROUND SINGLE BOTTOM MOUNTED CUBE AT LOW RELATIVE SUBMERGENCE
<i>KEN VUI CHUA, RICHARD MCSHERRY, THORSTEN STOESSER</i> |
| 3a-3d | 03-11-1285 | DRAG AND REYNOLDS STRESS DISTRIBUTION WITHIN SUBMERGED VEGETATION CANOPIES
<i>NINA NIKORA</i> |
| 3a-3e | 03-11-0998 | 3D HYDRODYNAMIC-HABITAT MODELLING FOR PREDICTION OF YELLOW PERCH HABITAT
<i>PARNA PARSAPOUR-MOGHADDAM, COLIN D. RENNIE, CHRIS K. ELVIDGE, STEVEN J. COOKE</i> |
| 3a-3f | 03-11-0224 | DISCHARGE PREDICTION MODEL FOR SIMPLE CONICAL FLUMES IN TRAPEZOIDAL CANALS
<i>ANIRUDDHA D. GHARE, AVINASH D. VASUDEO, AVINASH M. BADAR</i> |

TECHNICAL SESSION 3D

THEME 6: WATER RESOURCES MANAGEMENT

Tuesday, 15th August 2017

9.30 AM - 11 AM

ROOM: Johor/Kedah

CHAIR: Prof. Jorg Imberger

- 6a-3a 06-26-0176 CHALLENGE IN FLOOD FORECASTING USING RATING CURVE OF UNSTABLE RIVER SYSTEMS: THE BRAHMAPUTRA
MD ATIKUL ISLAM, JAMES E. BALL, ASIF M. ZAMAN, S M MAHBUBUR RAHMAN
- 6a-3b 06-26-0726 MALAYSIAN NATIONAL WATER BALANCE SYSTEM (NAWABS) FOR IMPROVED RIVER BASIN MANAGEMENT: CASE STUDY IN THE MUDA RIVER BASIN
MOHD. RAZALI HUSAIN, ASNOR MUIZAN ISHAK, NURHAREZA REDZUAN, TERRY VAN KALKEN, KATHERINE BROWN
- 6a-3c 06-26-0771 ENERGY CONSUMPTION RELATED WATER DEMAND MANAGEMENT IN WUXI CITY: A FORECAST
YIHONG XIAO, JIANGYU DAI, SHIQIANG WU, XINGHUA XIE, BENYOU JIA, GUOYI HAN, WEINBERG JOSH
- 6a-3d 06-26-0990 A MODEL BASED APPROACH FOR DEALING WITH UNCERTAINTIES IN URBAN WATER SECURITY
FEBYA NURNADIATI, JOS TIMMERMANS, IWAN K. HADIHARDAJA, WIL THISSEN
- 6a-3e 06-26-0808 ON THE INFLUENCE OF LATERAL FLOWS ON THE UNCERTAINTY OF UNSTEADY OPEN CHANNEL FLOWS IN MOUNTAINOUS RIVERS
KEYUE CHEN, HUAN-FENG DUAN, XUFENG YAN, XIEKANG WANG, XINGNIAN LIU
- 6a-3f 06-26-0921 A STUDY ON THE EFFECTS OF FUTURE CLIMATE CHANGE ON WATER RESOURCES IN THE TOYOHIRA RIVER BASIN BASED ON A STATISTICAL DOWNSCALING METHOD
YOKO TANIGUCHI, MAKOTO NAKATSUGAWA, KEIGO OTANI

TECHNICAL SESSION 3E

THEME 2: FLOOD MANAGEMENT

Tuesday, 15th August 2017

9.30 AM - 11 AM

ROOM: Kelantan CHAIR: Datuk Ir. Hj Ahmad Jamalluddin Shaaban

- 2c-2a 02-08-0138 USING A MIXED SIMULATION-OPTIMIZATION METHOD FOR MULTI-RESERVOIR FLOOD CONTROL OPERATION
XINYU WAN, YANGYANG ZHANG, YANDONG JING, MIAOYAN SUN, PING'AN ZHONG
- 2c-2b 02-08-0339 REDUCING CALIBRATION DEPENDENCY IN RUNOFF ESTIMATION BY SYSTEMATIC DEVELOPMENT OF DISTRIBUTED HYDROLOGIC MODEL IN FLOOD MODELLING
ABD JALIL HASSAN, NORHAN ABD RAHMAN, SOBRI HARON, TARMIZI ISMAIL
- 2c-2c 02-08-0686 THE EFFECTIVENESS OF FLOOD DEFENSE FORESTS AS THE FLOOD CONTROL IN THE LOWER REACH OF GOUNOKAWA RIVER
KENTARO AOKI, MASA HARU FUJITA
- 2c-2d 02-08-1397 EXPERIMENTS STUDY OF THE FLOOD SUPERPOSITION EFFECT DUE TO CASCADE DAM BREAK
HUO JIAN LIU, YUN LI, XIAO GANG WANG, GUO XIANG XUAN, LONG ZHU
- 2c-2e 02-08-0699 EXPERIMENTAL STUDY OF HYDRAULIC JUMP CHARACTERISTICS IN DIVIDING FLOW OF URBAN STREETS
QI ZHOU, CHUNBO JIANG, JIAN LIU, WANGYANG YU, ALBERT S. CHEN
- 2c-2f 02-08-1216 FLOOD RISK MANAGEMENT IN PANAWA, SRI LANKA USING FLOOD MODELLING
B.S.K. DE SILVA, P.S.D. ALUWIHARE, J. CHANDIMALA

TECHNICAL SESSION 3F

THEME 4: COASTAL, ESTUARIES AND LAKES MANAGEMENT

Tuesday, 15th August 2017

9.30 AM - 11 AM

ROOM: Melaka

CHAIR: Prof. Ahmad Khairi Abd Wahab

- 4c-2a 04-18-0292 SEDIMENTARY AND HYDRODYNAMIC PROCESSES OF TIDAL BORES: SILTATION OF THE ARCINS CHANNEL, GARONNE RIVER (FRANCE)
DAVID REUNGOAT, XINQIAN LENG, HUBERT CHANSON
- 4c-2b 04-18-0058 PRELIMINARY ANALYSIS ON EVOLUTION OF PEARL RIVER ESTUARY
JIA QUAN DENG, HUI DENG
- 4c-2c 04-18-0499 EXAMINATION AND RECALIBRATION OF EMPIRICAL FORMULAS FOR COMPUTING SHOALING WAVE HEIGHTS
WINYU RATTANAPITIKON, SUWIMOL KANOKRATTANANUKUL
- 4c-2d 04-18-1205 CHANGING SALINITY INTRUSION DUE TO ESTUARINE WATERWAY DEEPENING - ANALYSIS BASED ON ARTIFICIAL NEURAL NETWORKS
CORDULA BERKENBRINK, HANZ D. NIEMEYER
- 4c-2e 04-18-0432 EVALUATION ON RELATIONSHIP BETWEEN PARTICULATE TOTAL MERCURY IN SEAWATER AND SUSPENDED SOLIDS PARTICLE SIZE DISTRIBUTION IN MINAMATA BAY, JAPAN
SHINICHIRO YANO, TAKAAKI TANINAKA, EDISTRI NUR FATHYA, SATOSHI MATSUMOTO, AKITO MATSUYAMA, AKIHIDE TADA, HERAWATY RIOGILANG
- 4c-2f 04-18-0615 HYDRODYNAMIC MODELLING OF SINGAPORE AND MALACCA STRAITS FOR OPERATIONAL FORECAST AND MANAGEMENT
SERENE H. X. TAY, ALAMSYAH KURNIAWAN, SENG KEAT OOI, VLADAN BABOVIC

TECHNICAL SESSION 3G

THEME 7: HYDROINFORMATICS / COMPUTATIONAL METHODS AND EXPERIMENTAL METHODS

Tuesday, 15th August 2017

9.30 AM - 11 AM

ROOM: Negeri Sembilan

CHAIR: Dr. Nils Goseberg

- 7d-2a 07-34-0127 SWING GATE GENERATED DAM-BREAK WAVES
NILS GOSEBERG, JACOB STOLLE, CAREN DERSCHUM, IOAN NISTOR
- 7d-2b 07-34-0018 WHY MOVING-BOAT ADCP STREAMFLOW MEASUREMENT DOES NOT REQUIRE A STRAIGHT-LINE PATH?
HENING HUANG
- 7d-2c 07-34-0117 SCOURING AT THE INTERFACE BETWEEN FIXED AND MOBILE BED IN STEEP SLOPED CHANNELS
FABIAN FRANZINI, TZU YIN CHEN, HERVÉ CAPART, SANDRA SOARES-FRAZÃO
- 7d-2d 07-34-0035 A REVIEW ON CLIMATE CHANGE IN WEATHER STATIONS OF GUILAN PROVINCE USING MANN-KENDAL METHOD AND GIS
JALAL BEHZADI
- 7d-2e 07-34-0597 FIELD MEASUREMENTS OF THE ABSOLUTE PRESSURE DISTRIBUTION ACTING ON BED MATERIAL
RYOTA TSUBAKI, YUJI TODA, MASAYA MIYAMOTO
- 7d-2f 07-34-0361 STRUCTURE FROM MOTION IN HYDRAULIC LABORATORIES: TOPOGRAPHICAL SURVEYS USING SUBMERGED IMAGE ACQUISITION
MARKUS NOACK, RENÉ LORENZ, GERHARD SCHMID, SILKE WIEPRECHT

TECHNICAL SESSION 3H

THEME 6: WATER RESOURCES MANAGEMENT

Tuesday, 15th August 2017

9.30 AM - 11 AM

ROOM: Pahang

CHAIR: Prof. Amir Hashim Mohd Kassim

- 6b-1a 06-27-0254 ECOLOGICAL COMPENSATION SYSTEM AND COMPENSATION EFFICIENCY MEASUREMENT OF RIVER BASIN: A CASE FROM CHINA
ZHANG SHUANG, FENG SHI, YIN JING
- 6b-1b 06-27-0456 RIVERBANK FILTRATION (RBF) INDEX AND EFFECTIVENESS OF RBF AT WEST MALAYSIA
MOHD KHAIRUL NIZAR SHAMSUDDIN, WAN NUR AZMIN SULAIMAN, MOHAMMAD FIRUZ RAMLI, FARADIELLA MOHD KUSIN, ANUAR SEFIE, AZRUL NORMI, ISMAIL TAWNIE
- 6b-1c 06-27-1204 WATER SUPPLY MANAGEMENT IN SMALL CITY DURING DRY SEASON
AGUS SUHARYANTO
- 6b-1d 06-27-1047 DESIGN OF OPTIMAL WATER DISTRIBUTION SYSTEMS USING WATERGEMS: A CASE STUDY OF SURAT CITY
DARSHAN J. MEHTA, VIPIN YADAV, SAHITA I. WAIKHOM, KEYUR J. PRAJAPATI
- 6b-1e 06-27-0886 CLARIFICATION OF WATER SOURCES THROUGH RIVERBED FILTRATION (RBEF) MODEL: TURBIDITY, COLOUR AND SUSPENDED SOLIDS REMOVAL
NOOR AMIZA AB AZIZ, MOHAMAD FARED MURSHED, MOHD NORDIN ADLAN
- 6b-1f 06-27-0819 RESEARCH ON THE HEALTH DIAGNOSE OF WATER CONSUMPTION AND THE REGULATING MODEL OF HIGH EFFICIENT WATER USE ON LARGE WATER SHORTAGE CITY IN BEIJING CITY
LIZHEN WANG, YONG ZHAO, HAIHONG LI, YONGNAN ZHU, FAN HE, JIAQI ZHAI, GUOHUA HE

TECHNICAL SESSION 3I

THEME 3: ENVIRONMENTAL HYDRAULICS AND INDUSTRIAL FLOWS

Tuesday, 15th August 2017

9.30 AM - 11 AM

ROOM: Perak

CHAIR: Prof. Van-thanh-van Nguyen

- 3b-1a 03-12-0790 INSTREAM FLOW ANALYSIS AND ECOLOGICAL FLOW PREDICTION AT THE DOWNSTREAM OF SUNGAI LEMOI INTAKE
SHANKER KUMAR SINNAKAUDAN, AISAH MD SHUKOR, MOHD RIZAL SHUKOR, MAISARAH ABD GHANI, SHAHRIL MOD HUSIN
- 3b-1b 03-12-0275 STUDY ON THE CONSTRUCTION TECHNOLOGY OF ARTIFICIAL ECOSYSTEM IN THE CONTROL OF CYANOBACTERIA IN THE VALLEY RESERVOIR
LIQIANG XU, HAIXIA YU, HUAN LUO, FANG YANG
- 3b-1c 03-12-0830 ASSESSING THE INFLUENCE OF TERRAIN CHARACTERISTICS ON SPATIAL DISTRIBUTION OF SATELLITE DERIVED LAND SURFACE PARAMETER IN MOUNTAINOUS AREAS
TAOFEEQ SHOLAGBERU ABDULKADIR, MUHAMMAD RAZA UL MUSTAFA, WAN YUSOF KHAMARUZAMAN, AHMAD MUSTAFA HASHIM
- 3b-1d 03-12-1328 EXPERIMENTAL STUDY ON A SUSTAINABLE SEAWATER PURIFICATION SYSTEM BUILT IN QUAYS USING PURIFYING FUNCTIONS OF MICROORGANISMS AND TIDAL ENERGY IN CLOSED SEA AREAS
KAZUHIDE DAN, YURIE KOBAYASHI, MASAKI KAKITA
- 3b-1e 03-12-1437 THE DISTRIBUTION OF PHOSPHORUS UPTAKE ON BED SEDIMENTS AT A 90-DEGREE CHANNEL CONFLUENCE
YANG XIA, SAI-YU YUAN, YANG XIAO, HONG-WU TANG
- 3b-1f 03-12-1001 A CASE STUDY OF WATER SYSTEM TO SUPPORT LAND RECLAMATION USING BIOENGINEERING METHOD ON COASTAL AREA IN BANTUL REGENCY, DIY
HARYO JAYENG RONO, JOKO SUJONO, RACHMAD JAYADI, INTAN SUPRABA

TECHNICAL SESSION 3J

THEME 5: URBAN WATER MANAGEMENT

Tuesday, 15th August 2017

ROOM: Perlis

9.30 AM - 11 AM

CHAIR: Dr. Amin Talei

- 5b-1a 05-22-0322 THE EFFECT OF ENVIRONMENTAL CHARACTERISTICS ON THE QUALITY OF WATER IN THE BASIN CAPLINA - TACNA (PERU)
PINO V. EDWIN, TACORA V. PRÍNCIPE, STEENKEN ANDRÉ, ALFARO R. LUIS, BEDOYA J. CONRADO, VALLE C. ANGELY
- 5b-1b 05-22-0336 INVESTIGATION OF DESIGN FLOW IN SEPARATE SEWER SYSTEMS OF KUANTAN, PAHANG
SU KONG NGIEN, HIEW THONG YAP, LIT KEN TAN, CHEE MING CHOO
- 5b-1c 05-22-1023 HYDROLOGIC PERFORMANCE OF A BIORETENTION BASIN AFFECTED BY GROUNDWATER INTRUSION
CARLOS OCAMPO, CAROLYN OLDHAM
- 5b-1d 05-22-1601 QUALITY AND FIRST FLUSH ASSESSMENT OF URBAN HIGHWAY STORMWATER RUNOFF IN MALAYSIA
MING FAI CHOW, SITI ANIEZA HASIM, CLINTON PAUL VUN PHAU, NAJIHASUHADA ABI JIHAT
- 5b-1e 05-23-0121 DURATION OF HYDRAULIC FLUSHING AND ITS EFFECT ON SEDIMENT BED MOVEMENT
CHARLES HIN JOO BONG, TZE LIANG LAU, AMINUDDIN AB. GHANI
- 5b-1f 05-23-1559 PHYSICAL TEST METHOD RESEARCH ON COUNTERMEASURES FOR SEDIMENT DEPOSITION IN INTERCEPTING DRAINAGE CULVERT SYSTEM
XIANG-YANG TU, XIAO-MING WU, MEN-WU WU, YONG HE, YU-GUI YANG, ZHENG ZHENG, SHI-YOU GAO, XIAO-LEI TONG

SPECIAL SESSION 1A

TOPIC: TRANSIENTS IN PIPES

Tuesday, 15th August 2017

9.30 AM - 11 AM

ROOM: Pulau Pinang

CHAIR: Prof. Silvia Meniconi and Prof. Moez Louati

- 8a-1a 08-36-0803 FAULT DETECTION IN A REAL TRANSMISSION MAIN BY THE PORTABLE PRESSURE WAVE MAKER (PPWM)
SILVIA MENICONI, BRUNO BRUNONE, MATTEO FRISINGHELLI, CATERINA CAPPONI, ELISA MAZZETTI
- 8a-1b 08-36-0596 DYNAMICS OF FRICTIONAL WATER HAMMER - THEORY AND FIELD TESTS
JIM C. P. LIOU, BRUNO BRUNONE, SILVIA MENICONI
- 8a-1c 08-36-1399 SOME INTRIGUING ASPECTS OF BOUNDARY CONDITIONS IN WATER HAMMER
ARRIS S. TIJSSELING, ALAN E. VARDY
- 8a-1d 08-36-1561 DEVELOPMENT AND EVALUATION OF MESHLESS PARTICLE METHODS FOR MODELLING AND ANALYSIS OF TRANSIENT PIPE FLOWS
HUAN-FENG DUAN, HEXIANG YAN, FEI LI, QINGZHI HOU, TAO TAO, KUNLUN XIN, SHUPING LI
- 8a-1e 08-36-1452 MONITORING OF PIPE LEAKAGE BASED ON EMPIRICAL MODE DECOMPOSITION AND AUTOMATIC SELECTION OF INTRINSIC MODE FUNCTION
MUHAMMAD HANAFI YUSOP, MOHD FAIRUSHAM GHAZALI, MOHD FADHLAN MOHD YUSOF, MUHAMMAD AMINUDDIN PIREMLI
- 8a-1f 08-36-1624 LEAK-INDUCED FREQUENCY SHIFTS IN TRANSIENT-BASED FREQUENCY DOMAIN METHOD FOR LEAKAGE DETECTION
JINGRONG LIN, MOHAMED S. GHIDAOUJ

TECHNICAL SESSION 4A

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Tuesday, 15th August 2017

11.30 AM - 1 PM

ROOM: TDI-A

CHAIR: Prof. Sung-uk Choi

- 1b-4a 01-02-0583 MORPHOLOGICAL SCALE EXPERIMENTS TO LINK RIVER BED STRUCTURE WITH RIVERINE VEGETATION
JÜRGEN STAMM, NADINE MÜLLER, SARAH-CHRISTIN MIETZ
- 1b-4b 01-02-0535 CALIBRATION AND DISCHARGE MEASUREMENT USING 0.127 METRE (5") PARSHALL FLUME
ASIS MAZUMDAR, PRASUN DUTTA, MILAN NAYEK, SUBHASISH DAS, RAJIB DAS
- 1b-4c 01-02-0296 PHYSICAL MODELLING OF THE FLUVIAL PROCESS OF THE YANGJIANAO-BEINIANJIWAN REACH IN THE MIDDLE YANGTZE RIVER DOWNSTREAM OF THE TGP
YONGHUI ZHU, MING TAO, LI HUANG, LIHUA GU
- 1b-4d 01-02-0585 INFLUENCE OF BED-LOAD TRANSPORT ON THE DESIGN OF FLOOD PROTECTION AND RETENTION MEASURES IN GRAVEL-BED RIVERS – APPLICATION OF HYDRO_FT-2D FOR THE TYROLEAN INN RIVER
KATHARINA BAUMGARTNER, BERNHARD GEMS, STEFAN WALDER, MARKUS FEDERSPIEL, MARKUS AUFLEGER
- 1b-4e 01-02-0333 APPLICATION OF ACOUSTIC DOPPLER TECHNOLOGY IN ESTIMATING SUSPENDED SEDIMENTS
DANIEL WAGENAAR, XUE FAN
- 1b-4f 01-02-0564 EULERIAN-LAGRANGIAN SIMULATION OF BED-MATERIAL LOAD TRANSPORT AROUND PERMEABLE AND IMPERMEABLE SPUR DYKES
KAZUYUKI OTA, HAJIME NAKAGAWA, HAO ZHANG

TECHNICAL SESSION 4B

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Tuesday, 15th August 2017

11.30 AM - 1 PM

ROOM: TDI-B

CHAIR: Prof. Dr. Robert Ettema

- 1d-4a 01-04-0271 EFFECT OF INTERMITTENT TURBULENT BURSTS ON SEDIMENT RESUSPENSION IN LARGE SHALLOW LAKES
YIPING LI, CHUNYAN TANG, KUMUD ACHARYA, WEI DU, JIN WEI
- 1d-4b 01-04-0080 NUMERICAL INVESTIGATION OF STEP DIMENSIONS IMPACT OVER GABION STEPPED SPILLWAYS
ALI ADEL ZUHAIRA, HARSHINIE KARUNARATHNA, DOMINIC E. REEVE
- 1d-4c 01-04-0104 VELOCITY PROFILE IN A SEDIMENT-LADEN FLOW THROUGH MIXING LENGTH APPROACH
KOELI GHOSHAL, MANOTOSH KUMBHAKAR
- 1d-4d 01-04-0627 TYPE OF DAMAGE AND THE PROPOSED SOLUTION TO THE IRRIGATION WEIRS IN MADURA ISLAND, INDONESIA
TATAS ., MUHAMMAD HAFIIZH IMAADUDDIIN, DIMAS P. DIBIANTARA
- 1d-4e 01-04-0113 NUMERICAL MODELING OF THE FLOW ON A DAMAGED WEIR APPLICATION TO THE CAVAILLON RIVER, HAITI
OLIVIER CARLIER D'ODEIGNE, YVES ZECH, SANDRA SOARES-FRAZÃO
- 1d-4f 01-04-0645 SCALE MODEL MEASUREMENTS OF IMPACT FORCES ON OBSTACLES INDUCED BY BED-LOAD TRANSPORT PROCESSES
MICHAEL STURM, BERNHARD GEMS, MARKUS AUFLEGER, BRUNO MAZZORANA, MARIA PAPATHOMA-KÖHLE, SVEN FUCHS

TECHNICAL SESSION 4C

THEME 3: ENVIRONMENTAL HYDRAULICS AND INDUSTRIAL FLOWS

Tuesday, 15th August 2017

11.30 AM - 1 PM

ROOM: DTHO

CHAIR: Prof. Dongfang Liang

- 3a-4a 03-11-0238 A PARAMETER SENSITIVITY ANALYSIS OF MICROCYSTIS VERTICAL DISTRIBUTIONS
QIAN YU, YONGCAN CHEN, ZHAOWEI LIU, NA LI
- 3a-4b 03-11-0706 CHARACTERISTICS OF CONCRETE FILTER FOR DRINKING WATER
RIZALDI MAADJI, RADIANTA TRIATMADJA, FATCHAN NURROCHMAD, SUNJOTO .
- 3a-4c 03-11-1546 A STUDY ON CRITICAL HYDRODYNAMIC CONDITIONS FOR INDUCING SPAWNING BEHAVIOR OF FOUR MAJOR CHINESE CARPS
LEI TANG, YU QING LIN, QIU WEN CHEN, WEI JIANG, YU XIN ZHANG
- 3a-4d 03-11-0274 PREDICTION OF VERTICAL PROFILE OF STREAMWISE VELOCITY USING DOUBLE-AVERAGING METHOD
RAHMA YANDA, MORIHIRO HARADA, ICHIRO TAMAGAWA
- 3a-4e 03-11-1348 EXPERIMENTAL STUDY ON THE MULTI-LEVEL INTAKE STRUCTURE OF HYDROPOWER STATION
CAIHUAN WANG, WENGANG DUAN, DONGMEI HOU
- 3a-4f 03-11-1264 FIELD SURVEY OF MICROPLASTICS IN JAPANESE RIVERS
KOUKI KUDOU, TOMOYA KATAOKA, YASUO NIHEI, HIROFUMI HINATA

TECHNICAL SESSION 4D

THEME 6: WATER RESOURCES MANAGEMENT

Tuesday, 15th August 2017

11.30 AM - 1 PM

ROOM: Johor/Kedah

CHAIR: Prof. Haegyun Lee

- 6a-4a 06-26-0239 ESTIMATION OF DIRECT AND INDIRECT IMPACTS OF CLIMATE CHANGE ON GROUNDWATER LEVEL IN A GROUNDWATER DEPENDENT IRRIGATED REGION
GOLAM SALEM AHMED SALEM, SO KAZAMA, SHAMSUDDIN SHAHID
- 6a-4b 06-26-1123 SINGLE-RESERVOIR OPERATION OPTIMIZATION USING JAYA ALGORITHM FOR JAYAKWADI-1 DAM, INDIA
VARTIKA PALIWAL, ANIRUDDHA D. GHARE, ASHWINI B. MIRAJKAR
- 6a-4c 06-26-0420 DERIVATION OF AREAL REDUCTION FACTOR FOR STORM DESIGN APPLICATION IN MALAYSIA USING GRID-BASED APPROACHES
KAHHOONG KOK, WANSIK YU, LARIYAH MOHD SIDEK, KWANSUE JUNG
- 6a-4d 06-26-1140 A REVIEW FOR POLLUTION PROPAGATION MODELING IN RIVERS AND ITS SIGNIFICANCE FOR WATER RESOURCES MANAGEMENT
DANIELI MARA FERREIRA, CRISTOVÃO VICENTE SCAPULATEMPO FERNANDES, ELOY KAVISKI
- 6a-4e 06-26-0599 THROUGHPUT OF THE DONGTING LAKE INFLUENCED BY THE THREE GORGES RESERVOIR DURING THE PERIOD OF IMPOUNDMENT
HUA GE, LINGLING ZHU
- 6a-4f 06-26-1271 TOWARDS AN INTEGRATED MUNICIPAL WATER DEVELOPMENT: OCOTLAN DE MORELOS, OAXACA, MEXICO
FERNANDO J. GONZÁLEZ VILLARREAL, JORGE ALBERTO ARRIAGA MEDINA, JORGE IVAN JUÁREZ DEHESA

TECHNICAL SESSION 4E

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Tuesday, 15th August 2017

11.30 AM - 1 PM

ROOM: Kelantan

CHAIR: Prof. Wan Ruslan Ismail

- 1c-1a 01-03-0695 EFFECTS OF CONSTITUTIVE RELATIONS ON TURBIDITY CURRENT EVOLUTIONS
JING WANG
- 1c-1b 01-03-0453 INVESTIGATION OF TURBIDITY CURRENT VENTING FOR TWO DIFFERENT RESERVOIR BED SLOPES
SABINE CHAMOUN, GIOVANNI DE CESARE, ANTON J. SCHLEISS
- 1c-1c 01-03-0897 2D NUMERICAL SIMULATION FOR EROSION BASED MORAINES DAM FAILURE AND MORPHOLOGICAL BED EVOLUTION
SAZEDA BEGAM, DHRUBAJYOTI SEN, SUBHASISH DEY
- 1c-1d 01-03-0352 ESTIMATION OF SEDIMENT INFLOW INTO A RESERVOIR USING COMBINED APPROACH OF RAINFALL – RUNOFF MODELLING AND SEDIMENT TRANSPORT ASSESSMENT
AZWIN ABDUL RAZAD, LARIYAH MOHD SIDEK, JANSEN LUIS ALEXANDER, THAMER AHMED MOHAMED
- 1c-1e 01-03-0140 SHORT-TERM RAINFALL FORECASTING FOR LAHAR EARLY WARNING SYSTEM IN MERAPI, INDONESIA
MAGFIRA SYARIFUDDIN, SATORU OISHI, RATIH INDRI HAPSARI, YUKA ITO, DJOKO LEGONO
- 1c-1f 01-03-1113 IMPLEMENTATION OF NON-NEWTONIAN RHEOLOGY FOR DEBRIS FLOW SIMULATION WITH REEF3D
PETTER FORNES, HANS BIHS, VIKAS THAKUR, STEINAR NORDAL

TECHNICAL SESSION 4F

THEME 7: HYDROINFORMATICS / COMPUTATIONAL METHODS AND EXPERIMENTAL METHODS

Tuesday, 15th August 2017

ROOM: Melaka

11.30 AM - 1 PM

CHAIR: Prof. Wenhong Dai

- 7a-1a 07-31-0917 A 3D NUMERICAL SCHEME FOR NON-HYDROSTATIC FLOWS
FRANCESCO GALLERANO, GIOVANNI CANNATA, FRANCESCO LASAPONARA, CHIARA PETRELLI
- 7a-1b 07-31-0260 DEVELOPMENT OF SMOOTHED PARTICLE HYDRODYNAMICS METHOD TO SIMULATE WATER FLOW IN A CURVED CHANNEL
DWINANTI RIKA MARTHANTY
- 7a-1c 07-31-0027 UTILIZING GOOGLE EARTH FEATURES FOR HYDRAULIC MODEL DEVELOPMENT
KENNARD LAI, PIERRE Y. JULIEN
- 7a-1d 07-31-0307 APPLYING OBJECT-ORIENTED DESIGN CONCEPTS FOR THE COUPLED NUMERICAL SIMULATION OF SHALLOW WATER FLOW AND RELATED PROCESSES
ILHAN OZGEN, JIAHENG ZHAO, FINN AMANN, REINHARD HINKELMANN
- 7a-1e 07-31-0314 NUMERICAL SIMULATION OF CAVITATING FLOW ON STEPPED BEDS
REZA ESMAILI, SEYED ALI AKBAR SALEHI NEYSHABOURI, AMIR REZA ZARRATI
- 7a-1f 07-31-1377 TURBULENCE CHARACTERISTICS OF A SHALLOW MIXING LAYER DEVELOPING OVER 2-D DUNES
GOKHAN KIRKIL

TECHNICAL SESSION 4G

THEME 4: COASTAL, ESTUARIES AND LAKES MANAGEMENT

Tuesday, 15th August 2017

11.30 AM - 1 PM

ROOM: Negeri Sembilan

CHAIR: Prof. Ramon Gutierrez

- 4e-1a 04-20-0157 STABILITY FORMULA FOR TETRAPODS USING MULTIGENE GENETIC PROGRAMMING (MGGP)
JAE SUNG LEE, KYUNG-DUCK SUH
- 4e-1b 04-20-1310 PULL OUT CAPACITY OF SUBMERGED GABIONS
SRINEASH VIJAYA KUMAR, MURALI KANTHARAJ
- 4e-1c 04-20-0201 EXPERIMENTAL STUDY ON STABLE THICKNESS OF CONCRETE SLAB REVETMENT ON INNER SLOPE OF DIKES
WEI-QIU CHEN, DENG-TING WANG, TIAN-TING SUN, YU KUAI
- 4e-1d 04-20-0702 AN ASSESSMENT OF OPTIMIZATION ON LAND RECLAMATION DESIGN BASED ON HYDRAULIC ASPECTS
LIP SAN LEONG, CARLOS SAVIOLI JUAN, JACOB HJELMAGER JENSEN, KATHISTASAPATHY SHANMUGAPATHY, KOK SIN WOON
- 4e-1e 04-20-0631 NUMERICAL STUDY ON THE SILTATION IN THE MAIN CHANNEL OF ZHUHAI GAOLAN HARBOR CAUSED BY DREDGING AND ENGINEERING
SULAN LU, YU JIANG, XINFENG ZHANG, YUE LI
- 4e-1f 04-20-0918 NUMERICAL MODELING OF BRAGG REFLECTION OVER SEMI-CIRCULAR SUBMERGED BREAKWATERS
MOHAMMAD KAZEM SHARIFIAN, YOUSEF HASSANZADEH

TECHNICAL SESSION 4H

THEME 6: WATER RESOURCES MANAGEMENT

Tuesday, 15th August 2017

11.30 AM - 1 PM

ROOM: Pahang

CHAIR: Prof. Subhasish Dey

- 6d-1a 06-29-1170 FORECASTING OF RIVER DISCHARGE BY USING ARTIFICIAL NEURAL NETWORK MODEL: CASE STUDY, LATYAN DAM BASIN, IRAN
MOZAFAR ANSARI, FARIDAH OTHMAN, AHMED EL-SHAFIE
- 6d-1b 06-29-0284 COMPARISON ANALYSIS OF APPLICABILITY OF RUNOFF DATA EXTRACTED FROM GLDAS AND GRACE TO YARLUNG ZANGBO RIVER BASIN
HONG ZHANG, JIA LI, LINGLEI ZHANG, RUIDONG AN, YUN DENG
- 6d-1c 06-29-0308 SUSTAINABLE WATER RESOURCE MANAGEMENT AND THE UNCERTAIN ROLE OF SURFACE WATER IN LESS DEVELOPED COUNTRIES
MICHEL SOTO CHALHOUB
- 6d-1d 06-29-1105 REMOTE SENSING BASED CROP IDENTIFICATION AND ESTIMATION OF DISTRIBUTED CROP EVAPOTRANSPIRATION IN A CANAL COMMAND
DEEPAK KHARE, PRABHASH KUMAR MISHRA, ARUN MONDAL, SANANDA KUNDU
- 6d-1e 06-29-0320 RESEARCH ON ICE CONDITIONS IN THE MIDDLE YARLUNG ZANGBO RIVER BASED ON LANDSAT IMAGES
RUI CAO, YOUCAI TUO, YUN DENG, NAN LI, LINGLEI ZHANG
- 6d-1f 06-29-0571 OPERATIONAL DECISION SUPPORT SYSTEM FOR SUSTAINABLE WATER RESOURCE MANAGEMENT FOR SUNGAI SELANGOR
LEONORE BOELEE, RAZAK BAHROM, HASLINA AMIR, NOR ZAMRI SONDOR, EMMA BROWN, FAIZAH AHMAD, GEOFF WILSON

TECHNICAL SESSION 4I

THEME 3: ENVIRONMENTAL HYDRAULICS AND INDUSTRIAL FLOWS

Tuesday, 15th August 2017

11.30 AM - 1 PM

ROOM: Perak

CHAIR: Dr. Jose Rodriguez

- 3e-1a 03-15-0103 EXPERIMENT STUDY OF GRAVELS STABILITY WITH BARELY SUBMERGED AND SUBMERGED FOLIAGE PLANTS
MUXI BAO, JIANFENG TAO
- 3e-1b 03-15-0821 PHYSICAL MODELLING TESTING FOR RAM PUMP PERFORMANCE
NOOR AZME OMAR, ICAHRI CHATTA, MOHD BAHARUM MUHAMMAD DIN, MOHD FAUZI MOHAMAD, MOHD KAMARUL HUDA SAMION, AHMAD FARHAN HAMZAH, MOHD KHAIRUL NIZAR SHAMSUDDIN, MOHD RADZI ABD HAMID
- 3e-1c 03-15-0198 CAVITATION EROSION WITH CONSIDERING VISCOSITY OF AERATED FLOW
YU WANG, JIANHUA WU, FEI MA, KUNPENG SU
- 3e-1d 03-15-0383 FLOW IN MORNING GLORY SPILLWAY OF ALBORZ DAM
AMIR KHOSROJERDI, ATEFEH MOSAHEBI MOHAMMADI
- 3e-1e 03-15-0860 A PRELIMINARY STUDY FOR A FLUID STRUCTURE INTERACTION MODEL BY SMOOTHED PARTICLE HYDRODYNAMICS AND CONTACT MECHANICS
ABDULLAH DEMİR, ALİ ERSİN DİNÇER, CÜNEYT YAVUZ
- 3e-1f 03-15-0617 STUDY ON CAVITATION AND VIBRATION CHARACTERISTICS AND ANTI-CAVITATION MEASURES OF HIGH HEAD INDUSTRIAL VALVES
XIN WANG, YA-AN HU, XIU-JUN YAN, WEN-XUN QIAN, ZI-YANG LI, CHENG CHEN

SPECIAL SESSION 1B

TOPIC: TRANSIENTS IN PIPES

Tuesday, 15th August 2017

11.30 AM - 1 PM

ROOM: Pulau Pinang

CHAIR: Prof. Arturo S. Leon and Prof. Huang-Feng Duan

- 8a-2a SMART URBAN WATER SUPPLY SYSTEM (SMART UWSS)
MOHAMED S. GHIDAOU
- 8a-2b 08-36-0826 EFFECT OF LEAK SIZE ON THE TRANSIENT BEHAVIOR OF A VISCOELASTIC PIPE
SILVIA MENICONI, BRUNO BRUNONE, CATERINA CAPPONI
- 8a-2c 08-36-1417 SINGLE EXTENDED BLOCKAGE IDENTIFICATION USING A MODEL-BASED MATCHED-FIELD PROCESSING APPROACH
FEDI ZOUARI, XUN WANG, MOEZ LOUATI, MOHAMED S. GHIDAOU
- 8a-2d 08-36-1416 THEORETICAL ANALYSIS OF THE INFLUENCE OF BLOCKAGE IRREGULARITY ON TRANSIENT WAVES IN WATER SUPPLY PIPELINES
TONG-CHUAN CHE, HUAN-FENG DUAN, PEDRO.J LEE, MOHAMED S. GHIDAOU
- 8a-2e 08-36-1371 SCATTERING BEHAVIOR OF HIGH FREQUENCY ACOUSTIC WAVES DUE TO BLOCKAGE IN PRESSURIZED WATER-FILLED PIPE
MOEZ LOUATI, MOHAMED S. GHIDAOU
- 8a-2f 08-36-1609 UNIFIED EQUATION FOR ESTIMATION OF FRICTION FACTOR
BALKRISHNA SHANKAR CHAVAN

TECHNICAL SESSION 5A

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Tuesday, 15th August 2017

2.30 PM - 4 PM

ROOM: TDI-A

CHAIR: Prof. Farhad Yazdandoost

- 1b-5a 01-02-0650 FLOW OVER A WATER-WORKED BED
NADIA PENNA, ELLORA PADHI, SUBHASISH DEY, ROBERTO GAUDIO
- 1b-5b 01-02-0653 NUMERICAL SIMULATION OF A DEEP-SCOUR HOLE IN A TIDAL RIVER CONFLUENCE USING DELFT 3D
WENHONG DAI, AHMED BILAL, QIANCHENG XIE, YANYAN ZHAI
- 1b-5c 01-02-0685 THE EFFECT OF PATCH SIZE ON GRAIN-SCALE ROUGHNESS PARAMETERIZATION IN FLUVIAL ENVIRONMENTS
JANE GROOM, STEPHANE BERTIN, HEIDE FRIEDRICH
- 1b-5d 01-02-0858 EFFECT OF RACK ANGLE OF TYROLEAN TYPE INTAKES ON SEDIMENT CAPTURE EFFICIENCY OF THE SYSTEM
MUSTAFA GOGUS, ABIDDIN BERHAN MELEK, KUTAY YILMAZ
- 1b-5e 01-02-0775 MODELING THE SEDIMENT DYNAMICS OF SUPPLIED SAND AND GRAVEL IN ARMORED RIVER DOWNSTREAM OF A DAM
NORIO TANAKA, KOSUKE MATSUO
- 1b-5f 01-02-0693 LARGE EDDY SIMULATIONS OF THREE DIMENSIONAL SEDIMENT DUNE EVOLUTIONS
HONGWEI FANG, YAN LIU, THORSTEN STOESSER, CHENWEI ZHAO

TECHNICAL SESSION 5B

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Tuesday, 15th August 2017

2.30 PM - 4 PM

ROOM: TDI-B

CHAIR: Datin Prof. Ir. Dr. Lariyah Mohd Sidek

- | | | |
|-------|------------|--|
| 1d-5a | 01-04-0480 | COMPARISON OF SCOURING IN SHORT AND LONG CONTRACTIONS
<i>SEPEHR KARIMI, AMIR REZA ZARRATI, SADEGH ANVARI</i> |
| 1d-5b | 01-04-0082 | APPLICATION OF RNG K-E TURBULENCE MODEL TO SUPERCRITICAL BEND FLOW
<i>BO WANG, YUNLIANG CHEN, CHAO WU, XIAO MA, JIAJUN SONG, ZHONG TIAN</i> |
| 1d-5c | 01-04-0481 | UNDERSTANDING THE FORMATION OF WOODY DEBRIS JAMS AT BRIDGE PIERS
<i>DIEGO PANICI, GUSTAVO A. M. DE ALMEIDA</i> |
| 1d-5d | 01-04-0237 | WATER SURFACE PROFILES AND ENERGY HEAD IN NON AERATED SKIMMING FLOWS ON STEPPED SPILLWAYS
<i>MASAYUKI TAKAHASHI, YUKI YAMAMOTO, IWAO OHTSU</i> |
| 1d-5e | 01-04-0342 | STEREO-PARTICLE IMAGE VELOCIMETRY (S-PIV) STUDY OF FLOW AROUND A COMPLEX BRIDGE PIER (CBP)
<i>PRIYANKA GAUTAM, THEKKILAKKATTU IYPE ELDHO, BIJOY SINGHA MAZUMDER, MANASA RANJAN BEHERA</i> |
| 1d-5f | 01-04-0816 | FLOW PROPERTIES AND SHEAR STRESS ON A FLAT-SLOPED SPILLWAY
<i>ARMAGHAN SEVERI, STEFAN FELDER</i> |

TECHNICAL SESSION 5C

THEME 3: ENVIRONMENTAL HYDRAULICS AND INDUSTRIAL FLOWS

Tuesday, 15th August 2017

2.30 PM - 4 PM

ROOM: DTHO

CHAIR: Prof. Qiuwen Chen

- 3a-5a 03-11-1013 DYNAMICS CHARACTERISTICS OF NITROGEN IN EXPERIMENTAL ENCLOSURES IN THE PANJIAKOU RESERVOIR, HEBEI PROVINCE, CHINA
SUILIANG HUANG, MIN WU, CHANGJUAN ZANG, SHENGLAN DU, WENWEN KONG, JOSEPH DOMAGALSKI, MAGDALENA GAJEWSKA, ADAM SZYMKIEWICZ, ROMUALD SZYMKIEWICZ
- 3a-5b 03-11-0408 CHARACTERIZATION OF THE FLOW IN A VERTICAL SLOT FISHWAY WITH MACRO-ROUGHNESSES USING UNSTEADY (URANS AND LES) SIMULATIONS
AURELIEN BALLU, GERARD PINEAU, DAMIEN CALLUAUD, LAURENT DAVID
- 3a-5c 03-11-0241 EFFECT OF BUOYANT JETS MERGING ON MEAN KINETIC ENERGY FLUX
PANAYOTIS C. YANNOPOULOS
- 3a-5d 03-11-0651 COMPARATIVE STUDY ON WATER WAVES GENERATED BY SUBMERGED LANDSLIDE
HAI-XIAO JING, WEN WANG, ZHEN-DONG YANG, GUO-DONG LI
- 3a-5e 03-11-0167 FLOW RESISTANCE OF SUBMERGED RIGID VEGETATION: FOCUS AND VALIDATION ON TWO LAYER APPROACH
VITTORIO PASQUINO, PAOLA GUALTIERI
- 3a-5f 03-11-0358 TRANSVERSE MIXING COEFFICIENT IN RANDOM CYLINDER ARRAYS – A CFD VALIDATION STUDY
MAHSHID GOLZAR, FRED SONNENWALD, IAN GUYMER, VIRGINIA STOVIN

TECHNICAL SESSION 5D

THEME 2: FLOOD MANAGEMENT

Tuesday, 15th August 2017

2.30 PM - 4 PM

ROOM: Johor/Kedah

CHAIR: Prof. Ngai Weng Chan

- 2a-1a 02-06-0348 ASSESSMENT OF SPECIAL FLOOD RISK USING DISTRIBUTED HYDROLOGICAL MODEL IN LAOS
SENGHPHRACHANH PHRAKONKHAM, SO KAZAMA, DAISUKE KOMORI
- 2a-1b 02-06-0745 ASSESSING FLOOD DYNAMICS IN RIVERS AND RIPARIAN WETLANDS: AN INTEGRATED HYDROLOGICAL APPROACH
MICHAEL BUTTS, BIRGITTE VON CHRISTIERSON, CRAIG MACKAY, TERRY VAN KALKEN, SÍLVIA LEIRIÃO
- 2a-1c 02-06-1413 FLOOD FREQUENCY ANALYSIS AND CURVES OF EQUAL PREDICTED PEAK DISCHARGE
THOTTUNGAL DRISSIA, VINAYAKAM JOTHIPRAKASH, ALAYIL BAHULEYAN ANITHA
- 2a-1d 02-06-0770 HYDRODYNAMIC NUMERICAL MODELLING OF DAM FAILURE AND IMPACTS ASSESSMENT OF SUSU DAM WITH MIKE
MOHD RASHID MOHD SHAH, LARIYAH MOHD SIDEK, MOHD RUZAIMEI YALIT, MOHANADOSS PONRAJ, HIDAYAH BASRI
- 2a-1e 02-06-1277 IMPLEMENTATION OF A METHODOLOGY TO REVIEW HIGH HAZARD DAMS
FERNANDO J. GONZÁLEZ VILLARREAL, JONATHAN BOLAÑOS CASTILLO, MIGUEL ANGEL BRIBIESCA RODRÍGUEZ, IRVING GARCÍA REYES
- 2a-1f 02-06-0521 MODELING THE IMPACT OF CLIMATE CHANGE ON THE RUNOFF KELANTAN RIVER BASIN
CHEE LOONG WONG, JUNENG LIEW, ZULKIFLI YUSOP

TECHNICAL SESSION 5E

THEME 4: COASTAL, ESTUARIES AND LAKES MANAGEMENT

Tuesday, 15th August 2017

2.30 PM - 4 PM

ROOM: Negeri Sembilan

CHAIR: Prof. Ahmad Khairi Abd Wahab

- 4e-2a 04-20-0393 SPANISH BREAKWATER DEVELOPMENT IN THE XXI CENTURY
RAMON M. GUTIERREZ, JOSE M. GRASSA
- 4e-2b 04-20-0381 EFFECT OF DENSITY DIFFERENCES ON THE FORCES ACTING
ON A VESSEL DURING LOCKING OPERATIONS
*HELENA I.S. NOGUEIRA, TOM O'MAHONEY, ARNE VAN DER
HOUT, WIM KORTLEVER*
- 4e-2c 04-20-0488 EXPERIMENTAL INVESTIGATION OF TSUNAMI BORE IMPACT
FORCE AND PRESSURE ON A BRIDGE STRUCTURE WITH WING
WALL ABUTMENTS
*FARZAD FARVIZI, BRUCE W. MELVILLE, ASAAD Y. SHAMSELDIN,
STUART E. NORRIS*
- 4e-2d 04-20-0575 OVERTOPPING EVENTS IN BREAKWATERS: COMPARISON OF 2D
PHYSICAL EXPERIMENTS AND EMPIRICAL FORMULAE
*ANA MENDONÇA, RUTE LEMOS, MARIA TERESA REIS, JUANA
FORTES, MARIA GRAÇA NEVES, ANDRÉ RAMOS, RUI CAPITÃO*
- 4e-2e 04-20-0660 IMPACT OF A DRY BED SURGE AGAINST STRUCTURES WITH
AND WITHOUT OPENINGS
DAVIDE WÜTHRICH
- 4e-2f 04-20-0520 SCATTERING OF OBLIQUE WAVES BY A FLOATING ELASTIC
PLATE OVER A POROUS BED
HAREKRUSHNA BEHERA, CHIU-ON NG, TRILOCHAN SAHOO

TECHNICAL SESSION 5F

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Tuesday, 15th August 2017

2.30 PM - 4 PM

ROOM: Pahang

CHAIR: Ir. Hj. Ahmad Darus

- 1a-3a 01-01-0378 DRIVING FORCE ANALYSIS OF FISH COMMUNITIES AND HABITATS EVOLUTION IN THE LOWER YELLOW RIVER
MIAO WU, ANG CHEN, PENGYUAN WANG, CHEN SHEN
- 1a-3b 01-01-0366 RUNOFF SIMULATIONS OF MIXED LAND USE OF SKUDAI WATERSHED: SENSITIVE PARAMETERS
KHAIRUL ANUAR MOHAMAD, NOORBAHARIM HASHIM, ILYA KHAIRANIS OTHMAN
- 1a-3c 01-01-1444 APPLICATION OF HYDRAULIC ELEVATOR DAM IN WATER ECOLOGICAL CIVILIZATION CONSTRUCTION OF DUNHUA CITY
YANYU CHEN, YUEFEN ZHAO, HAITAO WU, JIE LIU, YEHAN GENG, HONGBO WANG
- 1a-3d 01-01-1418 WATER QUALITY ASSESSMENT IN KLANG RIVER BASIN, MALAYSIA
NORHAFEZAH KASMURI, NORADILA ABDUL HADI, MEGAWATI OMAR, AZRIL HAFIZ AB RAHIM
- 1a-3e 01-01-1097 BASIC STUDY ON APPLICABILITY OF SURFACE WAVE METHOD IN UNDERWATER RIVER CHANNELS
TAISHI MORITA, SHUNZO KAWAJIRI, YASUHARU WATANABE, YUKI TANAKA
- 1a-3f 01-01-0442 IMPROVED DISCHARGE PREDICTION OF STRAIGHT COMPOUND CHANNELS BASED ON ENERGY TRANSITION
XIAONAN TANG

TECHNICAL SESSION 5G

THEME 5: URBAN WATER MANAGEMENT

Tuesday, 15th August 2017

2.30 PM - 4 PM

ROOM: Perak

CHAIR: Prof. Sobri Harun

- 5a-2a 05-21-1002 APPLICATION OF SWMM AND MIKE 11 COUPLING MODEL IN URBAN TIDAL RIVER NETWORK
YUAN YUAN, MIN WANG, YI HU
- 5a-2b 05-21-0477 A DECISION SUPPORT TOOL FOR CONSTRUCTING RAINFALL INTENSITY-DURATION-FREQUENCY RELATIONS FOR URBAN HYDRAULIC STRUCTURE DESIGN IN A CHANGING CLIMATE
VAN-THANH-VAN NGUYEN, MYEONG-HO YEO, TRUONG-HUY NGUYEN
- 5a-2c 05-21-1052 CORRELATING HYDROLOGICAL AND METEOROLOGICAL PARAMETERS IN HYDROLOGICAL PROCESSES USING SOFT TOOL
SHRIKANT CHARHATE, VIDYANAND SAYAGAVI, RAJENDRA MAGAR
- 5a-2d 05-21-0810 RUNOFF ANALYSIS MODEL WITH A DEEP LEARNING
TOMOKI IZUMI, NORIYUKI KOBAYASHI
- 5a-2e 05-21-1104 IMPACT OF LANDUSE CHANGE ON URBAN RUNOFF: A CASE STUDY OF JAIPUR CITY, INDIA
DEEPAK KHARE, LAKHWINDER SINGH, MAHESH KUMAR JAT
- 5a-2f 05-21-0256 MECHANISM MODEL OF URBAN WATER CONSUMPTION
JIAHONG LIU, JINJUN ZHOU, WEIWEI SHAO, HAO WANG, ZHENTAO CONG

TECHNICAL SESSION 5H

THEME 5: URBAN WATER MANAGEMENT

Tuesday, 15th August 2017

2.30 PM - 4 PM

ROOM: Perlis

CHAIR: Richard Kellagher

- 5d-2a 05-24-0487 EXPERIMENTAL INVESTIGATION OF THE EFFECT OF TEMPERATURE DIFFERENTIALS ON HYDRAULIC PERFORMANCE OF A SEDIMENT RETENTION POND
EHSAN HENDI, ASAAD SHAMSELDIN, BRUCE MELVILLE, STUART NORRIS
- 5d-2b 05-24-1202 NUMERICAL SIMULATION OF INUNDATION DUE TO PROBABLE MAXIMUM PRECIPITATION IN HIROSHIMA CITY
NAOKI HAYAMI, YOSHIHISA KAWAHARA
- 5d-2c 05-24-0809 THE APPLICABILITY OF AGRICULTURE-BASED EQUATIONS FOR THE ESTIMATION OF EVAPOTRANSPIRATION FROM RAINGARDENS
TINGTING HAO, ASAAD SHAMSELDIN, KEITH ADAMS, BRUCE MELVILLE
- 5d-2d 05-24-1392 SUSTAINABLE URBAN STORMWATER MANAGEMENT TOWARDS ACHIEVING THE NEW URBAN AGENDA FOR SUSTAINABLE DEVELOPMENT
MOHD LOTFY MOHD NOH, MOHD RADZMAN OTHMAN, NORLIZA HASHIM, HASLINA ABU HASHIM, NOR AZAZI ZAKARIA, CHUN KIAT CHANG
- 5d-2e 05-24-0902 COMPARISON OF TWO APPROACHES FOR THE MODELLING OF GREEN STORMWATER INFRASTRUCTURES
JULIEN LHOMME, JONATHAN KLARIC, DAVID FORTUNE
- 5d-2f 05-24-0701 EMULATOR-AIDED OPTIMIZATION OF DETENTION TANKS FOR FLOOD REDUCTION
WEI LU, XIAOSHENG QIN, JIANJUN YU

SPECIAL SESSION 4A

TOPIC: THE PATH TO RESILIENCY IN LOW GRADIENT COASTAL REGIONS FOR PRESENT AND FUTURE CONDITIONS

Tuesday, 15th August 2017

2.30 PM - 4 PM

ROOM: Pulau Pinang

CHAIR: Prof. Scott C. Hagen

- 8d-1a 08-39-1611 (INVITED) INTEGRATED ASSESSMENT OF COASTAL AREAS
ROBERT JAMES NICHOLLS
- 8d-1b 08-39-1516 PATHWAYS TO RESILIENCY THROUGH ECONOMIC ASSESSMENTS OF DYNAMIC SEA LEVEL RISE IMPACTS
SCOTT C. HAGEN, RENEE COLLINI, DENISE E. DELORME, STEPHEN C. MEDEIROS, JAMES T. MORRIS, DAVID YOSKOWITZ
- 8d-1c 08-39-1524 ESTABLISHING AND PROMOTING AN INTERDISCIPLINARY CENTER FOR COASTAL RESILIENCY IN LOUISIANA, U.S.A.
DENISE E. DELORME, SCOTT C. HAGEN
- 8d-1d 08-39-1587 MANGROVES FOR COASTAL RESILIENCE: OPTIMAL GREEN BELT WIDTH AND RESTORATION METHODS
BREGJE K. VAN WESENBEECK, ALEJANDRA GIJÓN MANCHEÑO, CELINE VAN BIJSTERVELDT, SILKE A. J. TAS, MERIJN JANSSEN, J. C. WINTERWERP
- 8d-1e 08-39-1550 THE RESILIENCE OF COASTAL DELTAIC FLOODPLAINS IN CARBON AND NITROGEN MITIGATION AT CONTINENTAL MARGINS
ROBERT R. TWILLEY, AZURE BEVINGTON, ALEXANDRA CHRISTENSEN, ANNABETH MCCALL, ANIKA AARONS, EDWARD CASTAÑEDA-MOYA

TECHNICAL SESSION 6A

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Tuesday, 15th August 2017

4.30 PM - 6 PM

ROOM: TDI-A

CHAIR: Prof. Marko Shaohua Hsu

- 1b-6a 01-02-0125 DAM BREAK FLOW OVER MOBILE BED: VELOCITY DISTRIBUTION
ILARIA FENT
- 1b-6b 01-02-0689 ADVANCES AND PRACTICE OF THE LOWER YELLOW RIVER CHANNEL AND FLOODPLAIN TREATMENT RESEARCH
CUIHUA AN, SHENGYUN LIU, QIUSHI LUO, MOXI WU
- 1b-6c 01-02-0285 NUMERICAL SIMULATION OF SEDIMENT ENTRAINMENT BY LOCK-EXCHANGE GRAVITY CURRENTS
FOTEINI KYROUSI, ALESSANDRO LEONARDI, CARMELO JUEZ, JESSICA ZORDAN, FRANCESCA ZANELLO, FEDERICO ROMAN, VINCENZO ARMENIO, MÁRIO J. FRANCA
- 1b-6d 01-02-0154 EXPERIMENTAL STUDY ON MIGRATION PATTERN OF FLUIDS IN POROUS MEDIA UNDER VIBRATION EFFECT
KOK FOONG LOKE, NORHAN ABD RAHMAN, RAMLI NAZIR, RADZUAN SA'ARI
- 1b-6e 01-02-0043 TURBULENT CHARACTERISTICS OF FLOW OVER NON UNIFORM SAND BED CHANNEL
ANURAG SHARMA, BIMLESH KUMAR
- 1b-6f 01-02-0639 INFLUENCE OF THE INITIAL VOLUME OF LOCK EXCHANGE GRAVITY CURRENTS ON THE SEDIMENT ENTRAINMENT CAPACITY
JESSICA ZORDAN

TECHNICAL SESSION 6B

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Tuesday, 15th August 2017

4.30 PM - 6 PM

ROOM: TDI-B

CHAIR: Ir. Dr. Fang Yenn Teo

- 1d-6a 01-04-0220 EXPERIMENTAL INVESTIGATION OF FREE SURFACE DYNAMICS AND PRESSURE FLUCTUATIONS IN A CLOSED-CONDUIT HYDRAULIC JUMP
YEE-MENG CHIEW, ADEL EMADZADEH
- 1d-6b 01-04-0093 CRITICAL SUBMERGENCE FOR WATER INTAKES
MUHAMMED HASHID, ZULFEQUAR AHMAD
- 1d-6c 01-04-0616 NUMERICAL SIMULATION OF DIKE DEFORMATION DUE TO SEEPAGE FLOWS
SHINICHIRO ONDA, YOSUKE HIGO, TAKASHI HOSODA
- 1d-6d 01-04-0259 EFFECT OF BRIDGE PIER DIAMETER ON COLLAR EFFICIENCY
MOJTABA KARIMAEI TABARESTANI, AMIR REZA ZARRATI, SEYED AMIN SALAMATIAN
- 1d-6e 01-04-0600 THE STUDY ON HYDRAULICS CHARACTERISTICS OF TETRAHEDRON-LIKE PENETRATING FRAME DAM
HONGWEI KUANG, JINGTAO ZHENG, BO JIANG, FANG YENN TEO
- 1d-6f 01-04-0301 HYDRAULIC STUDY FOR BELIBIS RIVER PUMP SUMP THROUGH PHYSICAL MODELLING
MOHD KAMARUL HUDA SAMION, MOHD FAUZI MOHAMAD, KHAIROL AZUAN ADAM

TECHNICAL SESSION 6C

THEME 3: ENVIRONMENTAL HYDRAULICS AND INDUSTRIAL FLOWS

Tuesday, 15th August 2017

4.30 PM - 6 PM

ROOM: DTHO

CHAIR: Prof. Anton Schleiss

- 3a-6a 03-11-0540 THE DIFFERENCE IN RIPARIAN VEGETATION PATTERN BASED ON THE CHANNEL CHARACTERISTICS AND THE MECHANISM OF ITS FORMATION
TAKASHI ASAEDA, KELUM SANJAYA
- 3a-6b 03-11-0230 TURBULENT KINETIC ENERGY BUDGET IN OPEN CHANNEL FLOWS WITH FRACTAL BED ROUGHNESS
RICHARD MCSHERRY, THORSTEN STOESSER, ROGER A. FALCONER
- 3a-6c 03-11-0449 INFLUENCE OF WATER DIVERSION ON THE MICRO-ECOSYSTEM OF SHALLOW EUTROPHIC LAKE TAIHU, CHINA
JIANGYU DAI, SHIQIANG WU, XIUFENG WU, DAN CHEN, WANYUN XUE, QIANQIAN YANG, FANGFANG WANG
- 3a-6d 03-11-1383 DETERMINING CRITICAL VEGETATION CONDITIONS IN THE MACQUAIRE MARSHES USING AN ECO-HYDRAULIC APPROACH
STEVEN G. SANDI, JOSE F. RODRIGUEZ, PATRICIA SACO, LI WEN, NEIL SAINTILAN
- 3a-6e 03-11-0544 SOME OBSERVATIONS ON THE MIXING OF TWO RIVERS WITH A DIFFERENCE IN DENSITY: THE CASE OF THE NEGRO/SOLIMÕES CONFLUENCE, BRAZIL
CARLO GUALTIERI, MARCO IANNIRUBERTO, JIM BEST
- 3a-6f 03-11-0428 FLOW IN THE COMPOUND OPEN CHANNEL WITH GROUP OF COLUMN AND CHARACTERISTICS OF FISH BEHAVIOR
MUNEYUKI AOKI
- 3a-6g 03-14-0006 A ONE-DIMENSIONAL TEMPERATURE MODEL FOR RIVERS UNDER CHANGING METEOROLOGICAL CONDITIONS
YAFEI DUAN, ZHAN SHAN KANG, RUI HAN

TECHNICAL SESSION 6D

THEME 2: FLOOD MANAGEMENT

Tuesday, 15th August 2017

ROOM: Johor/Kedah

4.30 PM - 6 PM

CHAIR: Dr. Kenji Kawaike

- 2a-2a 02-06-0422 DAM FLOOD RISK ASSESSMENT BASED ON SET PAIR ANALYSIS-VARIABLE FUZZY SETS (SPA-VFS) MODEL
YU CHEN, PENG ZHI LIN
- 2a-2b 02-09-0777 EFFECT OF DOWNSTREAM REVET TO THE EMBANKMENT ON TIME OF FAILURE DUE TO OVERTOPPING
NURUDEEN TOMIWA AMO, JUNJI YAGISAWA, NORIO TANAKA
- 2a-2c 02-06-0017 OUTBURST FLOODS TRIGGERED BY IMPULSE WAVES: INSIGHTS FROM HYDRAULIC EXPERIMENTATION
FREDERIC M. EVERS, PIERRE-JACQUES FRANK, WILLI H. HAGER
- 2a-2d 02-06-0232 A PHYSICALLY-BASED GLOBAL FLOOD HAZARD MAP
YASIR KAHEIL, LORENZO BEGNUDELLI, JEFF MCCOLLUM, ZHAO LIU
- 2a-2e 02-06-1145 ROBUSTNESS OF RISK-BASED OPTIMIZATION METHODOLOGY FOR FLOOD PROTECTION DECISIONS
BALQIS MOHAMED REHAN
- 2a-2f 02-06-0822 IMPROVING HYDROLOGICAL PREDICTION WITH GLOBAL DATASETS: EXPERIENCES WITH BRAHMAPUTRA, UPPER AWASH AND KAAP CATCHMENTS
BISWA BHATTACHARYA, MD. TOHIDUL ISLAM, MD. SOHEL MASUD, SURAFEL MAMO, MJAWA SHENDULI, PRABIN ROKAYA, SCHALK JAN VAN ANDEL, ILYAS MASIH

TECHNICAL SESSION 6E

THEME 7: HYDROINFORMATICS / COMPUTATIONAL METHODS AND EXPERIMENTAL METHODS

Tuesday, 15th August 2017

4.30 PM - 6 PM

ROOM: Kelantan

CHAIR: Prof. Willi H. Hager

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| 7b-2a | 07-32-0947 | A GIS-BASED DRASTIC MODEL FOR ASSESSING GROUNDWATER VULNERABLE ZONES IN NAGPUR CITY, INDIA
<i>SAHAJPREET KAUR GAREWAL, AVINASH D. VASUDEO</i> |
| 7b-2b | 07-32-1073 | DILUTION STRATEGY FOR DESALINATION EFFLUENT
<i>VINCENT H. CHU, WIHEL ALTAI</i> |
| 7b-2c | 07-32-1250 | MODELING THE TRANSPORT AND FATE OF PHOSPHORUS FROM A POINT SOURCE IN THE LAKE MICHIGAN NEARSHORE ZONE
<i>HECTOR R BRAVO, HARVEY BOOTSMA, BAHRAM KHAZAEI</i> |
| 7b-2d | 07-32-0901 | DYNAMICS OF SEDIMENT CLOUD AND CLUMP REGIMES
<i>JENN WEI ER</i> |
| 7b-2e | 07-32-1543 | THE ANALOGIES BETWEEN PARTIAL DIFFERENTIAL EQUATIONS (PDE), CELLULAR AUTOMATA (CA) AND UNSTRUCTURED CELLULAR AUTOMATA (UCA)
<i>YU-QING LIN, QIU-WEN CHEN, ARTHUR MYNETT, CHENG CHEN, LEI TANG, GANG LI</i> |
| 7b-2f | 07-32-1393 | THREE DIMENSIONAL NUMERICAL MODELING OF LATERALLY CONFINED VERTICAL BUOYANT JETS USING THE GGDH K-E TURBULENCE MODEL
<i>XIAOHUI YAN, ABDOLMAJID MOHAMMADIAN</i> |

TECHNICAL SESSION 6F

THEME 2: FLOOD MANAGEMENT

Tuesday, 15th August 2017

ROOM: Melaka

4.30 PM - 6 PM

CHAIR: Prof. Weiming Wu

- 2b-2a 02-07-0074 EXPLORE THE HYDRODYNAMIC FORCE ON THE SURFACE OF FLOATING STRUCTURE IN FINITE FLOWING WATER
ZHEN CUI, ZONG FU FU, YUE JUN CHEN, SHAN WANG, GUANG GANG MA, WEN JIANG
- 2b-2b 02-07-1333 INFLUENCE OF URBAN PATTERNS ON FLOODING
MARTIN BRUWIER, AHMED MUSTAFA, DANIEL G. ALIAGA, SÉBASTIAN ERPICUM, PIERRE ARCHAMBEAU, GEN NISHIDA, XIAO WEI ZHANG, MICHEL PIROTON, JACQUES TELLER, BENJAMIN DEWALS
- 2b-2c 02-07-1364 APPROPRIATE INTERVENTIONS TO METRO CEBU'S FLOODING PROBLEMS
DANILO T. JAQUE, ANDRE-PAUL AMPONG, JOAN ARCE JAQUE, PRIMITIVO CAL
- 2b-2d 02-07-1588 SUDS IN THE UK AND SPONGE CITIES IN CHINA – WHAT PROGRESS IS BEING ACHIEVED IN URBAN FLOOD RISK MANAGEMENT?
RICHARD KELLAGHER, BRIDGET WOODS BALLARD, JUAN GUTIERREZ ANDRES, VIVIAN DOU
- 2b-2e 02-07-0593 RESEARCH ON THE IMPACT OF BOUSSINESQ COEFFICIENT FOR NUMERICAL SCHEMES TO MODEL DAM-BREAK FLOODS
FAN YANG, DONGFANG LIANG
- 2b-2f 02-07-0957 COMMUNITY PERCEPTION OF SUSTAINABLE URBAN DRAINAGE SYSTEM: A CASE STUDY OF NHIEU LOC – THI NGHE BASIN, HO CHI MINH CITY, VIETNAM
LAN HOANG MY NGUYEN, PHU LE VO, TRUNG VAN LE

TECHNICAL SESSION 6G

THEME 2: FLOOD MANAGEMENT

Tuesday, 15th August 2017

4.30 PM - 6 PM

ROOM: Negeri Sembilan

CHAIR: Prof. Arthur Mynett

- 2d-2a 02-09-0151 ESTIMATION OF SPATIAL FLOOD DAMAGE COSTS IN JAKARTA, INDONESIA
NURUL F. JANURIYADI, SOTEPHEN G. KAZAMA, IDHAM R. MOE, SHUICHI KURE
- 2d-2b 02-09-0549 NUMERICAL SIMULATION FOR VARIATION OF FLOODWATER STAGE DUE TO BUILDINGS ON FLOOD PLAIN
FONG-ZUO LEE, JIHN-SUNG LAI, TSUNG-HSIEN HUANG, CHENG-CHIA HUANG, ZHI-XIAN YANG, YONG-JUN LIN
- 2d-2c 02-09-1262 FIELD SURVEY ON THE COMPOUND DISASTER DUE TO THE KUMAMOTO EARTHQUAKE AND THE FLOOD OF JUNE 2016
TAKUYA SAKURABA, YASUO NIHEI, YUKI KURAKAMI
- 2d-2d 02-09-1471 VARIATIONS IN MAGNITUDE AND FREQUENCY OF EXTREME FLOODS AND MAXIMUM PRECIPITATION EVENTS IN 24 HOURS IN THE OCCIDENTAL EDGE OF THE ANDES BETWEEN PARALLELS 30° 50' AND 39° 40' OF SOUTH LATITUDE
JOSE VARGAS BAECHELER, FELIPE VÁSQUEZ CORDERO
- 2d-2e 02-09-0608 DEVELOPMENT OF AN EMERGENCY FOOD AID PLAN: AN IMMEDIATE ACTION FOR FLOOD DISASTER MANAGEMENT
BALACHANTHAR SATESH, NOR AZAZI ZAKARIA, LAI KUAN LEE
- 2d-2f 02-09-1066 NUMERICAL PREDICTION OF LOCALIZED HEAVY RAIN BY WRF-ARW MODEL WITH X-BAND RADAR DATA ASSIMILATION
MASATO KITA, YOSHIHISA KAWAHARA, CHO THANDA NYUNT
- 2d-2g 02-10-0033 SOCIAL CAPITAL AND COMMUNITY RESILIENCE IN COPING WITH FLOOD DISASTERS IN MALAYSIA
NGAI WENG CHAN

TECHNICAL SESSION 6H

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Tuesday, 15th August 2017

4.30 PM - 6 PM

ROOM: Pahang

CHAIR: Assoc. Prof. Adrian Wing-Keung Law

- 1a-4a 01-01-1249 CHARACTERIZATION OF SURFACE AND HYPORHEIC FLOWS ASSOCIATED WITH A GRAVEL BAR
MOHAMMAD SAEID AHADI, SEYED HESSAM SEYED MIRZAEI, ANA MARIA FERREIRA DA SILVA
- 1a-4b 01-01-0704 A COUPLED MODEL OF WATER-SEDIMENT-CONTAMINANT CONTROLLED BY SLUICES
PENGJIE HU, LINGLING WANG, HONGWU TANG
- 1a-4c 01-01-0212 INFLUENCE OF LATERAL RECTANGULAR EMBAYMENTS ON THE TRANSPORT OF SUSPENDED SEDIMENTS IN A FLUME
CARMELO JUEZ, IRIA BUEHLMANN, GAETAN MAECHLER, ANTON J. SCHLEISS, MÁRIO J. FRANCA
- 1a-4d 01-01-1464 IMPACT OF INNER-BANK VEGETATION ON THE MEAN FLOW AND TURBULENCE STATISTICS IN A CURVED CHANNEL
SEONMIN LEE, SUNG-UK CHOI
- 1a-4e 01-01-0445 DOES INVASIVE RIPARIAN TAMARISK AFFECT WATER AVAILABILITY IN THE LOWER COLORADO RIVER BASIN?
KUMUD ACHARYA, SACHIKO SUEKI, JOHN HEALEY, YIPING LI
- 1a-4f 01-01-1273 COMPARATIVE ANALYSIS OF WATER QUALITY INDICES
SRI PUJI SARASWATI, - SUNJOTO, B. AGUS KIRONOTO, SUWARNO HADISUSANTO

TECHNICAL SESSION 6I

THEME 7: HYDROINFORMATICS / COMPUTATIONAL METHODS AND EXPERIMENTAL METHODS

Tuesday, 15th August 2017

4.30 PM - 6 PM

ROOM: Perak

CHAIR: Dato' Prof. Othman A. Karim

- 7c-2a 07-33-0222 CFD ANALYSIS AND VALIDATION OF A CHLORINE DISINFECTION TANK
PABLO OURO, BRUNO FRAGA, NICOLÒ VITI, ATHANASIOS ANGELOUDIS, CARLO GUALTIERI, THORSTEN STOESSER
- 7c-2b 07-33-0056 EXPERIMENTAL ANALYSIS ON FISH SWIMMING ABILITIES AND NUMERICAL SIMULATION OF FISH SWIMMING TRAJECTORIES
RUI HAN, LI ZENG, RUONAN LI, DUAN CHEN
- 7c-2c 07-33-0141 CONSTRAINT SATISFACTION PROBLEM VS QUADRATIC OPTIMIZATION METHOD TO DEAL WITH THE EFFECTS OF CLIMATE CHANGE ON INLAND WATERWAYS
ERIC DUVIELLA, ARNAUD DONIEC, HOUDA NOUASSE, FRANCK TEMPET
- 7c-2d 07-33-0203 DEVELOPMENT OF THE STREAMFLOW AND FLOOD ANALYSIS SYSTEM USING R (SFASUR-TEC)
MAIKEL MENDEZ, LUIS A. CALVO-VALVERDE
- 7c-2e 07-33-0548 DETERMINING TIDAL MIXING ZONE USING NUMERICAL AND DATA-DRIVEN MODEL IN MALACCA STRAIT
ALAMSYAH KURNIAWAN, SERENE H.X TAY, SENG KEAT OOI, VLADAN BABOVIC
- 7c-2f 07-33-0483 DEVELOPMENT OF KU-STIV: SOFTWARE TO MEASURE SURFACE VELOCITY DISTRIBUTION AND DISCHARGE FROM RIVER SURFACE IMAGES
ICHIRO FUJITA, TAKASHI DEGUCHI, KIYONORI DOI, DAISUKE OGINO, YUICHI NOTOYA, SAAYA TATEGUCHI

TECHNICAL SESSION 6J

THEME 6: WATER RESOURCES MANAGEMENT

Tuesday, 15th August 2017

ROOM: Perlis

4.30 PM - 6 PM

CHAIR: Ismail Tawnie

- 6e-2a 06-30-0880 GROUNDWATER HYDROGEOCHEMISTRY OF THE SHALLOW AQUIFER IN LOWER KELANTAN BASIN
ANUAR SEFIE, AHMAD ZAHARIN ARIS, TAHOORA SHEIKHY NARANY, MOHD KHAIRUL NIZAR SHAMSUDDIN, ISMAIL TAWNIE, AZRUL NORMI IDRIS, SYAIFUL BAHREN SAADUDIN, ARSHAD OSMAN
- 6e-2b 06-30-0563 NEW EQUATIONS OF PARTIAL PENETRATION WELL
SUNY SUNJOTO
- 6e-2c 06-29-1408 UPDATED PARTICLE SWARM OPTIMIZATION (PSO) ALGORITHM IN CALIBRATING RESERVOIR RELEASE POLICY
MD. SHABBIR HOSSAIN, LARIYAH MOHD SIDEK
- 6e-2d 06-29-1071 WATER BALANCE STUDY FOR A WATERSHED IN GODAVARI RIVER BASIN USING SWAT MODEL
AMEY BAGUL, VIJAYA S. PRADHAN, PRACHI BAGUL
- 6e-2e 06-29-0916 PREPARATION OF POMEGRANATE PEELS DERIVED ACTIVATED CARBONS BY CHEMICAL AND PHYSIO-CHEMICAL ACTIVATION FOR THE SUCCESSIVE TREATMENT OF HAZARDOUS ACETAMINOPHEN
ZARROUG MANEL, KENG YUEN FOO, SOUAD NAJAR SOUISSI, OUEDERNI ABDELMOTTALEB

SPECIAL SESSION 4B

TOPIC: THE PATH TO RESILIENCY IN LOW GRADIENT COASTAL REGIONS FOR PRESENT AND FUTURE CONDITIONS

Tuesday, 15th August 2017

4.30 PM - 6 PM

ROOM: Pulau Pinang

CHAIR: Prof. Scott C. Hagen

- 8d-2a 08-39-1525 THE IOWA WATERSHED APPROACH
LARRY WEBER, ANTONIO ARENAS, ALLEN BRADLEY, CRAIG JUST, NATHAN YOUNG
- 8d-2b 08-39-1515 THE RESILIENCY OF COASTAL MARSH SYSTEMS UNDER SEA LEVEL RISE
KARIM ALIZAD, SCOTT C. HAGEN, MATTHEW V. BILSKIE
- 8d-2c 08-39-1523 CAN WE IMPROVE THE RESILIENCE OF LARGE RIVER DELTAS? A MISSISSIPPI RIVER CASE STUDY
SAMUEL J. BENTLEY, CLINTON S. WILLSON, SCOTT C. HAGEN, ROBERT R. TWILLEY
- 8d-2d 08-39-1495 MANAGEMENT AND MIXED COASTAL PROTECTION MEASURES IN HIGHLY VULNERABLE AND EDGE RISK AREAS. COSTA DA CAPARICA CASE STUDY
FERNANDO VELOSO-GOMES

TECHNICAL SESSION 7A

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Wednesday, 16th August 2017

9.30 AM - 11 AM

ROOM: TDI-A

CHAIR: Dr. Heide Friedrich

- 1b-7a 01-02-0580 STUDIES ON THE PATTERN OF BANK COLLAPSE-RETREAT OF ALLUVIAL RIVERS
YIN CHEN, YAN-GUI WANG
- 1b-7b 01-02-0062 EFFECT OF PILE ARRANGEMENT ON LOCAL SCOUR DEPTH
YASSER A. MOUSSA, MAHMOUD ATTA
- 1b-7c 01-02-0029 EQUILIBRIUM SCOUR MORPHOLOGIES DOWNSTREAM OF BLOCK RAMPS LOCATED IN BOTH STRAIGHT AND CURVED CHANNELS
STEFANO PAGLIARA, MICHELE PALERMO
- 1b-7d 01-02-0519 RIVER SAND MINING CAPACITY IN MALAYSIA
FANG YENN TEO, MD. NASIR MD. NOH, AMINUDDIN AB. GHANI, NOR AZAZI ZAKARIA, CHUN KIAT CHANG
- 1b-7e 01-02-0116 SEDIMENT INCEPTION BY STREAM FLOW: A NOVEL MATHEMATICAL MODEL
SUBHASISH DEY, SK ZEESHAN ALI
- 1b-7f 01-02-0291 EFFECT OF THE BED LOAD GRADATION ON THE MORPHODYNAMICS OF DISCORDANT CONFLUENCES
SEBASTIÁN GUILLÉN-LUDEÑA, MÁRIO J. FRANCA, ANTÓNIO H. CARDOSO, ANTON J. SCHLEISS

TECHNICAL SESSION 7B

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Wednesday, 16th August 2017

9.30 AM - 11 AM

ROOM: TDI-B

CHAIR: Prof. Wenhong Dai

- 1d-7a 01-04-0737 STUDY ON THE FLOW AND MORPHOLOGICAL CHANGES UTILIZES VEGETATED GROUYNE
PRATIWI AZIZ, AKIHIRO KADOTA
- 1d-7b 01-04-0528 EXPERIMENTAL AND NUMERICAL MODELLING OF AERATED FLOWS OVER STEPPED SPILLWAYS
JACOB VAN ALWON, DUNCAN BORMAN, ANDREW SLEIGH, NIK KAPUR
- 1d-7c 01-04-0841 A NEW APPROACH TO HYDRAULICS BASED ON THE MOMENTUM BALANCE: SHARP EDGED OUTFLOWS AND SLUICES
ANDREAS MALCHEREK
- 1d-7d 01-04-0960 LARGE-SCALE FLUME TESTS ON FLOW DISLODGMET OF ROCKS FORMING BENDWAY-WEIRS
ROBERT ETTEMA, JONATHAN AUBUCHON, NATHAN HOLSTE, DAVID VARYU, DREW BAIRD, ROBERT PADILLA, CHRISTOPHER THORNTON
- 1d-7e 01-04-0984 AN EXPERIMENTAL STUDY OF THE HYDRAULIC PERFORMANCE OF A BUOYANCY-AUTOMATED TIDAL GATE
JAMES SIMPSON, WILLIAM GLAMORE, STEFAN FELDER
- 1d-7f 01-04-0950 CFD STUDY OF A SPATIAL SUBMERGED HYDRAULIC JUMP
VIMALDOSS JESUDHAS, RAM BALACHANDAR, TIRUPATI BOLISETTI

TECHNICAL SESSION 7C

THEME 2: FLOOD MANAGEMENT

Wednesday, 16th August 2017

9.30 AM - 11 AM

ROOM: DTHO

CHAIR: Prof. Roger A. Falconer

- 2c-3a 02-08-1084 A REVIEW OF THE UNDERSTANDING OF UNCERTAINTY IN A FLOOD FORECASTING SYSTEM AND THE AVAILABLE METHODS OF DEALING WITH IT
LEONORE BOELEE, DARREN LUMBROSO, PAUL SAMUELS, ELISABETH STEPHENS, HANNAH CLOKE
- 2c-3b 02-08-0160 FLOATING DEBRIS RETENTION RACKS AT DAM SPILLWAYS
LUKAS SCHMOCKER
- 2c-3c 02-08-0447 ESTIMATION OF FLASH FLOOD GUIDANCE USING GEOMORPHIC UNIT WITH HYDROGRAPH METHOD
DAWEI ZHANG, JIN QUAN, ZHIHAN YE, GUANGYUAN KAN
- 2c-3d 02-08-0586 FLOOD FORECASTING AND WARNING FOR MUAR RIVER: NON-STRUCTURAL MEASURES FOR FLOOD MITIGATION
WAN HAZDY AZAD WAN ABDUL MAJID, EMMA BROWN, SAZALI OSMAN, GAPAR ASAN, AB QAHAR OSMAN, ROSHAM KADIMAN SAMSUDIN, LEONORE BOELEE, FAIZAH AHMAD
- 2c-3e 02-08-0668 DATA ASSIMILATION IN A HYDRODYNAMIC-HYDROLOGICAL MODELLING SYSTEM
PETER GODIKSEN, MARC-ETIENNE RIDLER, HENRIK MADSEN
- 2c-3f 02-08-0835 THE ABILITY OF MULTI-LINEAR REGRESSION MODELS TO FORECAST WATER LEVELS AT CALAMAR, COLOMBIA
TJEERD DRIESEN, BART-JAN VAN DER SPEK, MARIUS SOKOLEWICZ

TECHNICAL SESSION 7D

THEME 6: WATER RESOURCES MANAGEMENT

Wednesday, 16th August 2017

9.30 AM - 11 AM

ROOM: Johor / Kedah

CHAIR: Prof. Van-thanh-van Nguyen

- 6a-5a 06-26-1035 INVESTIGATING RESERVOIR REGULATIONS UNDER CLIMATE CHANGE SCENARIOS
CHO THANDA NYUNT, YOSHIHISA KAWAHARA
- 6a-5b 06-26-0553 ANALYSIS ON REGIONAL SOCIO-ECONOMIC WATER CONSUMPTION REGULATION BASED ON MATHEMATICAL PROGRAMMING
HONGYUAN FANG, CHENGLING LIU, CHEN CHEN
- 6a-5c 06-26-0611 INTEGRATED WATER RESOURCES MANAGEMENT IN THE KISO RIVER SYSTEM
YOSHINOBU SATO
- 6a-5d 06-26-1382 SPATIAL WATER QUALITY VULNERABILITY ASSESSMENT OF HAN RIVER BASIN USING MULTI-CRITERIA DECISION MAKING METHOD
PATRICIA JITTA ABDULAI, EUN-SUNG CHUNG, YEONJOO KIM
- 6a-5e 06-26-1435 CLIMATE-SMART DECISION SUPPORT SYSTEM FOR IRRIGATION AND WATER RESOURCES MANAGEMENT FOR RICE PRODUCTION
MD ROWSHON KAMAL, NKULULEKO SIMEON DLAMINI, MOHD AMIN MOHD SOOM
- 6a-5f 06-26-1381 MULTI-OBJECTIVE RISK ANALYSIS OF RESERVOIR FLOOD CONTROL OPERATION BASED ON COPULA-MONTE CARLO METHOD
YANG PENG, ZHIYI WU, KAI CHEN

TECHNICAL SESSION 7E

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Wednesday, 16th August 2017

9.30 AM - 11 AM

ROOM: Kelantan

CHAIR: Dr. Kumud Acharya

- 1c-2a 01-03-0556 DISCUSSION ON DESILTING MEASURES FOR RESERVOIR SEDIMENTATION
HONG BIN LIU, CAI PING WU, WEN JIAO ZHANG
- 1c-2b 01-03-0142 FIELD CALIBRATION OF BEDLOAD MONITORING SYSTEM IN A SEDIMENT BYPASS TUNNEL: SWISS PLATE GEOPHONE
MICHELLE MUELLER-HAGMANN, ISMAIL ALBAYRAK, ROBERT MICHAEL BOES
- 1c-2c 01-03-1134 SEDIMENT YIELD ESTIMATION ON A RESERVOIR IN SEVERELY ERODING RIVER BASIN
DEVARAJA PATHIRAGE CHANAKA LAKNATH, THOTAPITIYA ARACHCHILLAGE JEEWANATHI J.G. SIRISENA
- 1c-2d 01-03-1143 DETECTION OF DEBRIS FLOWS BY COMBINATION OF LVP AND WIRE SENSORS
TAKAHIRO ITOH, TAKAHISA MIZUYAMA, MICHINOBU NONAKA, SATOSHI TAGATA, SATORU MATSUDA
- 1c-2e 01-03-1411 DEBRIS AND MUDFLOW COMPUTER MODEL
NORLIDA MOHD DOM, SANDRA LIGONG, A. RAZAK BAHAROM
- 1c-2f 01-03-1511 NUMERICAL SIMULATION OF FLOW AND SEDIMENT TRANSPORT IN TANKS WITH THE INFLUENCE OF CAVITY
ABDELLAH GHENAIM, YI LIU, ABDELALI TERFOUS, PIERRE-ANDRE GARAMBOIS

TECHNICAL SESSION 7F

THEME 4: COASTAL, ESTUARIES AND LAKES MANAGEMENT

Wednesday, 16th August 2017

9.30 AM - 11 AM

ROOM: Melaka

CHAIR: Prof. Hubert Chanson

- 4c-3a 04-18-0263 MODELING OF COLLOIDAL SULFUR IN SALINITY-STRATIFIED URBAN STREAMS
SHIN MIURA, TETSUO HATTA, HITOSHI NEGISHI, YASUSHI TSURUTA, TADAHARU ISHIKAWA
- 4c-3b 04-18-0085 WATER EXCHANGE PHYSICAL MODEL TEST IN MONSOON AND OCEAN CURRENTS EFFECTS
MENWU WU, LI YAN, GUOZHEN LIU, XIAOLEI TONG, XIAOMING WU
- 4c-3c 04-18-1103 TIDAL BORE GENERATION AT THE EASTURIES OF THE EAST COAST OF SUMATRA
ALAMSYAH KURNIAWAN, ULUNG JANTAMA WISHA, SEMEIDI HUSRIN, ENTIN A. KARJADI
- 4c-3d 04-18-0195 THE RESPONSE OF SALTWATER INTRUSION TO THE RIVERBED DEGRADATION IN THE PEARL RIVER ESTUARY
HUAZHI ZOU, SHUNCHAO YU, LIANGLIANG ZHANG
- 4c-3e 04-18-0978 DIFFUSE BACTERIA LOADING FROM INTERTIDAL MARSHLAND AND IMPACTS TO ADJACENT ESTUARINE WATER QUALITY
AMYRHUL ABU BAKAR, REZA AHMADIAN, ROGER A. FALCONER
- 4c-3f 04-18-0108 VARIABILITY OF PHYTOPLANKTON IN ESTUARIES, A CASE STUDY IN THE NETHERLANDS
LIXIA NIU

TECHNICAL SESSION 7G

THEME 7: HYDROINFORMATICS / COMPUTATIONAL METHODS AND EXPERIMENTAL METHODS

Wednesday, 16th August 2017

9.30 AM - 11 AM

ROOM: Negeri Sembilan

CHAIR: Prof. Mohamed S. Ghidaoui

- 7d-3a 07-34-0619 RESEARCH ON DETECTION METHOD FOR LARGE-SCALE PARTICLE IMAGE VELOCIMETRY IN RIVER MODEL TEST
CHENG CHEN, YUNFENG XIA, ZIYANG LI, XIN WANG
- 7d-3b 07-34-1286 STUDY ON TSUNAMI ACTION FORM TO INFLUENCE THE SLIDE OF THE FUEL TANK BASED ON NUMERICAL COMPUTATION
YUKI OHKI, NAOKI YOSHIDA, TARO ARIKAWA
- 7d-3c 07-34-1562 EXPERIMENTAL INVESTIGATION ON CORRELATION BETWEEN THE BREAKDOWN VOLTAGE OF CAPACITANCE AND THE SIZE OF A SPARK-INDUCED CAVITATION BUBBLE
YILAN LI
- 7d-3d 07-34-1197 POST PROCESSING OF ULTRASONIC RANGING SYSTEM AND ACOUSTIC DOPPLER VELOCIMETER DATA FOR MORPHOLOGICAL STUDIES
PASUPULETI LAXMI NARAYANA, PRAFUL VASHARAMBHAI TIMBADIYA, PREM LAI PATEL
- 7d-3e 07-34-0908 EVALUATION OF SURFACE WATER QUALITY ASSESSMENT METHODS UNDER CLIMATE VARIABILITY
DONYA DEZFOOLI, KUMARS EBRAHIMI, SHAHAB ARAGHINEJAD
- 7d-3f 07-34-1012 OPTICAL MEASUREMENT SYSTEM FOR WAVE PROFILES USING MODIFIED SUZUKI-SUMINO METHOD
KAZUHIDE DAN, ATSUSHI KISHI

TECHNICAL SESSION 7H

THEME 6: WATER RESOURCES MANAGEMENT

Wednesday, 16th August 2017

9.30 AM - 11 AM

ROOM: Pahang

CHAIR: Dr. Michael Butts

- 6c-1a 06-28-1016 DYNAMICS OF ALGAL GROWTH IN EXPERIMENTAL ENCLOSURES IN THE PANJIAKOU RESERVOIR, HEBEI PROVINCE, CHINA
SUILIANG HUANG, MIN WU, CHANGJUAN ZANG, SHENGLAN DU, WENWEN KONG, YAO XIAO, JOSEPH DOMAGALSKI, MAGDALENA GAJEWSKA, ADAM SZYMKIEWICZ, ROMUALD SZYMKIEWICZ
- 6c-1b 06-28-0738 ECONOMIC VALUE OF WATER IN THE ACONCAGUA RIVER BASIN, A COMPARISON BETWEEN AGRICULTURE AND MINING SECTORS
ERIC FIGUEROA, NEIL MCINTYRE, JIM SMART
- 6c-1c 06-28-0262 SCENARIO ANALYSIS FOR INTEGRATED WATER RESOURCES PLANNING AND MANAGEMENT IN AN URBAN AREA
XING CHEN, XUEZHEN XIONG, QIN XU, LI WANG
- 6c-1d 06-28-0223 THE GENERATION POLICY OF HYDROPOWER OF THE BE RIVER BASIN TO MITIGATE THE WATER SHORTAGE
FREDERICK N.-F CHOU, NGUYEN THI THUY LINH
- 6c-1e 06-28-1441 EVALUATION OF ECOSYSTEM DEGRADATION RESPONSE TO WATER-SAVING MEASURES IN HETAO IRRIGATION AREA, CHINA
GUOHUA HE, YONG ZHAO, JIAQI ZHAI
- 6c-1f 06-28-0692 STUDY ON WATER QUANTITY REGULATION TECHNOLOGY BASED ON HIERARCHICAL WATER USE AND ECO-ENVIRONMENTAL FLOW
NA WEI, YANGWEN JIA, JINJUN YOU, CUNWEN NIU, JIANCANG XIE, WEN WANG

TECHNICAL SESSION 7I

THEME 3: ENVIRONMENTAL HYDRAULICS AND INDUSTRIAL FLOWS

Wednesday, 16th August 2017

9.30 AM - 11 AM

ROOM: Perak

CHAIR: Prof. Chris Katopodis

- 3c-1a 03-13-1211 BUOYANT ENERGY – MULTIFUNCTIONAL OFFSHORE ENERGY STORAGE AND GRID BALANCING SYSTEM FOR FUTURE REQUIREMENTS
BERND STEIDL, ROBERT KLAR, MARKUS AUFLEGER
- 3c-1b 03-13-1312 IMPACTS OF GLACIER RECESSION ON THE HYDROENERGY PRODUCTION, SANTA AND PATIVILCA BASINS (PERU)
MARISA SILVA DAVILA
- 3c-1c 03-13-0888 A NOVEL FREE JET TURBINE FOR USING KINETIC ENERGY IN THE FIELD OF NANO-HYDROPOWER
JENS METZGER, JÖRG WIELAND, JENS BENDER, JÜRGEN JENSEN, MD ABID HASAN
- 3c-1d 03-13-0269 RESONANCE WAVE PUMPING: MEAN WAVE MASS FLUX
REMI CARMIGNIANI, DAMIEN VIOLEAU, MORTEZA GHARIB
- 3c-1e 03-13-0194 AIR DEMAND OF HIGH-HEAD BOTTOM OUTLETS
BENJAMIN HOHERMUTH
- 3c-1f 03-13-0857 UNDERGROUND PUMPED HYDROELECTRIC ENERGY STORAGE IN WALLONIA (BELGIUM) USING OLD MINES – HYDRAULIC MODELLING OF THE RESERVOIRS
SEBASTIEN ERPICUM, PIERRE ARCHAMBEAU, BENJAMIN DEWALS, MICHEL PIROTON

SPECIAL SESSION 6A

TOPIC: COASTAL RESERVOIR -- A TECHNOLOGY THAT CAN DEVELOP FRESHWATER FROM THE SEA WITHOUT DESALINATION

Wednesday, 16th August 2017

9.30 AM - 11 AM

ROOM: Perlis

CHAIR: Prof. Shu-Qing Yang

- 8f-1a 08-41-1581 INNOVATIVE SEA BASED FRESH WATER RESERVOIR TO IMPOUND RIVER FLOOD WATERS: AN INITIATIVE FOR INDIA'S WATER SHORTAGE
T. G. SITHARAM, R. SUBBA RAO, KUSHAL SHETTY
- 8f-1b 08-41-1612 RESEARCH ON SEASONAL STRATIFICATION OF IRON AND MANGANESE IN RESERVOIR IN THE KARST WATER SHORTAGE AREA
YISI ZHUGE, QIAN ZHANG, HONGWU TAN, XIAO YU
- 8f-1c 08-41-1592 REVIEW OF THE HISTORICAL DEVELOPMENT OF COASTAL RESERVOIRS IN THE WORLD
SHU-QING YANG, MUTTUCUMARU SIVAKUMAR
- 8f-1d 08-41-1615 ALTERNATIVES ANALYSIS FOR REDUCING ENVIRONMENTAL RISKS IN BURULUS LAKE
HAYTHAM AWAD
- 8f-1e 08-41-1576 COASTAL RESERVOIR AS AN INNOVATIVE AND SUSTAINABLE SOLUTION TO RAW WATER RESOURCES DEVELOPMENT IN MALAYSIA
MICHAEL JIN CHOONG TEH, SIN POH LIM
- 8f-1f 08-41-1600 THE KEY DESIGN CONCEPTS AND TECHNOLOGIES OF QINGCAOSHA RESERVOIR IN YANGTZE ESTUARY
CAI E WU, JIAN ZHONG YUAN, QING FU WEI
- 8f-1g 08-41-1620 STUDY ON ABATEMENT OF SILTATION IN PORT AND CHANNEL BUILT ON SILT-SANDY BEACH
JINQUAN WU, SHIHONG ZHANG, LINYUN SUN, LIXIN JIA

SPECIAL SESSION 1C

TOPIC: TRANSIENTS IN PIPES

Wednesday, 16th August 2017

9.30 AM - 11 AM

ROOM: Pulau Pinang

CHAIR: Prof. Sanghyun Kim and Prof. Arris S. Tijsseling

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| 8a-3a | 08-36-1574 | DAMPING RATE OF TRANSIENT OSCILLATIONS IN PRESSURIZED CLOSED CONDUITS
<i>SAHAD KHILQA, MOHAMED ELKHOLY, MOHAMED H. AL-TOFAN, JUAN M. CAICEDO, M. HANIF CHAUDHRY</i> |
| 8a-3b | 08-36-1560 | INFLUENCE OF AIR CONTENT ON TRANSIENT FLOW BEHAVIORS IN VISCOELASTIC PIPES
<i>YAN ZHU, HUAN-FENG DUAN, FEI LI, CHEN-GUANG WU, YI-XING YUAN, ZHEN-FENG SHI</i> |
| 8a-3c | 08-36-1419 | TIME DOMAIN INVERSE TRANSIENT ANALYSIS FOR PIPELINE LEAK DETECTION IN A NOISY ENVIRONMENT
<i>ALIREZA KERAMAT, MOHAMED S. GHIDAQUI, XUN WANG</i> |
| 8a-3d | 08-36-1522 | MATCHED-FIELD PROCESSING METHOD FOR LEAK DETECTION IN A PIPE
<i>XUN WANG, MOHAMED S. GHIDAQUI</i> |
| 8a-3e | 08-36-0731 | INVERSE TRANSIENT ANALYSIS PARAMETER ESTIMATION ACCURACY FOR SYSTEMS SUBJECT TO HYDRAULIC NOISE AND SHORT DAMAGED SECTIONS
<i>CHI ZHANG, AARON ZECCHIN, JINZHE GONG, MARTIN LAMBERT, ANGUS SIMPSON</i> |
| 8a-3f | 08-36-0493 | THE EFFECT OF WAVE SPEED AND PUMP SPECIFIC SPEED ON TRANSIENT PRESSURES SIMULATIONS
<i>RUBEN NERELLA, VENKATA RATHNAM ERVA</i> |

TECHNICAL SESSION 8A

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Wednesday, 16th August 2017

11.30 AM - 1 PM

ROOM: TDI-A

CHAIR: Assoc. Prof. Nian Sheng Cheng

- 1b-8a 01-02-0214 MANAGEMENT PLAN FOR RIVER SAND MINING ACTIVITY IN SEGAMA RIVER, SABAH
KOK HOU KU, CLAUS PEDERSEN, HANS CHRISTIAN AMMENTORP, YABI YANGKAT, VITALIS MODUYING
- 1b-8b 01-02-0115 TURBULENT SHEAR FLOW OVER A SINUSOIDAL BED
SK ZEESHAN ALI, SUBHASISH DEY
- 1b-8c 01-02-0694 RESEARCH ON RELATIONSHIP BETWEEN FLOW AND SEDIMENT VARIATION AND TAIL CHANNEL EVOLUTION IN YELLOW RIVER ESTUARY
YANJIIE LIANG, CUIHUA AN, QIUSHI LUO
- 1b-8d 01-02-0247 A NEW METHODOLOGY FOR PRESENTING HYDRODYNAMICS DATA FROM A LARGE RIVER CONFLUENCE
FARHAD BAHMANPOURI, NAZIANO FILIZOLA, MARCO IANNIRUBERTO, CARLO GUALTIERI
- 1b-8e 01-02-0795 EVALUATION OF SELECTED ROUGHNESS COEFFICIENT EQUATIONS FOR MOUNTAIN RIVERS IN MALAYSIA
MOHD RIZAL SHUKOR, SHANKER KUMAR SINNAKAUDAN, MUNYATI MOHAMMED, SITI ISMA HANI ISMAIL, MOHD SOFIYAN SULAIMAN
- 1b-8e 01-02-0207 EFFECT OF SKEWNESS ON CLEAR-WATER LOCAL SCOUR AT COMPLEX BRIDGE PIERS
YIFAN YANG, BRUCE W. MELVILLE, ASAAD Y. SHAMSELDIN, HEIDE FRIEDRICH

TECHNICAL SESSION 8B

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Wednesday, 16th August 2017

11.30 AM - 1 PM

ROOM: TDI-B

CHAIR: Dr. Stefan Felder

- 1d-8a 01-04-1175 FLOW NEAR GROYNES: EXPERIMENTAL OR COMPUTATIONAL APPROACHES
QUANG BINH NGUYEN, NGOC DUONG VO, PHILIPPE GOURBESVILLE
- 1d-8b 01-04-0812 NUMERICAL AND EXPERIMENTAL OPTIMIZATION OF FLOW PATTERN THROUGH PIERS OF DAM SPILLWAYS
JAHANI MATIN, JABBARI EBRAHIM, SARKARDEH HAMED, MAROSI MORTEZA
- 1d-8c 01-04-0664 DESTRUCTION MECHANISM OF THE STEP BEHIND THE X-SHAPED FLARING GATE PIERS
ZONGSHI DONG, JUNXING WANG, JUNRONG DA, ZIYI LIAN, WENCHUAN ZHANG
- 1d-8d 01-04-0634 EXPERIMENTAL RESULTS ON SEDIMENT ENTRAINMENT BY GRAVITY CURRENTS
JESSICA ZORDAN, CARMELO JUEZ, ANTON J. SCHLEISS, MÁRIO J. FRANCA
- 1d-8e 01-04-0946 PHYSICAL MODELLING OF SCOUR AROUND BRIDGE PIERS CAUSED BY FLOOD WAVES
OSCAR LINK, SEBASTIAN HENRÍQUEZ, BERND ETTMER
- 1d-8f 01-04-1508 PLANNING OF LOWER MALWATHU OYA RESERVOIR PROJECT-COST BENEFIT ANALYSIS
DON AJITH ROHANA DOLAGE, KITHSIRI WELIGEPOLAGE

TECHNICAL SESSION 8C

THEME 3: ENVIRONMENTAL HYDRAULICS AND INDUSTRIAL FLOWS

Wednesday, 16th August 2017

11.30 AM - 1 PM

ROOM: DTHO

CHAIR: Assoc. Prof. Shanker Kumar Sinnakaudan

- 3a-7a 03-11-0240 A SELF-ADAPTING FISHWAY ENTRANCE FOR THE LARGE VARIATION OF DOWNSTREAM WATER LEVEL
GUANGNING LI, SHUANGKE SUN
- 3a-7b 03-11-1212 MICROHABITAT MODELLING FOR AN ENDANGERED FRESHWATER FISH, LUFUA ECHIGONIA, IN A SPRING-FED URBAN STREAM
YUKI MATSUZAWA, MITSURU OHIRA, SHINJI FUKUDA
- 3a-7c 03-11-0313 BAFFLE SYSTEMS TO FACILITATE UPSTREAM FISH PASSAGE IN STANDARD BOX CULVERTS: HOW ABOUT FISH-TURBULENCE INTERPLAY?
HANG WANG, HUBERT CHANSON
- 3a-7d 03-11-0330 SWIMMING FISH HABITAT EVALUATION CONCEPT FOCUSING ON FLOW CHARACTERISTICS AROUND THE ROUGHNESS LAYER IN STREAMS
MORIHIRO HARADA, RAHMA YANDA, YUKIO ONODA, YUICHI KAYABA
- 3a-7e 03-11-1635 SYDNEY DESALINATION SEAWATER CONCENTRATE OUTFALL LABORATORY AND FIELD INVESTIGATIONS
BRETT M. MILLER, GRANLEY P. SMITH
- 3a-7f 03-11-0963 A HIGH ORDER ELEMENT BASED METHOD TO ESTIMATE HYPORHEIC FLOW IN RIVERS USING THE BURGERS EQUATION
ANTONIO PREZIOSI-RIBERO, EDWIN SAAVEDRA-CIFUENTES, JORGE ALBERTO ESCOBAR-VARGAS, LEONARDO DAVID DONADO

TECHNICAL SESSION 8D

THEME 2: FLOOD MANAGEMENT

Wednesday, 16th August 2017

11.30 AM - 1 PM

ROOM: Johor / Kedah

CHAIR: Dr. Norlida Mohd Dom

- 2a-3a 02-06-0178 A FLOOD ANALYSIS MODEL FOR RIVERS IN LOW-LAYING AREAS THAT INTEGRATES INLAND WATER AND BACKWATER
TAKEHIRO OKI, MAKOTO NAKATSUGAWA
- 2a-3b 02-06-0164 LARGE WOOD ACCUMULATION PROBABILITY AT A SINGLE BRIDGE PIER
ISABELLA SCHALKO
- 2a-3c 02-06-0046 EXTREME FLOOD FLOW IN AN INCREASINGLY URBANIZED FLOODPLAIN: AN EXPERIMENTAL APPROACH
SEBASTIÁN GUILLÉN-LUDEÑA, DIEGO LOPEZ, NICOLAS RIVIERE, EMMANUEL MIGNOT
- 2a-3d 02-06-1538 A NEW APPROACH FOR IMPROVING FLOOD MODEL PREDICTIONS BASED ON THE SEQUENTIAL ASSIMILATION OF SAR-DERIVED FLOOD EXTENT MAPS
RENAUD HOSTACHE, MARCO CHINI, LAURA GIUSTARINI, MELISSA WOOD, GIOVANNI CORATO, PATRICK MATGEN
- 2a-3e 02-06-1148 FLASH FLOOD INUNDATION ANALYSIS CONSIDERING THE AGGRADATIONS OF RIVERBED IN GOWAIN RIVER, BANGLADESH
MASAKAZU HASHIMOTO, KENJI KAWAIKE, YUJI HASEGAWA, TOMONORI DEGUCHI, SHAMMI HAQUE, ARPAN PAUL, MASHFIQUS SALEHIN, HAJIME NAKAGAWA
- 2a-3f 02-06-1334 FLOODSS: CALL FOR COMMUNITY ACTION
MARIAN MUSTE

TECHNICAL SESSION 8E

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Wednesday, 16th August 2017

11.30 AM - 1 PM

ROOM: Kelantan

CHAIR: Dr. Ismail Albayrak

- 1c-3a 01-03-0676 FEASIBILITY STUDY OF SEDIMENT FLUSHING FROM A MEXICAN RESERVOIR LOCATED IN THE VALLEY OF MEXICO BASIN; BY USING NUMERICAL MODELS IN 2D AND 3D
MIGUEL ANGEL BRIBIESCA RODRÍGUEZ, JORGE IVAN JUÁREZ DEHESA, FERNANDO J. GONZÁLEZ VILLARREAL
- 1c-3b 01-03-1122 ESTIMATION OF PEAK AND SURGE SHAPE OF DEBRIS FLOW USING CCTV CAMERA AND SEISMOMETER
SATORU MATSUDA, YOTARO NISHI, TSUYOSHI IKESHIMA, TAKAHIRO ITOH, TAKAHISA MIZUYAMA
- 1c-3c 01-03-0936 LABORATORY EXPERIMENTS OF PULSED SUBAQUEOUS SEDIMENT DENSITY FLOWS: INTERNAL STRATIFICATION AND LAYERING
MARIANGELA SFOUNI-GRIGORIADOU, CARMELO JUEZ, MARIO J. FRANCA, BENOIT SPINEWINE
- 1c-3d 01-03-1565 INFLUENCE OF THE UPPER YANGTZE RIVER SEDIMENT DECREASING ON SEDIMENTATION IN THREE GORGES RESERVOIR
WENJIE LI, SHENGFA YANG, PINGYI WANG, YI XIAO, JIANG HU, XUHUI FU
- 1c-3e 01-03-0977 ASSESSMENT OF EFFICIENCY AND ENVIRONMENTAL IMPACT OF SEDIMENT FLUSHING FROM WLINGI AND LODOYO CASCADE RESERVOIRS, INDONESIA
FAHMI HIDAYAT, PITOJO TRI JUWONO, AGUS SUHARYANTO, ALWAFI PUJIRAHARJO, DJOKO LEGONO, DIAN SISINGGIH, FIRMAN SARIFUDIN EFFENDI
- 1c-3f 01-03-1299 DIRECT DEBRIS FLOW MONITORING USING LOAD CELL SYSTEMS IN SAKURAJIMA ISLAND
TAKAHIRO ITOH, TAKAHISA MIZUYAMA, SATOSHI TAGATA

TECHNICAL SESSION 8F

THEME 7: HYDROINFORMATICS / COMPUTATIONAL METHODS AND EXPERIMENTAL METHODS

Wednesday, 16th August 2017

11.30 AM - 1 PM

ROOM: Melaka

CHAIR: Prof. Hiroshi Hayakawa

- 7a-2a 07-31-0932 LATTICE BOLTZMANN SIMULATION OF SHALLOW WATER EQUATIONS IN CHARACTERISTIC GALERKIN FINITE ELEMENT FRAMEWORK
HAEGYUN LEE, NAMJOO LEE
- 7a-2b 07-31-1405 URBAN FLOOD SIMULATION USING CHRE2D MODEL
JENNIFER G DUAN
- 7a-2c 07-31-0637 SPH MODELING OF OSCILLATING CHARACTERISTICS OF HYDRAULIC JUMPS
DIANA DE PADOVA, MICHELE MOSSA, STEFANO SIBILLA
- 7a-2d 07-31-0614 COMPUTATIONAL HYDRODYNAMICS SIMULATIONS WITH UPC PARALLEL ARCHITECTURE
TUNG T. VU, ALVIN W.Z. CHEW, ADRIAN WING-KEUNG LAW
- 7a-2e 07-31-0341 A GPU MODEL FOR SIMULATING HYDRODYNAMIC HAZARDS: APPLICATION TO TSUNAMI BENCHMARKS
FAHAD MOHAMMED
- 7a-2f 07-31-1369 EXPERIMENTAL BENCHMARKING OF MESH SIZE AND TIME-STEP CONVERGENCE FOR A 1ST AND 2ND ORDER SWE FINITE VOLUME SCHEME
GREG COLLECUTT, BILL SYME

TECHNICAL SESSION 8G

THEME 4: COASTAL, ESTUARIES AND LAKES MANAGEMENT

Wednesday, 16th August 2017

11.30 AM - 1 PM

ROOM: Negeri Sembilan

CHAIR: Ir. Dr. Hin Lee Lee

- 4d-1a 04-19-0467 RESPONSES OF HYDRODYNAMIC AND WATER EXCHANGE TO THE TIDAL INLET WIDTH OF QILIHAI LAGOON WETLAND
ZHI-CHAO DONG, CUI-PING KUANG, YUE MA, JIE GU
- 4d-1b 04-19-0465 AN UPDATED CATEGORISATION OF COASTAL EROSION AND VULNERABILITY INDEX ALONG MELAKA STATE
AHMAD KHAIRI ABD WAHAB, ROSITA SALAM, DAENG SITI MAIMUNAH ISHAK
- 4d-1c 04-19-1545 ANALYSIS ON COMBINING LANDSCAPE PATTERN WITH HYDROLOGICAL ADJUSTING FUNCTION IN POYANG LAKE AREA
CHENGLIN LIU, XIA HU, XINGDONG ZHANG, CHENJUN ZENG
- 4d-1d 04-19-0568 3D WIND EFFECTS ON HYDRODYNAMICS AND TRANSPORT IN A BRAZILIAN BAY
ELENA MATTA, FLORIAN SELGE, GÜNTER GUNKEL, REINHARD HINKELMANN
- 4d-1e 04-19-0087 STUDY ON CONTROL MEASURES OF WATER QUALITY OF LAKE YINGHU
CUICHAO PANG, JING TAO, XIAOHUI WU, WEI GONG, FANGFANG WANG

TECHNICAL SESSION 8H

THEME 6: WATER RESOURCES MANAGEMENT

Wednesday, 16th August 2017

11.30 AM - 1 PM

ROOM: Pahang

CHAIR: Prof. Sung-uk Choi

- 6d-2a 06-29-1220 COMBINING AN IMPROVED SNOW MODEL WITH ABOVE-GROUND NEUTRON SENSING AND REMOTE SENSING
PAUL SCHATAN, GABRIELE BARONI, SASCHA E. OSWALD, JOHANNES SCHÖBER, CHRISTINE FEY, TILL FRANCKE, MATTHIAS HUTTENLAU, ROBERT KIRNBAUER, STEFAN ACHLEITNER
- 6d-2b 06-29-0658 DEALING WITH UNCERTAINTY IN DRINKING WATER SUPPLY SYSTEMS MANAGEMENT IN CASE OF DISASTERS
ALESSANDRO PAGANO, RAFFAELE GIORDANO, IRENE PLUCHINOTTA, ANNA BRUNA PETRANGELI, UMBERTO FRATINO, MICHELE VURRO
- 6d-2c 06-29-0510 SEEKING THE OPTIMUM GROUNDWATER MONITORING NETWORK USING A GENETIC ALGORITHM APPROACH
MUSTAFA TAMER AYVAZ, ALPER ELÇI
- 6d-2d 06-29-0724 WATER ALLOCATION MODELLING: A COMPARISON OF RANKING AND PENALTY APPROACHES IN MIKE HYDRO BASIN
BERTRAND RICHAUD, ROAR JENSEN, EDUARDO MUNOZ, KEIKO YAMAGATA, MICHAEL BUTTS
- 6d-2e 06-29-0974 INTEGRATED HYDRO-ENVIRONMENT ASSESSMENT WITH LATITUDE (IHEAL): A FRAMEWORK FOR CONCEPTUALIZING AND QUANTIFYING WATER USE SUSTAINABILITY IN IWRM
CARTER BORDEN, PETER GOODWIN, DARREN SWANSON
- 6d-2f 06-29-1485 COPULA-BASED UNCERTAINTY ANALYSIS FOR THE IMPACT OF MULTI-WATER RESOURCES ON OPTIMAL ALLOCATION AND AGRICULTURAL SHORTAGE
YINZHU LIU, XUEPING GAO, BOWEN SUN

TECHNICAL SESSION 8I

THEME 3: ENVIRONMENTAL HYDRAULICS AND INDUSTRIAL FLOWS

Wednesday, 16th August 2017

11.30 AM - 1 PM

ROOM: Perak

CHAIR: Prof. Takashi Asaeda

- 3e-2a 03-15-0380 IMPROVEMENT OF FLOW PATTERN IN MULTI-UNIT PUMPING STATION WITH SIDE-INTAKE BASED ON CFD NUMERICAL SIMULATION
LUO CAN, LIU CHAO
- 3e-2b 03-15-0820 NUMERICAL STUDY OF TURBULENT OSCILLATIONS AROUND A CYLINDER: RANS CAPABILITIES AND SENSITIVITY ANALYSIS
DANIEL VALERO, DANIEL B. BUNG, SEBASTIEN ERPICUM, BENJAMIN DEWALS
- 3e-2c 03-15-0763 DIRECT EROSION PREDICTION USING SPH-FEM COUPLING
WIEBKE BODEN, JORGE NUNEZ, GUILLAUME COUDOUEL, STEPHANE AUBERT, JEAN-CHRISTOPHE MARONGIU, ALAIN COMBESCURE, RICHARD PERKINS
- 3e-2d 03-15-0415 LA COCHE PELTON ENHANCEMENT PROJECT SCALE MODEL
GREGORY GUYOT, MATHIEU RODRIGUEZ
- 3e-2e 03-15-0657 ANALYSIS OF THE HYDRAULIC PERFORMANCES OF PERFORATED PLATES BASED ON EXPERIMENTAL DATA
ALESSANDRO PAGANO, UMBERTO FRATINO
- 3e-2f 03-15-0659 EXPERIMENTAL INVESTIGATION OF THE EFFECTS OF INTAKE DESIGNS ON COMPACT TURBINES
DANIEL INNERHOFER, MARKUS AUFLEGER

SPECIAL SESSION 6B

TOPIC: COASTAL RESERVOIR -- A TECHNOLOGY THAT CAN DEVELOP FRESHWATER FROM THE SEA WITHOUT DESALINATION

Wednesday, 16th August 2017

11.30 AM - 1 PM

ROOM: Perlis

CHAIR: Prof. Shu-Qing Yang

- 8f-2a 08-41-1582 SEA DIKE CONSTRUCTION CHALLENGES IN COASTAL WATERS FOR STORAGE OF RIVER FLOOD WATERS: SUSTAINABLE STRATEGY FOR WATER RESOURCE DEVELOPMENT USING COASTAL RESERVOIRS
T. G. SITHARAM
- 8f-2b 08-41-1610 RESEARCH OF THE INFLUENCE OF SALINITY INTRUSION ON QINGCAOSHA WATER SOURCE
LEI DING, XIANG-YU GAO, XI-PING DOU, JIAN JIAO, XIANG LI
- 8f-2c 08-41-1593 COASTAL RESERVOIR IN LAKE ALEXANDRINA CAN QUENCH ADELAIDE'S THIRST
SHU-QING YANG, MUTTUCUMARU SIVAKUMAR, BRIAN G. JONES, JIANLI LIU
- 8f-2d 08-41-1619 JINGTANT PORT SITE SELECTION AND PLANNING
JIANQUAN WU, WENCAI DONG
- 8f-2e 08-41-1573 DISCUSSION ON COASTAL ENGINEERING RELATED TO COASTAL RESERVOIR
JIN-QUAN WU, BO WU, LI-SHA YUAN, MEI LI, XUE-FENG CHANG, SHOU-YUAN WU, QING-HUA SONG
- 8f-2f 08-41-1594 STUDY ON RESERVOIR WATER AND SEDIMENT DISPATCHING OPERATION SYSTEM FOR THE PRE-CONTROL OF THE EUTROPHICATION
HONG-YAN JI, CAI-E WU, JIAN-ZHONG YUAN
- 8f-2g 08-41-1613 ANALYSIS ON RESPONSE CHARACTERISTICS OF WATER QUALITY TO THERMAL STRATIFICATION IN DAHUOFANG RESERVOIR
XIAO YU, QIAN ZHANG, YISI ZHU GE, QIANG DU, GUOQIANG LI

SPECIAL SESSION 1D

TOPIC: TRANSIENTS IN PIPES

Wednesday, 16th August 2017

11.30 AM - 1 PM

ROOM: Pulau Pinang

CHAIR: Prof. Jim C. P. Liou and Prof. Bruno Brunone

- 8a-4a 08-36-1537 COMBINING OPTIMAL FILTERING WITH PUMP SCHEDULING FOR REAL-TIME ENERGY MANAGEMENT IN WATER DISTRIBUTION SYSTEMS
ERNESTO ARANDIA, JOE NAOUM-SAWAYA
- 8a-4b 08-36-0051 MECHANISMS THAT LEAD TO THE OCCURRENCE OF VIOLENT GEYSERS IN STORMWATER AND COMBINED SEWER SYSTEMS
ARTURO S. LEON
- 8a-4c 08-36-1608 ANALYSIS OF PIPE TRANSIENTS IN HYDROPOWER INSTALLATIONS
GORAN PAVIĆ, FABIEN CHEVILLOTTE
- 8a-4d 08-36-1070 DESIGN OF AIR CHAMBER FOR MITIGATING TRANSIENT PRESSURES IN A PUMPING MAIN
NANGIGADDA MOWLALI, RUBEN NERELLA, VENKATA RATHNAM ERVA
- 8a-4e 08-36-0655 OPTIMIZATION OF AFFECTING PARAMETERS OF PRESSURE RELIEF VALVE USING GENETIC ALGORITHM
HYUNJUN KIM, DAWON BAEK, GEONJI KIM, EUNHYUNG LEE, MINJI CHO, XIAOYI DONG, SANGHYUN KIM
- 8a-4f 08-36-1298 CFD ANALYSIS OF MULTI-SCALE TRANSIENT FLOWS ON THE FRANCIS TURBINE UNDER THE LOAD REDUCTION CONDITION
DAQING ZHOU, JIE ZHANG

TECHNICAL SESSION 9A

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Thursday, 17th August 2017

9.30 AM - 11 AM

ROOM: TDI-A

CHAIR: Prof. Yonghui Zhu

- 1b-9a 01-02-0300 EXPERIMENTAL STUDY ON TIDAL BASIN MANAGEMENT: A CASE STUDY OF BANGLADESH
ROCKY TALCHABHADEL, HAJIME NAKAGAWA, KENJI KAWAIKE, NASSIM SAHBOUN
- 1b-9b 01-02-0421 LONGITUDINAL CHANGES IN SUSPENDED SEDIMENT LOADING AND SEDIMENT BUDGET OF MERBOK RIVER CATCHMENT, KEDAH, MALAYSIA
WAN RUSLAN ISMAIL, MOHD NAZRUL IBRAHIM, SUMAYYAH AIMI MOHD NAJIB
- 1b-9c 01-02-0684 OPERATION OF XIAOLANGDI RESERVOIR AND EVOLUTION RESPONSE OF LOWER YELLOW RIVER
JIAN FU, CUIXIA CHEN, SHITAO WEI, SHENG QIAN, ZENGHUI WANG
- 1b-9d 01-02-0939 SIMULATION OF TRAP EFFICIENCY FOR SRIRAMSAGAR RESERVOIR USING ARTIFICIAL NEURAL NETWORK TECHNIQUES
QAMAR SULTANA, M. GOPALNAIK
- 1b-9e 01-02-0788 ASSESSMENT OF SEDIMENT RATING CURVES FOR MOUNTAIN RIVERS IN MALAYSIA
SHANKER KUMAR SINNAKAUDAN, MOHD RIZAL SHUKOR, MUNYATI MOHAMMED, AZWIN ZAILITI ABDUL RAZAD
- 1b-9f 01-02-0398 EXPERIMENTAL INVESTIGATION OF BEDLOAD SEDIMENT TRANSPORT AND BED EVOLUTION IN DOUBLE-PEAKED HYDROGRAPH
LE WANG, ALAN J.S. CUTHBERTSON, DEYU ZHONG, GARETH PENDER, ZHIXIAN CAO

TECHNICAL SESSION 9B

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Thursday, 17th August 2017

9.30 AM - 11 AM

ROOM: TDI-B

CHAIR: Dr. Helge Fuchs

- 1d-9a 01-04-0787 PRESSURE PROPERTIES AT THE BOTTOM OF A STILLING WELL
JINGJING ZHAI, QINGYUAN YANG, TAO ZHU
- 1d-9b 01-04-1623 ESTIMATION OF FAILURE TIME FOR EMBANKMENT DAMS
SAAD SHAUKET SAMMEN, THAMER AHMEED MOHAMED, ABD ALHALIM GHAZALI, LARIYAH MOHD SIDEK, AZLAN ABDUL AZIZ
- 1d-9c 01-04-1406 REDUCTION PULSATING WAVES WITH CASCADE ON THE DOWNSTREAM OF POSO I HYDROPOWER STATION'S ENERGY DISSIPATOR
LINDA PRASETYORINI, DWI PRIYANTORO, NADJADJI ANWAR
- 1d-9d 01-04-1062 PHYSICAL MODELING OF OVERTOPPING INDUCED FLUVIAL DIKE FAILURE: EFFECTS OF MAIN CHANNEL FLOW AND FLOODPLAIN INUNDATION
ISMAIL RIFAI, SEBASTIEN ERPICUM, PIERRE ARCHAMBEAU, DAMIEN VIOLEAU, MICHEL PIROTON, BENJAMIN DEWALS, KAMAL EL KADI ABDERREZZAK
- 1d-9e 01-04-1386 NEW EQUATIONS FOR FLOW DRAG FORCE AND ITS APPLICATION
SHU-QING YANG
- 1d-9f 01-04-1315 SEEPAGE SIMULATION ON PUTRAJAYA EARTH FILL DAM
MUHAMMAD RIZAL RAZALI, SAAD SH SAMMEN, AZZLIA MOHD UNAINI, THAMER AHMED MOHAMMED ALI

TECHNICAL SESSION 9C

THEME 3: ENVIRONMENTAL HYDRAULICS AND INDUSTRIAL FLOWS

Thursday, 17th August 2017

9.30 AM - 11 AM

ROOM: DTHO

CHAIR: Ir. Dato' Chow Hock Lim

- 3a-8a 03-11-0554 LARGE EDDY SIMULATION OF A ROUND THERMAL BUOYANT JET IN A CROSS FLOW
YIZHOU XIAO, WENXIN HUAI, ZHONGHUA YANG, MENG GAO
- 3a-8b 03-11-0961 IMPACT OF BOUNDARY CONDITIONS ON A NUMERICAL MODEL OF FLOW OVER A POROUS BED AS AN APPROACH OF A RIVER'S HYPORHEIC ZONE
EDWIN SAAVEDRA-CIFUENTES, ANTONIO PREZIOSI-RIBERO, JORGE ALBERTO ESCOBAR-VARGAS, LEONARDO DAVID DONADO
- 3a-8c 03-11-1547 EXPERIMENTAL STUDY ON THE IMPACT OF HYDRAULIC CHARACTERISTIC ON THE DISSIPATION PROCESS OF SUPERSATURATED TOTAL DISSOLVED GAS
CHENJUN ZENG, QIUWEN CHEN, JIN ZHANG, YUQING LIN, XIA HU
- 3a-8d 03-11-0856 MODELLING THE IMPACT OF MICROBIAL SOURCES ON WATER QUALITY: A STUDY ON THE DESIGNATED SAMPLING POINT IN SWANSEA BAY, UK
JONATHAN KING, REZA AHMADIAN, AMYHRUL ABU BAKAR, ROGER A. FALCONER
- 3a-8e 03-11-1116 FAECAL COLIFORM ATTACHMENT TO SETTLEABLE SUSPENDED SEDIMENT PARTICLES OF DIFFERENT SIZES
DEJUN ZHU, LEI JIANG, YONGCAN CHEN, TAO WU
- 3a-8f 03-11-0186 INFLUENCE OF LONGITUDINALLY DISCONTINUOUS VEGETATION ARRANGEMENT PATTERN ON TURBULENT STRUCTURE IN OPEN CHANNEL
TAKAYUKI TANAKA, TERUNORI OHMOTO

TECHNICAL SESSION 9D

THEME 6: WATER RESOURCES MANAGEMENT

Thursday, 17th August 2017

9.30 AM - 11 AM

ROOM: Johor / Kedah

CHAIR: Assoc. Prof. Dawei Zhang

- 6a-6a 06-26-0735 SEASONAL FORECASTING OF RESERVOIR INFLOWS AND THEIR UNCERTAINTIES
MICHAEL BUTTS, ROAR JENSEN, JACOB LARSEN, HENRIK MUELLER, BERTRAND RICHAUD, PETER LARSEN, MIGUEL ÁNGEL CORCUERA BARRERA, BASEL DRAW, ALEJANDRO E. LASARTE
- 6a-6b 06-26-1532 WATER AVAILABILITY FOR HYBRID OFF-RIVER AUGMENTATION SYSTEM (HORAS) IN LANGAT RIVER
MD MOBASSARUL HASAN, ZALIN AMIR, ABDULLAH AL-MAMUN
- 6a-6c 06-26-1056 MANAGEMENT STRATEGY BASED ON JOINT PROBABILITY ANALYSIS OF WATER QUANTITY AND QUALITY FOR CHAO RIVER, NORTH CHINA
XUAN WANG, NAN ZANG, PEI YU LIANG
- 6a-6d 06-26-1095 SWAT-BASED OPTIMIZATION FOR AGRICULTURAL NONPOINT SOURCES POLLUTION CONTROL
CHAO DAI, XIAOSHENG QIN, HUAI CHENG GUO
- 6a-6e 06-26-1266 STATISTICAL CHARACTERISTICS OF EXTREME DROUGHT OF KOREA USING PALEOCLIMATIC DATA
JOO-HEON LEE, HO-WON JANG, SEO-YEON PARK, HYUN-PYO HONG, TAE-WOON KIM
- 6a-6f 06-26-1306 A FUNDAMENTAL STUDY FOR IMPACT ASSESSMENT OF CLIMATE CHANGE ON OPERATION OF RESERVOIR SYSTEMS FOR WATER SUPPLY IN JAPAN
SHUNSUKE SUZUKI, DAISUKE NOHARA, TOMOHARU HORI, YOSHINOBU SATO

TECHNICAL SESSION 9E

THEME 2: FLOOD MANAGEMENT

Thursday, 17th August 2017

9.30 AM - 11 AM

ROOM: Kelantan

CHAIR: Hajjah Zalilah Selamat

- 2c-4a 02-08-0844 STUDY ON THE DECISION-MAKING METHOD FOR RESERVOIR OPERATION SCHEME BASED ON BAYESIAN MODEL
MINGLEI REN, XIAOYAN HE, HUI LI, XIAOMING JIANG
- 2c-4b 02-08-0781 PERFORMANCE ON INFLOW FORECASTING INTO TEMENGOR DAM USING INTEGRATED FLOOD ANALYSIS SYSTEM
MOHD IDHAM NAJID, LARIYAH MOHD SIDEK, HIDAYAH BASRI, AZWIN RAZAD, MAZLAN MOHD SOM
- 2c-4c 02-08-1604 RESEARCH AND PRACTICE ON JOINT FLOOD CONTROL OPERATION FOR THE XILUODU-XIANGJIABA-THREE GORGES RESERVOIRS GROUP
TING HU, HAI WANG, XING-E HU
- 2c-4d 02-08-0791 FLOOD MITIGATION MEASURES TOWARDS ACHIEVING ZERO FLOOD FOR SUNGAI KERAYONG CATCHMENT, SUNGAI KLANG RIVER BASIN
YUK SAN LIEW, NURFARESYA ZAINURIN, NORSYAMIRA HASSAN, AZMAN MAT JUSOH, NASEHIR KHAN E.M. YAHAYA, JAZURI ABDULLAH, MOHD FOZI ALI, AZMI IBRAHIM
- 2c-4e 02-08-1514 HYDRAULICS OF A HYDRAULIC JUMP AERATION BASIN
YU ZHOU, JIANHUA WU
- 2c-4f 02-08-0010 ROAD INTERSECTION AS STORMWATER DETENTION BASIN
DARRIEN YAU SENG MAH, SIEW LING LOH, GABRIELLA SABATINI POUL, WAN HASHIM WAN IBRAHIM

TECHNICAL SESSION 9F

THEME 4: COASTAL, ESTUARIES AND LAKES MANAGEMENT

Thursday, 17th August 2017

9.30 AM - 11 AM

ROOM: Melaka

CHAIR: Prof. Pengzhi Lin

- 4c-4a 04-18-0532 LABORATORY STUDY OF WAVE-INDUCED SETUP OVER FRINGING REEFS UNDER THE EFFECT OF TIDAL CURRENT
YU YAO, WENRUN HE, RUICHAO DU, CHANGBO JIANG
- 4c-4b 04-18-0661 ESTIMATION OF WAVE PROPAGATION VELOCITY ON A CHANNEL WITH SMOOTH AND ROUGH BED
DAVIDE WUTHRICH, MICHAEL PFISTER, IOAN NISTOR, ANTON J. SCHLEISS
- 4c-4c 04-18-0282 HYDROLOGIC EVOLUTION DUE TO AN ARTIFICIAL CHANNEL AND CLIMATE CHANGE IN THE PEEL-HARVEY ESTUARY
PEISHENG HUANG, MATTHEW HIPSEY, DYLAN PRITCHARD
- 4c-4d 04-18-0944 MODELLING THE IMPACTS OF TIDAL RANGE ENERGY STRUCTURES IN THE SEVERN ESTUARY AND BRISTOL CHANNEL, UK
NEJC ČOŽ, REZA AHMADIAN, ROGER A. FALCONER
- 4c-4e 04-18-1449 TRACKING SEDIMENT TRACER IN AN EULERIAN MODEL
HONGHAI LI, TANYA M. DECK, TAHIRIH C. LACKEY, HANS R. MORITZ, KATHARINE GROTH, TRAPIER PUCKETTE, JON MARSH
- 4c-4f 04-18-1488 UNDERSTANDING THE CHANGING HYDRO-ENVIRONMENT AND ECOSYSTEM-BASED LIVELIHOODS IN COASTAL BANGLADESH
ROBERT J. NICHOLLS, ATTILA N. LAZAR, CRAIG W. HUTTON, HELEN J. ADAMS, MASHFIQUS SALEHIN, ANISUL HAQUE, MUNSUR RAHMAN, DEREK CLARKE

TECHNICAL SESSION 9G

THEME 2: FLOOD MANAGEMENT

Thursday, 17th August 2017

9.30 AM - 11 AM

ROOM: Negeri Sembilan

CHAIR: Dr. Andrew Cornett

- 2d-3a 02-09-0748 RIVERBED INCISION DAMAGABLE TO HYDRAULIC STRUCTURE AND ITS COUNTERMEASURES
CHANGHAI HAN, YU YANG, YANFU LI, GAOWEN TAN
- 2d-3b 02-09-0139 FLOOD-INDUCED DEBRIS MOTION IN A BUILT-IN ENVIRONMENT
IOAN NISTOR, NILS GOSEBERG, JACOB STOLLE
- 2d-3c 02-09-1258 FLOOD PROCESS IN OTOMO DISTRICT, IWAIZUMI CITY, IWATE PREFECTURE DUE TO TYPHOON NO.10, 2016
HIROTAKA MORIYA, YASUO NIHEI, RIKITO MIZUNO, TOMOYA KATAOKA
- 2d-3d 02-09-1193 DESIGNING WITH MULTIFUNCTIONALITY: GREEN INFRASTRUCTURE, FLOOD RESILIENCE AND COMMUNITY WELL-BEING
ZORAN VOJINOVIC, WEERAYA KEERAKAMOLCHAI, ALIDA ALVES, ARLEX SANCHEZ, SUTAT WEESAKUL, MUKAND S. BABEL
- 2d-3e 02-09-0413 BLOCKING PROBABILITY OF DRIFTWOOD AT OGEE CREST SPILLWAYS WITH PIERS: INFLUENCE OF WOODY DEBRIS CHARACTERISTICS
PALOMA FURLAN, MICHAEL PFISTER, JORGE MATOS, ANTON J. SCHLEISS
- 2d-3f 02-09-1472 ANALYSIS OF RAINFALL IN AN ARID ZONE OF SOUTH AMERICA
JOSE VARGAS BAECHELER, PABLO VIDAL SALAZAR

TECHNICAL SESSION 9H

THEME 6: WATER RESOURCES MANAGEMENT

Thursday, 17th August 2017

9.30 AM - 11 AM

ROOM: Pahang

CHAIR: Prof. Amir Hashim Mohd Kassim

- 6c-2a 06-28-0641 BALANCING DEVELOPMENT OF COAL-ELECTRICITY POWER WITH AVAILABLE WATER RESOURCES IN MAJOR COAL BASES OF CHINA
SHAN JIANG, QING MING WANG, JIAN HUA WANG, YONG ZHAO
- 6c-2b 06-28-0518 DISCUSSION ON URBAN WATER RESOURCES ALLOCATION BASED ON MINIMUM ENERGY CONSUMPTION
ZHAOHUI YANG, HAO WANG, XINMING XIE, HUAXIANG HE
- 6c-2c 06-28-0867 ANALYTICAL STUDY ON THE WATER RESOURCES CARRYING CAPACITY OF LARGE SCALE ENERGY BASES ON THE MIDDLE-UPPER REACHES OF THE YELLOW RIVER
FAN HE, JING YIN, YONG ZHAO, HAIHONG LI, JIANHUA WANG, JIAQI ZHAI, YONGNAN ZHU, SHI FENG
- 6c-2d 06-28-0469 PHYTOTOXICITY EVALUATION AND PHYSIOLOGICAL RESPONSES OF VIGNA RADIATA SEEDLINGS GROWN IN THE LEAD-DOPED IRRIGATION WATER
YUH NIEN CHOW, LAI KUAN LEE, NOR AZAZI ZAKARIA, KENG YUEN FOO
- 6c-2e 06-28-0191 ANALYSIS OF THE IMPLEMENTATION OF THE TOTAL WATER USE CONTROL IN CHINA'S MOST STRINGENT WATER RESOURCES MANAGEMENT SYSTEM
WEIWEI SHAO, DAN XU, JIAHONG LIU, GUIYU YANG, JIANHUA WANG, YONGQIANG CAO, HAIBING WU, SHUANG ZHENG
- 6c-2f DISCUSSION ON THE CONNECTION OF THE LEGISLATIONS BETWEEN NATIONAL AND LOCAL WATER RESOURCE MANAGEMENT
CHEN XIAN

TECHNICAL SESSION 9I

THEME 7: HYDROINFORMATICS / COMPUTATIONAL METHODS AND EXPERIMENTAL METHODS

Thursday, 17th August 2017

9.30 AM - 11 AM

ROOM: Perak

CHAIR: Assoc. Prof. Majid Mohammadian

- 7c-3a 07-33-0189 LASER-POSITIONING PIV MEASUREMENT IN THE FIELD USING ANDROID DEVICES
WEN-YI CHANG, FRANCO LIN, WHEY-FONE TSAI, JIHN-SUNG LAI, CHIN-HSIUNG LOH, TAI-SHAN LIAO
- 7c-3b 07-33-0126 DEVELOPMENT OF A LARGE-EDDY-SIMULATION FOR FREE SURFACE COMPLEX FLOWS
ADRIEN BOURGOIN, SYLVAIN GUILLOU, JÉRÔME THIÉBOT, SOFIANE BENHAMADOUCHE, RIADH ATA
- 7c-3c 07-33-0181 FORECASTING OF SIGNIFICANT WAVE HEIGHTS USING A HYBRID EOF-WAVELET-ANN APPROACH
JIHEE OH, KYUNG DUCK SUH
- 7c-3d 07-33-1100 EXPERIMENTAL AND NUMERICAL INVESTIGATION OF PIANO KEY WEIRS
METE KOKEN, ISMAIL AYDIN, EMRE HASPOLAT, AHMET NAZIM SAHIN
- 7c-3e 07-33-1078 PREDICTION OF TIDES OFF MITHIVIDI, GUJARAT – WEST COAST OF INDIA
PRASHANTH JANARDHAN, HARISH NARAYAN, SUKOMAL MANDAL
- 7c-3f 07-33-1474 NUMERICAL AND PHYSICAL MODELING OF WATER FLOW IN V-SHAPED STEPPED SPILLWAY
ZHAOLIANG BAI, JIANMIN ZHANG

SPECIAL SESSION 3A

TOPIC: GREEN INFRA AS DISASTER RISK REDUCTION MEASURES IN THE ASIAN-PACIFIC REGION

Thursday, 17th August 2017

9.30 AM - 11 AM

ROOM: Perlis

CHAIR: Prof. Hyoseop Woo

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| 8c-1a | 08-38-1634 | (INVITED) QUANTIFYING THE ROLE OF VEGETATION IN DISASTER RISK REDUCTION MEASURES, FROM ACADEMIC RESEARCH TO PRACTICAL IMPLEMENTATION OF GREEN INFRASTRUCTURES
<i>W. ELLIS PENNING</i> |
| 8c-1b | 08-38-1467 | A SMALL MULTIPURPOSE RETARDING BASIN IN UGM CAMPUS AREA
<i>JOKO SUJONO, MUHAMMAD SULAIMAN, RACHMAD JAYADI</i> |
| 8c-1c | 08-38-1477 | ESTIMATION OF TSUNAMI FORCE REDUCTION AND THE BREAKING MODE OF COASTAL TREES APPLICABLE TO COASTAL FOREST MANAGEMENT AS A BIOSHIELD
<i>NORIO TANAKA, HAJIME SATO, YUTA AKASAKI, HIROYUKI TORITA</i> |
| 8c-1d | 08-38-1468 | PREPAREDNESS FOR DISASTER RISK MANAGEMENT (DRM), CASE STUDIES: KELANTAN FLOOD 2014
<i>MOHD SAYUTI HASSAN, NOR AZAZI ZAKARIA, KAMARULAZIZI IBRAHIM, MURSHIDAH ABDUL JAFFAR, SHAHAD KHALDOON ABDULAMEER</i> |
| 8c-1e | 08-38-1500 | GREEN INFRASTRUCTURE IN CONSTRUCTION OF SPONGE CITY - A CASE STUDY IN XIAMEN, CHINA
<i>CHENYAO XIANG, JIAHONG LIU, WEIWEI SHAO, JINJUN ZHOU, CHAO MEI, LIN XIA</i> |

SPECIAL SESSION 5A

TOPIC: FUNCTION OF GOVERNANCE TO RIVER RESTORATION UNDER THE CLIMATE CHANGE

Thursday, 17th August 2017

9.30 AM - 11 AM

ROOM: Pulau Pinang

CHAIR: Prof. Suk Hwan Jang

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| 8e-1a | 08-40-1580 | A NONSTATIONARY TRIVARIATE DROUGHT FREQUENCY MODEL FOR ESTIMATING DROUGHT RISK IN A CHANGING CLIMATE
<i>JIN-YOUNG KIM, HYUN-HAN KWON, JIN-GUK KIM, SUK-HWAN JANG</i> |
| 8e-1b | 08-40-1578 | TEMPORAL STREAMATE CHARACTERISTICS OF WATER LEVELS AND RIVER STORAGE EFFECT IN A RIVER HAVING SUDDEN CONTRACTION
<i>ICHIU KOISHI, TADASHI YAMADA</i> |
| 8e-1c | 08-40-0818 | PROGRESS OF RIVER RESTORATION TECHNOLOGIES AND PRACTICES IN CHINA
<i>JINYONG ZHAO, ZHEREN DONG, WENQI PENG, BAOLIGAO BAIYIN, JING ZHANG</i> |
| 8e-1d | 08-40-1577 | STUDY ON WATER QUALITY COUNTERMEASURES IN CONSIDERATION OF UNCERTAINTY IN LAKE AND RESERVOIR
<i>DAIKI KAKINUMA, TADASHI YAMADA</i> |
| 8e-1e | 08-40-1618 | ASSESSMENT OF ACUTE IMPACT OF HIGH SEDIMENT CONCENTRATION ON YELLOW RIVER CARP
<i>FENGRAN XU, BAOLIGAO BAIYIN, XINGRU CHEN, HUANHUAN DENG</i> |

TECHNICAL SESSION 10A

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Thursday, 17th August 2017

11.30 AM - 1 PM

ROOM: TDI-A

CHAIR: Dr. James Sutherland

- 1b-10a 01-02-0799 GEOMORPHIC IMPACTS OF THE OPERATION OF XIAOLANGDI RESERVOIR ON THE LOWER YELLOW RIVER
JUNQIANG XIA, JIE LI, SHIYUAN ZHANG, TAO LI
- 1b-10b 01-02-1384 COMBINING LOCAL 3-D FLOW INFORMATION WITH UNSTEADY FRACTIONAL SEDIMENT TRANSPORT TO ASSESS POOL-RIFFLE SELF-MAINTENANCE
ESMAEEL BAYAT, ELHAM VAHIDI, JOSE F. RODRIGUEZ, PATRICIA M. SACO, GUSTAVO A.M. DE ALMEIDA
- 1b-10c 01-02-0972 DETERMINATION OF GRAIN SIZE DISTRIBUTION ALONG AREAS OF SAND DEPOSITION: A CASE STUDY OF HIJI RIVER
ITANI DALE NDWAMBI, AKIHIRO KADOTA, OMAR MAHMOUD SELEEM
- 1b-10d 01-02-1454 COMPUTATION OF MORPHOLOGICAL CHANGE IN A CHANNEL BEND WITH NON-UNIFORM CURVATURE USING THE 2D SHALLOW WATER EQUATIONS
SEONMIN LEE, CHAEWOONG BAN, SUNG-UK CHOI
- 1b-10e 01-02-0443 SOIL EROSION IN A CHANGING LANDSCAPE OF PULAU PINANG, MALAYSIA
SUMAYYAH AIMI MOHD NAJIB, ZULLYADINI A. RAHAMAN
- 1b-10f 01-02-1160 CONVEX BANK VEGETATION SUCCESSION AND ITS EFFECT OF FORMING POINT BAR OF MEANDERING RIVER IN THE YELLOW RIVER SOURCE REGION
HAILI ZHU, XIASONG HU, ZHIWEI LI, YANTING LI

TECHNICAL SESSION 10B

THEME 4: COASTAL, ESTUARIES AND LAKES MANAGEMENT

Thursday, 17th August 2017

11.30 AM - 1 PM

ROOM: TDI-B

CHAIR: Prof. Pengzhi Lin

- 4b-1a 04-17-0025 SIMPLIFIED MODEL TO ESTIMATE IMPACT ON COASTAL WATER RESOURCES AND LOSS OF SHORELINE LAND DUE TO CLIMATE CHANGE AND SEA LEVEL RISE
ABI OGUNIMILUSI, GREGORY DE COSTA
- 4b-1b 04-17-0219 PHYSICAL HYDRAULIC MODELLING FOR THE DEVELOPMENT OF INNOVATIVE COASTAL PROTECTION STRUCTURE IN A 2-D WAVE FLUME
AHMAD HADI MOHAMED RASHIDI, MOHAMAD HIDAYAT JAMAL, MOHD RADZI ABD HAMID, SITI SALIHAN MOHD SENDEK
- 4b-1c 04-17-0472 THE IMPACT OF SEA LEVEL RISE ON TIDES AND STORM SURGES AROUND COAST OF TAIWAN
WEN-CHENG LIU, WEI-CHER HUANG, ZHE-YONG ZHOU
- 4b-1d 04-17-1091 INTEGRATED NUMERICAL MODELING OF WAVE-POROUS STRUCTURE BY FINITE VOLUME METHOD (FVM)
PARAN POURTEYMOURI, KOUROSH HEJAZI
- 4b-1e 04-17-1307 SPH MODELING OF TSUNAMI PROPAGATION AND HIGHEST RUN-UP: CASE STUDY – OKUSHIRI ISLAND TSUNAMI
AHMED M. ABDELRAZEK, ICHIRO KIMURA, YASUYUKI SHIMIZU
- 4b-1f 04-17-0663 A PRELIMINARY STUDY ON THE IMPACTS OF THE THREE GORGES PROJECT ON SALTWATER INTRUSION IN THE YANGTZE ESTUARY
XIN YAN, ZHAOHUA SUN, JUNQIANG XIA

TECHNICAL SESSION 10C

THEME 4: COASTAL, ESTUARIES AND LAKES MANAGEMENT

Thursday, 17th August 2017

11.30 AM - 1 PM

ROOM: DTHO

CHAIR: Prof. Stephen Monismith

- 4c-5a 04-18-0851 DEVELOPMENT OF THREE-DIMENSIONAL WATER QUALITY MODEL AND ITS APPLICATION TO A LONG-NARROW BAY
SONGLIN HAN, SHUXIU LIANG, ZHAOCHEN SUN
- 4c-5b 04-18-0347 INVESTIGATION OF WIND SPEED PROJECTIONS IN THE PERSIAN GULF USING DIFFERENT RESOURCES OF CMIP5 DATA
TAHEREH ALINEJHAD-TABRIZI, NASSER HADJIZADEH-ZAKER, BAHAREH KAMRANZAD
- 4c-5c 04-18-0165 A GEOCHEMICAL APPROACH TO VALIDATE HYDRODYNAMIC MODEL IN BOHAI BAY
YUANYI LI, HUAN FENG, DEKUI YUAN, LEI GUO, JIANHUA TAO
- 4c-5d 04-18-0173 MODELLING TSUNAMI FOR COASTAL RECLAMATION: INFLUENCE OF COASTLINE REFLECTIVITY, COASTAL CHANNEL GEOMETRY AND ONSHORE STORAGE
JANET YI YEE LEE, JUAN CARLOS SAVIOLI, JACOB HJELMAGER JENSEN, CHI WEI CHENG, CLAUS PEDERSEN
- 4c-5e 04-18-0765 APPROPRIATE WATER QUALITY ENVIRONMENT FOR PROTECTING THE COASTAL ECOSYSTEM IN THE ARIAKE SEA, JAPAN
TOSHINORI TABATA, WATARU HAYASHI, EMI OTSUBO, KAZUAKI HIRAMATSU, MASAYOSHI HARADA
- 4c-5f ADAPTIVE ENVIRONMENTAL MANAGEMENT INTO DREDGING PROJECTS
ARMAN MOKHTAR, JUAN CARLOS SAVIOLI, ANUAR YAHYA, SITI AISHAH HASHIM

TECHNICAL SESSION 10D

THEME 2: FLOOD MANAGEMENT

Thursday, 17th August 2017

11.30 AM - 1 PM

ROOM: Johor / Kedah

CHAIR: Ir. Hj. Mohd Fauzi Mohamad

- 2a-4a 02-06-0590 COMPARISON BETWEEN DETERMINISTIC AND UNCERTAINTY APPROACHES IN SIMULATING DESIGN FLOOD PROFILE ON THE JOHOR RIVER, MALAYSIA
ANUAR MD. ALI, GIULIANO DI BALDASSARRE, DIMITRI P. SOLOMATINE
- 2a-4b 02-06-0756 STUDY ON PARAMETERS ESTIMATION OF THE XAJ MODEL BASED ON UNDERLYING SURFACE CHARACTERISTICS
XING-NAN ZHANG, YUAN-HAO FANG, BO QU, LE-JUN MA, MIAO WU
- 2a-4c 02-06-1309 IDENTIFYING URBAN FLOODING VULNERABILITY USING MCDM APPROACH
GYUMIN LEE, JINWON CHOI, KYUNG SOO JUN
- 2a-4d 02-06-0850 DEVELOPMENT OF CLIMATE HAZARDS INDICATORS BASED ON DRIVERS–PRESSURES–STATE–IMPACTS–RESPONSES (DPSIR) FRAMEWORK: CASE STUDY IN CAMERON HIGHLANDS, MALAYSIA
KOK WENG TAN, PHUI NYING LOH
- 2a-4e 02-06-1031 METHODOLOGY FOR FLOOD RISK MAP DEVELOPMENT. APPLICATION TO VU GIA THU BON CATCHMENT, VIETNAM
NGOC DUONG VO, PHILIPPE GOURBESVILLE
- 2a-4f 02-06-1375 EVALUATION OF DIFFERENCE MESH SIZE FOR OVERLAND ROUTING MODEL
WAN HAZDY AZAD WAN ABDUL MAJID, LARIYAH MOHD SIDEK, HIDAYAH BASRI, SUHANI SAIDIN, ABD. JALIL HASSAN

TECHNICAL SESSION 10E

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Thursday, 17th August 2017

11.30 AM - 1 PM

ROOM: Kelantan

CHAIR: Dr. How Tion Puay

- 1c-4a 01-03-0728 LABORATORY EXPERIMENTS ON DENSITY CURRENTS FLOWING OVER ARRAYS OF ROUGHNESS ELEMENTS
REZA NASROLLAHOPOUR, MOHAMAD HIDAYAT JAMAL, ZULHILMI ISMAIL
- 1c-4b 01-03-0620 VENTING OF TURBIDITY CURRENTS: WHEN TO ACT?
SABINE CHAMOUN
- 1c-4c 01-03-1137 FIELD EXPERIMENT OF BEDLOAD TRANSPORT RATE MEASUREMENT AT SEDIMENT BYPASS TUNNEL
TAKAHIRO KOSHIBA, SAMEH A. KANTOUSH, TETSUYA SUMI
- 1c-4d 01-03-1215 ESTIMATION OF RESERVOIR SEDIMENTATION OF UKAI RESERVOIR USING SRS TECHNIQUE BETWEEN SPECIFIC WATER SURFACE ELEVATIONS
GANESH D. KALE, RITESHKUMAR H. SHOBHAVAT, AMIT KUMAR SHARMA
- 1c-4e 01-04-1172 USING THE TELEMAC 3D MODEL FOR ESTIMATING THE IMPACT OF BRIDGE CONSTRUCTION TO RIVER HYDRODYNAMIC REGIME
NGOC DUONG VO, QUANG BINH NGUYEN, PHILIPPE GOURBESVILLE
- 1c-4f 01-04-1354 PREDICTION OF COMPLEX PIER SCOUR USING GENE EXPRESSION PROGRAMMING
REZA MOHAMMADPOUR, AMINUDDIN AB. GHANI

TECHNICAL SESSION 10F

THEME 7: HYDROINFORMATICS / COMPUTATIONAL METHODS AND EXPERIMENTAL METHODS

Thursday, 17th August 2017

11.30 AM - 1 PM

ROOM: Melaka

CHAIR: Prof. Haegyun Lee

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| 7a-3a | 07-31-1308 | ROBUST PARAMETER SET SELECTION OF HYDRODYNAMIC MODEL FOR MULTI-SITES USING MINIMAX REGRET APPROACH
<i>LI LI, EUN-SUNG CHUNG, KYUNG SOO JUN</i> |
| 7a-3b | 07-31-0316 | CFD MODELLING OF BREAKING AND UNDULAR TIDAL BORES WITH PHYSICAL VALIDATION
<i>XINQIAN LENG, PIERRE LUBIN, HUBERT CHANSON</i> |
| 7a-3c | 07-31-1372 | PARALLEL COMPUTATION OF A DAM-BREAK FLOW MODEL USING OPENACC AND OPENMP APPLICATIONS
<i>SHANGHONG ZHANG, WENDA LI, ZHU JING</i> |
| 7a-3d | 07-31-0894 | A NODAL DISCONTINUOUS GALERKIN MODEL WITH QUADRILATERAL MESH FOR 2D SHALLOW WATER EQUATIONS
<i>LONGXIANG LI, QINGHE ZHANG</i> |
| 7a-3e | 07-33-0927 | NUMERICAL SIMULATION FOR TYPHOON AND WAVE OF QIONGZHOU STRAIT
<i>YANAN XU, HANBAO CHEN, CIHENG ZHANG, WENJUN SHEN</i> |
| 7a-3f | 07-33-0482 | INVESTIGATION OF UNCERTAINTY EFFECTS ON HYDRAULIC PERFORMANCE OF WATER DISTRIBUTION NETWORKS USING THE FUZZY SETS THEORY
<i>ADELL MORADI SABZKOUHI, ALI HAGHIGHI, AMIN MINAEI</i> |

TECHNICAL SESSION 10G

THEME 4: COASTAL, ESTUARIES AND LAKES MANAGEMENT

Thursday, 17th August 2017

11.30 AM - 1 PM

ROOM: Negeri Sembilan

CHAIR: Prof. Ioan Nistor

- 4e-3a 04-20-1428 THREE-DIMENSIONAL SCOUR AROUND EMBEDDED SUBMARINE PIPELINE UNDER OBLIQUE WAVES
YONGZHOU CHENG, DONGWEI YANG, WENSEN WANG, DIANQI LI
- 4e-3b 04-20-1085 TECHNOLOGY OF ICE PIER CONSTRUCTION: STATE-OF-THE-ART AND FUTURE
HERY RUSTANTO
- 4e-3c 04-20-0208 WAVE RUN-UP FORECASTING MODEL USING ARTIFICIAL NEURAL NETWORK BETWEEN OFFSHORE WAVE DATA AND WAVE RUN-UP SCALE
SEOK-BONG LEE, KYUNG-DUCK SUH
- 4e-3d 04-20-1155 HYDRO-ENVIRONMENTAL MODELLING OF A SEVERN BARRAGE WITH VERY LOW HEAD TURBINES
REZA AHMADIAN, ROGER FALCONER, BETTINA BOCKELMANN-EVANS
- 4e-3e 04-20-1395 HYDRAULIC EFFICIENCY OF A FIXED FREE SURFACE H-TYPE BREAKWATER SUBJECTED TO REGULAR WAVES
HEE MIN TEH, SYED SHUJA UL HASSAN, THINAGRAN SILAVARAJ
- 4e-3f 04-20-1346 THE EFFECT OF SUBMERGED BREAKWATER SHAPE AND SIZE ON WAVE ENERGY DISSIPATION
FATEMEH HAJIVALIE

TECHNICAL SESSION 10H

THEME 3: ENVIRONMENTAL HYDRAULICS AND INDUSTRIAL FLOWS

Thursday, 17th August 2017

11.30 AM - 1 PM

ROOM: Pahang

CHAIR: Dato' Ir. Haji Mohd. Azmi Ismail

- 3d-1a 03-14-0392 CHARACTERISTICS OF THE SHOCK WAVES AND WATER WING IN SLIT-TYPE ENERGY DISSIPATERS
HAN HU, GUOBING HUANG, WEI YANG
- 3d-1b 03-14-0468 SUPPRESSION OF VORTEX INDUCED VIBRATION USING VORTEX GENERATORS IN 2D COMPUTATIONAL FLUID DYNAMICS
MOHD AZIM SAFWAN ABDUL WAHAB, SITI FATIN MOHD RAZALI
- 3d-1c 03-12-1568 THE INFLUENCE OF WATERWAY REGULATION ON THE RARE FISHES IN UPPER REACHES OF YANGTZE RIVER AND PROTECTION STRATEGY
XIANBING ZHANG, WEIWEI YU, SISI QUE, DUOYIN WANG, WENJIE LI, WEI YANG, CHENPENG SONG, HAIHONG JIANG
- 3d-1d 03-14-0780 HEAD LOSSES AND INFLUENCE LENGTH OF SHARP-EDGED AND ROUNDED ORIFICES UNDER STEADY FLOW CONDITIONS
NICOLAS ADAM, GIOVANNI DE CESARE, ANTON J. SCHLEISS
- 3d-1e 03-13-0124 EXPERIMENTAL STUDY OF THE EFFECTS OF A HORIZONTAL AXIS TIDAL STREAM TURBINE ON HYDRODYNAMIC PROCESSES
YALING CHEN, BINLIANG LIN, JIE LIN
- 3d-1f 03-13-0450 RECENT PROGRESS ON THE SUSTAINABLE ENERGY SYSTEMS IN SMART CITIES
HUI QIAN YOONG, LAI KUAN LEE, NOR AZAZI ZAKARIA, KENG YUEN FOO

TECHNICAL SESSION 10I

THEME 3: ENVIRONMENTAL HYDRAULICS AND INDUSTRIAL FLOWS

Thursday, 17th August 2017

11.30 AM - 1 PM

ROOM: Perak

CHAIR: Dr. Reza Ahmadian

- 3e-3a 03-15-0778 ANALYSIS OF THE CAVITATING FLOWS IN A LOW SPECIFIC SPEED AXIAL PUMP
ZHE WANG, RENFANG HUANG, XIANWU LUO, JIAJIAN ZHOU, LIN WANG
- 3e-3b 03-15-1589 PERFORMANCE CHARACTERISTIC STUDY OF ENERGY-RECOVERY PELTON TURBINE WITH DIFFERENT SIZES OF CASING
YOUNG SOO KIM, JOO HOON PARK, YOUHWAN SHIN, JIN TAEK CHUNG
- 3e-3c 03-15-0913 STUDY ON INTERNAL FLOW OF REVERSIBLE BULB TUBULAR PUMP WITH SYMMETRIC AEROFOIL
YAN JIN, HONGCHENG CHEN, JUNXIN WU, CHAO LIU
- 3e-3d 03-15-1434 SIMULATION OF STEADY AND UNSTEADY FLOWS THROUGH A SMALL HORIZONTAL FRANCIS TURBINE
AHMED LAOUARI, ADEL GHENAIET
- 3e-3e 03-15-0832 INTERNAL FLOW ANALYSIS AND DESIGN OPTIMIZATION FOR A LOW SPECIFIC SPEED AXIAL PUMP
DANDAN YANG, ZHE WANG, XIANWU LUO, JIAJIAN ZHOU, HONGYUAN XU
- 3e-3f 03-15-1229 CHARACTERISTICS OF THE FREE-SURFACE JET EMANATING DOWNSTREAM OF VORTEX INTAKE STRUCTURES: ANALYTICAL AND NUMERICAL APPROACHES
SEAN MULLIGAN, EOGHAN CLIFFORD

SPECIAL SESSION 3B

TOPIC: GREEN INFRA AS DISASTER RISK REDUCTION MEASURES IN THE ASIAN-PACIFIC REGION

Thursday, 17th August 2017

11.30 AM - 1 PM

ROOM: Perlis

CHAIR: Dr. Mahito Kamada

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| 8c-2a | 08-38-1498 | GREEN INFRA FOR NATURAL DISASTER RISK REDUCTION REVIVED FROM OLD WISDOM OF TRADITIONAL ECOLOGICAL PRACTICES IN KOREA – FOCUSED ON RESTORATION OF ECOLOGICAL FUNCTIONS OF RIVER
<i>HYOSEOP WOO, JIN CHUL JOO, HONG-GU YEO, JONG-MIN OH</i> |
| 8c-2b | 08-38-1501 | PADDY FIELDS AS GREEN INFRASTRUCTURE
<i>MAHITO KAMADA, YASUNORI MUTO, YOTA IMAI</i> |
| 8c-2c | 08-38-1529 | FLOOD CONTROL MANAGEMENT IN STEEP RIVERS USING DIKES
<i>OMAR SELEEM, AKIHIRO KADOTA, ITANI DALE NDWAMBI</i> |
| 8c-2d | 08-38-1534 | RESEARCH ON THE HYDROLOGICAL PROCESSES OF LID-TYPE ROAD: THE CASE OF SHIYANG ROAD
<i>YANFEN GENG, JIANDONG MAO, ZHAOWEI WANG</i> |
| 8c-2e | 08-38-1528 | DISASTER REDUCTION CHARACTERISTICS BY A LAGOON AT THE GREAT EAST JAPAN TSUNAMI
<i>YUTA AKASAKI, YOSHIYA IGARASHI, NORIO TANAKA</i> |

SPECIAL SESSION 5B

TOPIC: FUNCTION OF GOVERNANCE TO RIVER RESTORATION UNDER THE CLIMATE CHANGE

Thursday, 17th August 2017

11.30 AM - 1 PM

ROOM: Pulau Pinang

CHAIR: Prof. Suk Hwan Jang

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| 8e-2a | 08-40-1579 | RUNOFF ANALYSIS CONSIDERING THE UNCERTAINTY OF RAINFALL INTENSITY BASED ON STOCHASTIC DIFFERENTIAL EQUATION
<i>DAIWEI CHENG, TADASHI YAMADA</i> |
| 8e-2b | 08-40-1572 | HEIGHT DIFFERENCE FROM REGULAR WATER LEVEL AS INDICATOR FORECASTING VEGETATION AFTER CHANNEL EXCAVATION
<i>DAISUKE NAITO, KENICHI KANENAWA, KAZUHISA FUKUNAGA, FUMIKO IMAMURA, YUICHI KAYABA</i> |

TECHNICAL SESSION 11A

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Thursday, 17th August 2017

2.30 PM - 4 PM

ROOM:TDI-A

CHAIR: Prof. Marko Shaohua Hsu

- 1b-11a 01-02-0925 INVESTIGATING THE IMPACT OF THE HEAVY RAINFALL OF 1999 AND LAND COVER CHANGES ON SOIL LOSS AND SEDIMENTATION OF FRASER HILL CATCHMENT IN MALAYSIA USING REMOTE SENSING AND GIS
ZHOOBIN RAHIMI, FARIDAH OTHMAN
- 1b-11b 01-02-0920 MATHEMATICAL MODEL FOR FLOW AND SUSPENDED SEDIMENT TRANSPORT WITH BIOFILMS
HAOJIE LAI, GUOJIAN HE, WEI CHENG, LEI HUANG, HONGWEI FANG
- 1b-11c 01-02-1152 SUSPENDED SEDIMENT FLOW CHARACTERISTICS IN NON-UNIFORM OPEN CHANNEL
BAMBANG AGUS KIRONOTO, BAMBANG YULISTIYANTO, BUDI WIGNYOSUKARTO, BAMBANG TRIATMODJO, ERWIN NUR AFIATO, RAHMAT BANGUN GIARTO
- 1b-11d 01-02-1139 EXPERIMENTAL EVALUATION FOR EFFECT OF SABO FACILITIES ON BED VARIATIONS IN DOWNSTREAM REACH
HARUKI WATABE, KAZUHIKO KAITSUKA, MINORU SUGIYAMA, HIROHISA MURAMATSU, TAKAHIKO NAGAYAMA, HIROSHI OGAWA, TSUTOMU MIIKE, AYUMI MIYAMOTO, YUUCHI YAMADA, TAKAHIRO ITOH, TAKAHISA MIZUYAMA
- 1b-11e 01-02-0905 DETERMINATION OF OPTIMUM RACK ANGLE OF TYROLEAN TYPE INTAKES TO INCREASE WATER CAPTURE EFFICIENCY
MUSTAFA GOGUS, KUTAY YILMAZ, ABIDDIN BERHAN MELEK
- 1b-11f 01-02-0988 EXPERIMENTAL INVESTIGATION OF THE INTERACTION BETWEEN FINE HEAVY PARTICLES AND ORGANIZED TURBULENT FLOWS IN OPEN CHANNEL
YI LU, KIT MING LAM

TECHNICAL SESSION 11B

THEME 7: HYDROINFORMATICS / COMPUTATIONAL METHODS AND EXPERIMENTAL METHODS

Thursday, 17th August 2017

2.30 PM - 4 PM

ROOM: TDI-B

CHAIR: Dr. Jae-Young Ahn

- 7e-1a 07-35-0683 EXPERIMENTAL AIRBORNE ADVANCE RESEARCH LIDAR (EAARL) B: ACCURACY AND APPLICATION FOR AQUATIC HABITAT MAPPING
DANIELE TONINA, JAMES A. MCKEAN, ROHAN BENJANKAR, WAYNE WRIGHT, JAIME G. GOODE, QIUWEN CHEN, WILLIAM J. REEDER, JODY WHITE
- 7e-1b 07-35-0742 EFFICIENT HANDLING OF BIG DATA FOR TOPOBATHYMETRIC APPLICATIONS: EXAMPLES FROM LAKE CONSTANCE AND BAVARIA IN EUROPE
FRANK STEINBACHER, WERNER BENGER, RAMONA BARAN, WOLFGANG DOBLER, MARKUS AUFLEGER
- 7e-1c 07-35-1265 ANNUAL VARIATION OF FLOOD RISKS IN THE 109 PRIMARY WATER SYSTEMS IN JAPAN
TOMOYA KATAOKA, YASUO NIHEI
- 7e-1d 07-35-0928 OPEN DATA FROM PHYSICAL MODEL TESTS: LESSONS LEARNED FROM RELATED INITIATIVES
JAMES SUTHERLAND, CHRIS AWRE, GONZALO MALVAREZ, ANNA VAN GILS, QUILLON HARPHAM
- 7e-1e 07-35-0723 PERFORMANCE OF SATELLITE PRECIPITATION PRODUCTS FOR 2014/2015 EXTREME FLOOD EVENTS
WAN ZURINA WAN JAAFAR, EUGENE ZHEN XIANG SOO, SAI HIN LAI, TANVIR ISLAM, PRASHANT K. SRIVASTAVA
- 7e-1f 07-35-0671 USING UNMANNED AERIAL VEHICLES TO INSPECT SILTATION IN IRRIGATION CANALS
ABUBAKR MUHAMMAD, ALI AHMAD, SAAD HASSAN, SYED M ABBAS, TALHA MANZOOR, KARSTEN BERNS

TECHNICAL SESSION 11C

THEME 7: HYDROINFORMATICS / COMPUTATIONAL METHODS AND EXPERIMENTAL METHODS

Thursday, 17th August 2017

2.30 PM - 4 PM

ROOM: DTHO

CHAIR: Prof. Yangwen Jia

- 7d-4a 07-34-1300 USING REMOTELY SENSED DATA TO ESTIMATE RIVER CHARACTERISTICS, INCLUDING WATER-SURFACE VELOCITY AND DISCHARGE
JONATHAN M. NELSON, PAUL J. KINZEL, CARL J. LEGLEITER, RICHARD R. MCDONALD, BRANDON T. OVERSTREET, JEFFREY S. CONAWAY
- 7d-4b 07-34-1569 RAINFALL SIMULATOR AS A NONPOINT SOURCE POLLUTION RESEARCH TOOL ON TROPICAL URBAN SEALED SURFACES
MAHADI LAWAN YAKUBU, ZULKIFLI YUSOP, MUTTAQA UBA ZANGO, ABUBAKAR ABDULKARIM
- 7d-4c 07-34-0715 MEASUREMENT OF TWO-DIMENSIONAL WATER SURFACE PROFILE OF ROUGH WALL TURBULENCE BY SAMPLING MOIRE METHOD
KOJIRO TANI, ICHIRO FUJITA, HIDE TO YOSHIMURA
- 7d-4d 07-34-0610 LATERAL VARIATION OF TURBULENCE IN DEVELOPING NARROW OPEN CHANNEL FLOW
MINAKSHEE MAHANANDA, PRASHANTH REDDY HANMAIAHGARI
- 7d-4e 07-34-1161 DEVELOPMENT OF EVALUATION METHOD OF UPLIFT FORCES ON THE WAVE DISSIPATING CAISSON BY USING NUMERICAL SIMULATION
HIROMU IGARASHI, KAZUKI NAMIKI, TARO ARIKAWA
- 7d-4f 07-34-0360 HIGH SPATIO-TEMPORAL MEASUREMENTS OF EROSION RATES OF COHESIVE SEDIMENTS USING PHOTOGRAMMETRIC METHODS
MARKUS NOACK, GERHARD SCHMID, ALINE SCHAEFER RODRIGUES SILVA, SILKE WIEPRECHT

TECHNICAL SESSION 11D

THEME 2: FLOOD MANAGEMENT

Thursday, 17th August 2017

2.30 PM - 4 PM

ROOM: Johor / Kedah

CHAIR: Prof. Marian Muste

- 2a-5a 02-06-1086 NUMERICAL SIMULATION OF FLOOD INUNDATION AND SEDIMENTATION CONSIDERING THE EFFECTS OF PADDY FIELDS
KENJI KAWAIKE, MASAKAZU HASHIMOTO, HAJIME NAKAGAWA
- 2a-5b 02-06-1232 SIMPLIFIED PHYSICALLY-BASED MODELING OF LEVEE BREACH ON SUTTER BYPASS CHANNEL
WEIMING WU
- 2a-5c 02-06-1259 ISSUES CONCERNING SPATIAL DATA COLLECTION AND PROCESSING FOR URBAN FLOOD MODELLING
AHMAD FIKRI ABDULLAH, ZORAN VOJINOVIC, VORAWIT MEESUK
- 2a-5d 02-06-1194 ADAPTING TO CLIMATE CHANGE THROUGH HOLISTIC RISK ASSESSMENT - THE PEARL APPROACH
ZORAN VOJINOVIC, ARLEX SANCHEZ, ALIDA ALVES, YARED ABEBE, NEILER MEDINA, OLE MARK, NINA STO. DOMINGO, SLOBODAN DJORDJEVIĆ, ALBERT CHEN, KATYA PYATKOVA, MARK PELLING, ARABELLA FRASER, JOERN BIRKMANN, LINDA SORG, JAUME AMOROS, NATASA MANOJLOVIC, PETER FROHLE, AMINEH GHORBANI, IGOR NIKOLIC, DONG-JIING DOONG
- 2a-5e 02-06-0457 EVALUATION ON THE PHYSICO-CHEMICAL AND BACTERIOLOGICAL CONTAMINATION OF THE FLOOD WATER AFTER THE HEAVILY FLOOD INCIDENCE AT THE PAHANG RIVER, MALAYSIA
KAH YEE LIM, NOR AZAZI ZAKARIA, KENG YUEN FOO
- 2a-5f 02-06-1171 NUMERICAL ANALYSIS OF INUNDATION FLOW DUE TO HEAVY RAINFALL IN THE SHIRAKAWA RIVER ON JULY, 2012
XIANG CHEN, RYUICHI HIRAKAWA, TERUNORI OHMOTO

TECHNICAL SESSION 11E

THEME 7: HYDROINFORMATICS / COMPUTATIONAL METHODS AND EXPERIMENTAL METHODS

Thursday, 17th August 2017

2.30 PM - 4 PM

ROOM: Kelantan

CHAIR: Dr. Shinichiro Onda

- 7b-3a 07-32-1586 A PIPELINE OIL LEAKAGE MODEL FOR OILFIELDS IN SHALLOW WATER
ZHIGANG LI, MEIRONG JIANG, JIANXING YU, KONGZHONG LIU, YING JIANG, CHANGTAO WANG
- 7b-3b 07-32-0516 NUMERICAL SIMULATION OF SEDIMENT TRANSPORT AND SUSPENDED SOLID DISTRIBUTION DUE TO THE DAMAGE OF RECLAMATION WALL IN MINAMATA BAY
EDISTRI NUR FATHYA, SHINICHIRO YANO, AKITO MATSUYAMA, AKIHIDE TADA
- 7b-3c 07-32-0213 PRELIMINARY ENVIRONMENTAL PROFILE STUDY OF INANAM RIVER CATCHMENT, SABAH
KOK HOU KU, TANIA GOLINGI, CHING SIN LIM, YABI YANGKAT, VITALIS MODUYING
- 7b-3d 07-32-0147 MODELING AND MEASURING OF INTERFACES IN SEWER SYSTEMS
KATHARINA TEUBER, MARIA GRÜNEBERGER, DANEISH DESPOT, DIETMAR STEPHAN, MATTHIAS BARJENBRUCH, REINHARD HINKELMANN
- 7b-3e 07-32-0090 SECOND ORDER STATISTICS OF A JET IN AMBIENT TURBULENCE
ADRIAN C.H. LAI, PENG LIU, ADRIA W.K. LAW, E. ERIC ADAMS
- 7b-3f 07-34-1605 STUDY OF PRESSURE DISTRIBUTION AND VOLUME FRACTION OF AIR AND WATER ACROSS THE CHANNELS OF OXIDATION DITCH
NOOR AIDA SAAD, HAMIDI ABDUL AZIZ, MOHD ZULKIFLY ABDULLAH, MOHAMED ZUBAIR

TECHNICAL SESSION 11F

THEME 2: FLOOD MANAGEMENT

Thursday, 17th August 2017

2.30 PM - 4 PM

ROOM: Melaka

CHAIR: Assoc. Prof. Stefan Achleitner

- 2b-3a 02-07-0032 OGEE WEIR CREST DEFINITION: HISTORICAL ADVANCE
WILLI H. HAGER, OSCAR CASTRO-ORGAZ
- 2b-3b 02-07-1146 AN OPEN-SOURCE MODELLING AND DATA SYSTEM FOR NEAR
REAL-TIME FLOOD FORECASTING
*QIUHUA LIANG, YUN XING, XIADONG MING, XILIN XIA, HUILI
CHEN, XUE TONG, GANG WANG, HAIBO YANG*
- 2b-3c 02-07-0075 MODELLING THE 1910 FLOOD IN THE BESANCON CENTRE
ANDRÉ PAQUIER, ANTOINE CHIAVERINI
- 2b-3d 02-07-0452 URBAN FLOOD MODELLING – PROCESS OR REGRESSION?
JAMES E. BALL
- 2b-3e 02-07-0412 FLOOD SIMULATION AND RISK ANALYSIS BASED ON SEMANTIC
3D CITY MODELS COUPLED WITH HYDRO NUMERICAL MODELS
(FLORICIMO)
*TORSTEN HEYER, HELLEN HAMMOUDI, ROBERTO TATIS MUVDI,
STEFAN TROMETER, ARNE SCHILLING, JUERGEN STAMM*
- 2b-3f 02-09-0992 A MODEL OF SELECTING OPTIMAL WALKING ROUTES FOR
EVACUATION IN FLOOD-PRONE AREAS BASED ON MECHANICAL
PROCESS
PENG GUO, JUNQIANG XIA, ROGER A. FALCONER, QIAN CHEN

TECHNICAL SESSION 11G

THEME 4: COASTAL, ESTUARIES AND LAKES MANAGEMENT

Thursday, 17th August 2017

2.30 PM - 4 PM

ROOM: Negeri Sembilan

CHAIR: Ir. Mohd Radzi Abd Hamid

- 4e-4a 04-20-1048 DYNAMIC RESPONSE OF A VESSEL IN FIXED PIER AND FLOATING PIER
SITHALAKSHMI SHANMUGAM, RAHUL DEV RAJU, PANNEER SELVAM RAJAMANICKAM, SUNDARAVADIVELU RANGANATHAN
- 4e-4b 04-20-0865 WAVE SCATTERING FROM SUBMERGED T-TYPE BREAKWATER
GUOYU WANG, XIN GUO, BING REN
- 4e-4c 04-20-1226 GEOMETRY AND ALIGNMENT OPTIMIZATION OF BREAKWATERS USING A GENETIC ALGORITHM
MAHSA JAHANGARD, KOUROSH HEJAZI
- 4e-4d 04-20-1349 SHORE PROTECTION USING DOUBLE PLATE VERTICAL POROUS BREAKWATER
LAMANTO T. SOMERVELL, SANTOSH G. THAMPI, AIKOT PALLIKKARA SHASHIKALA
- 4e-4e 04-20-0632 STUDY ON MAINTENANCE DREDGING SCHEME FOR CHANNEL WITH A NUMERICAL MODEL
XINFENG ZHANG, SULAN LU, YU JIANG, YAJU WU

TECHNICAL SESSION 11H

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Thursday, 17th August 2017

2.30 PM - 4 PM

ROOM: Pahang

CHAIR: Prof. Yonghui Zhu

- 1a-5a 01-01-0299 SWITCHING OF BIFURCATION TO SINGLE CHANNEL: CASE OF A SAND BED BRAIDED RIVER
SHAMPA, YUJI HASEGAWA, HAJIME NAKAGAWA, HIROSHI TAKEBAYASHI, KENJI KAWAIKE
- 1a-5b 01-01-1566 STUDY ON HYDRAULIC CHARACTERISTICS OF NON - UNIFORM FLOW IN THREE GORGES RESERVOIR
PENG ZHANG, SHENGFA YANG, JIANG HU, MI TIAN, SHUAISHUAI ZHANG, SICHEN TONG, XUELIAN LIU, YING SHEN, TAO WANG
- 1a-5c 01-02-0687 RESEARCH ON SYNERGISTIC EVOLUTION BETWEEN THE RIVER CHANNEL AND FLOODPLAIN IN THE LOWER YELLOW RIVER
QIUSHI LUO, MOXI WU, ZHANWEI WAN, YU QIAN
- 1a-5d 01-02-1388 TEMPORAL CHANGE STUDY ON TAPI RIVER MEANDER USING REMOTE SENSING AND GIS
KEYUR J. PRAJAPATI, SAHITA I. WAIKHOM, SANJAY M. YADAV
- 1a-5e 01-02-0904 VARIATION IN BANKFULL GEOMETRY IN A GRAVEL-TO-SAND BED REACH UNDERGOING CHANNEL DEGRADATION
MEIRONG ZHOU, JUNQIANG XIA, SHANSHAN DENG, FENFEN LIN
- 1a-5f 01-02-0293 HISTORICAL EVOLUTION OF CHANNEL SHIFTING AND ITS RESPONSE TO TRADITIONAL BANK PROTECTION WORK ALONG A REACH OF THE SAND BED BRAIDED AT JAMUNA/BRAHMAPUTRA
MD. MARUF DUSTEGIR, MD. RASHEDUL ISLAM, MD. MUNSUR RAHMAN, ANISUL HAQUE, REZAUL KARIM, GAZI RIASAT AMIN, LUTFOR RAHMAN, MOTAHAR HOSSAIN, HAJIME NAKAGAWA, YUJI HASEGAWA

TECHNICAL SESSION 11I

THEME 5: URBAN WATER MANAGEMENT

Thursday, 17th August 2017

2.30 PM - 4 PM

ROOM: Perak

CHAIR: Dr. Hui Weng Goh

- 5a-3a 05-21-1112 SIMULATION OF HYDROLOGIC BEHAVIOR OF LOWER TAPI BASIN USING HEC-HMS AND GEOSPATIAL TECHNOLOGY
PAWAN BHAVSAR, JAYANTILAL N. PATEL
- 5a-3b 05-21-0306 A COARSE GRID APPROACH-BASED MODEL CHAIN FOR FAST RAINFALL-RUNOFF PREDICTIONS IN NATURAL AND URBAN AREAS
ILHAN ÖZGEN
- 5a-3c 05-21-0994 A GPU BASED NUMERICAL MODEL EVALUATING SPONGE EFFECTS ON URBAN FLOOD FOR SPONGE CITY CONSTRUCTION IN CHINA
RUN WANG, JINGMING HOU, ZHANBIN LI, JIAN ZHOU, QUAN QUAN, GUODONG LI, BINGQIAN WEI, WEN WANG, YUE MA
- 5a-3d 05-21-0773 INTEGRATED ONE-DIMENSIONAL AND TWO-DIMENSIONAL FLOOD MODELLING FOR THE URBAN DRAINAGE STUDY ALONG JALAN SIBIYU, BINTULU SARAWAK
JUDY JOO KHENG KUEH, SIN POH LIM
- 5a-3e 05-21-1451 ESTIMATION OF ACTUAL EVAPOTRANSPIRATION USING GIS AND REMOTE SENSING (CASE STUDY: TAPI RIVER CATCHMENT, INDIA)
KALPESH BORSE, PRAVEEN RATHOD, VIVEK L. MANEKAR, PRASIT G. AGNIHOTRI
- 5a-3f 05-21-0882 COMPARISON AND ANALYSIS OF DIFFERENT METHODS FOR THE PEAK DISCHARGE ESTIMATION FROM DRAINAGE BASINS RUNOFF IN SAUDI ARABIA
MATTEO VENTURA, FABRIZIO CABAS, GIOVANNI COSTANTINI, CHIARA CESALI

SPECIAL SESSION 3C

TOPIC: GREEN INFRA AS DISASTER RISK REDUCTION MEASURES IN THE ASIAN-PACIFIC REGION

Thursday, 17th August 2017

2.30 PM - 4 PM

ROOM: Perlis

CHAIR: Dr. Norio Tanaka

- 8c-3a 08-38-1490 RETARDING EFFECT EVALUATION OF PADDY FIELDS AND THEIR LAND-USE CHANGE
MUTO YASUNORI, MURATA YUKI, MIYOSHI MANABU, TAMURA TAKAO
- 8c-3b 08-38-1497 A METHOD TO ASSESS GREEN INFRASTRUCTURE COSTS AND BENEFITS FOR URBAN HEAT ISLAND REDUCTION
KYEON J. WOO, SANG R. KIM, JIN Y. SHIN, JAE S. PARK, WOO B. BAE, YUN M. PARK, YONG G. KIM
- 8c-3c 08-38-1597 HYDRAULIC PERFORMANCE OF SUBSURFACE DRAINAGE MODULE
MUHAMMAD MUJAHID MUHAMMAD, KHAMARUZAMAN WAN YUSOF, MUHAMMAD RAZA UL MUSTAFA, NOR AZAZI ZAKARIA, AMINUDDIN AB. GHANI
- 8c-3d 08-38-1521 ADVANCED RESEARCH ON KOREA GREEN INFRASTRUCTURE AND LOW IMPACT DEVELOPMENT CENTER
HYUN-SUK SHIN, JONGBIN PARK, JAEHYUK LEE, JAEHUN AHN, SOONCHUL KWON
- 8c-3e 08-38-1519 THE CONCEPT OF DIRECTLY CONNECTED IMPERVIOUS AREAS AND ITS IMPLICATION ON MITIGATION OF PEAK FLOWS IN URBAN CATCHMENTS
YONGWON SEO, JUNSHIK HWANG, YOUJEONG KWON

TECHNICAL SESSION 11J

THEME 4: COASTAL, ESTUARIES AND LAKES MANAGEMENT

Thursday, 17th August 2017

2.30 PM - 4 PM

ROOM: Pulau Pinang

CHAIR: Prof. Hitoshi Tanaka

- 4a-2a 04-16-1182 LONG TERM SHORELINE CHANGE AND FUTURE FORECAST DUE TO SEA LEVEL RISE IN SOUTH TAINAN COAST
WEN-JUINN CHEN, JOU-HAN WANG
- 4a-2b 04-16-0114 NUMERICAL INVESTIGATION OF NONLINEAR M4 OVERRIDE ON THE BACKWATER HYDRODYNAMICS IN TIDAL RIVERS
HUAYANG CAI, PENG YAO, SUYING OU, QINGSHU YANG
- 4a-2c 04-16-0909 THE SIGNIFICANCE OF HYDRODYNAMIC MODELLING FOR MANGROVE GROWTH AND SURVIVAL IN MALAYSIA
IKMALZATUL ABDULLAH, NOR ASLINDA AWANG, ANIZAWATI AHMAD, SHIMATUN JUMANI IBRAHIM
- 4a-2d 04-16-0584 MONITORING OF CONTINUOUS TIDAL CURRENT PATTERN IN ASYMMETRIC BIFURCATION CHANNEL NETWORK USING ACOUSTIC TOMOGRAPHY METHOD AND NUMERICAL MODELING
MOCHAMMAD MEDDY DANIAL, KIYOSI KAWANISI, MASOUD BAHREINMOTLAGH, MOHAMAD BASEL AL-SAWAF, JUNYA KAGAMI
- 4a-2e 04-16-1108 HYDRODYNAMIC MODELING OF SEA OF OMAN
PRERANA CHITRAKAR, AHMAD SANA, MAHAD BAAWAIN
- 4a-2f 04-16-1585 ICE FORMATION AND FLOW REGIMES IN REGULATED RIVERS, CENTRAL IDAHO, USA
ANDREW W. TRANMER, PETER GOODWIN, MATTHEW G. TIEDEMANN, DANIELE TONINA, ROBERT ETTEMA

TECHNICAL SESSION 12A

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Friday, 18th August 2017

9.30 AM - 11 AM

ROOM: TDI-A

CHAIR: Prof. Hajime Nakagawa

- 1b-12a 01-02-1344 A ROBUST TWO-DIMENSIONAL COUPLED FLOW-SEDIMENT TRANSPORT MODEL BASED ON AN IMPROVED UNSTRUCTURED FINITE VOLUME ALGORITHM
GANGFENG WU, KEFENG ZHANG
- 1b-12b 01-02-1385 PROBLEMS IN SEDIMENT TRANSPORT FORMULAS AND ITS IMPROVEMENT
SHU-QING YANG
- 1b-12c 01-02-1208 EXPERIMENTAL STUDY OF SEDIMENT TRANSPORT OVER A NON-ERODIBLE ROUGH BED
DAVID RAUS, FREDERIC MOULIN, OLIVIER EIFF
- 1b-12d 01-02-1336 LINEAR STABILITY ANALYSIS ON BED CONFIGURATION OF SOFT ROCK PARTIALLY COVERED WITH SEDIMENT
KEIGO IMORI, YASUHARU WATANEBE
- 1b-12e 01-02-1218 A 1D NUMERICAL MODEL FOR AGGRADING CHANNEL OF NONUNIFORM SEDIMENT BED
BHOOMI R. ANDHARIA, PREM LAL PATEL, VIVEK L. MANEKAR, PRAKASH D. POREY
- 1b-12f 01-02-1602 RESEARCH ON THE METHOD OF RECOGNITION AND EXTRACTION FOR AUDIO SIGNAL OF THE GRAVEL MOVEMENT IN NATURAL RIVERS
MI TIAN, SHENG FA YANG, QI GUO

TECHNICAL SESSION 12B

THEME 1: RIVER AND SEDIMENT MANAGEMENT

Friday, 18th August 2017

9.30 AM - 11 AM

ROOM: TDI-B

CHAIR: Prof. Wenhong Dai

- 1d-10a 01-04-0985 AIR-WATER FLOW PROPERTIES IN HYDRAULIC JUMPS ON A POSITIVE SLOPE
LAURA MONTANO, STEFAN FELDER
- 1d-10b 01-04-1178 FURTHER STUDIES ON OPTIMAL HYDRAULIC SECTION OF STEADY UNIFORM FLOW IN RECTANGULAR OPEN CHANNELS
MIN FAN, YUANLE ZHU, YAOZU JIANG, BOLE JIAO
- 1d-10c 01-04-1228 EFFECT OF FLOW INTENSITY ON BRIDGE PIER SCOUR GEOMETRY FOR LOW BLOCKAGE RATIOS
PRISCILLA WILLIAMS, RAM BALACHANDAR, TIRUPATI BOLISETTI
- 1d-10d 01-04-1391 OPTIMIZING DISCHARGE COEFFICIENTS OF SPILLWAYS LABYRINTH IMPLEMENTING TWO HYDRODYNAMIC FORMS DEVICES IN THE UPSTREAM APEX
DELGADO GUSTAVO, MONTENEGRO JULIO, ERICES FABIAN
- 1d-10e 01-04-1072 MULTI-INDEX EVALUATION ON RIVER HEALTH ASSESSMENT: IWE METHOD
HUIDONG SU, TIAN TIAN JIN, SHI FENG, JUNQIANG LIN
- 1d-10f 01-04-1166 PERFORMANCE EVALUATION OF NUMERICAL SIMULATION FOR TURBULENCE CHARACTERISTICS AROUND CIRCULAR BRIDGE PIER
PRAVEEN RATHOD, VIVEK L. MANEKAR

TECHNICAL SESSION 12C

THEME 3: ENVIRONMENTAL HYDRAULICS AND INDUSTRIAL FLOWS

Friday, 18th August 2017

9.30 AM - 11 AM

ROOM: DTHO

CHAIR: Prof. Markus Aufleger

- 3a-9a 03-11-1439 HYDRODYNAMIC INFLUENCE OF HEAD-HORN STRUCTURE OF CAVE FISH SINOCYCLOCHEILUS TILEIHORNES ON FLOW FIELD
FAKAI LEI, MENGZHEN XU, ZIQING JI, ZHAOYIN WANG, MICHAEL ANDREW BISSET
- 3a-9b 03-11-0935 LONGITUDINAL DISPERSION IN COMPOUND CHANNELS: THE ROLES OF FLOODPLAIN VEGETATION AND FLOW DEPTH
HOSSEIN HAMIDIFAR, MARYAM ASKARI
- 3a-9c 03-11-0602 OBSERVATIONS OF FLOATING SEED DISPERSAL IN VEGETATED OPEN CHANNEL FLOW
XIAOGUANG LIU, YUHONG ZENG, XI ZHU
- 3a-9d 03-11-0134 SMALL EAVES ON FISH PASSAGE FACILITIES IMPROVE STABILITY AND MIGRATION OF SCULPIN
KEIKO MURAOKA, YUICHI KAYABA
- 3a-9e 03-11-1504 THE EFFECT OF HYDRODYNAMIC CONDITION ON THE MORPHOLOGY, HYDRONAMICS AND PHOTOSYNTHESIS OF FOUR SUBMERGED PLANTS
YI MIN ZHANG, FEI YANG, MENG JIE MA, YUE XIANG GAO, LONG MIAN WANG, MING KONG, YUEING ZHU
- 3a-9f 03-12-1018 RESEARCH ON THE EVOLUTION CHARACTERISTICS OF ECO-HYDROLOGICAL PROCESS AND RESPONSES TO HUMAN ACTIVITIES IN SANJIANGYUAN REGION
JIA-QI ZHAI, YONG ZHAO, HAI-HONG LI, WEN-QI FU, QING-MING WANG, FAN HE, LI-ZHEN WANG, YONG-NAN ZHU

TECHNICAL SESSION 12D

THEME 6: WATER RESOURCES MANAGEMENT

Friday, 18th August 2017

9.30 AM - 11 AM

ROOM: Johor / Kedah

CHAIR: Dr. Balqis Mohamed Rehan

- 6a-7a 06-26-0767 RESEARCH ON CLIMATE CHANGES IN JINGHE RIVER BASIN AND ITS EFFECTION ON RUNOFF
JING YIN, FAN HE, GUOYU QIU, SHI FENG, JUNJIE ZHANG, SHUANG ZHANG
- 6a-7b 06-26-1318 REDUCING WATER LOSSES IN THE UPPER NILE RIVER BASIN
NESMA ADWY, HAYTHAM AWAD, MOHAMED ABOUROHIM, ALAA ELDEEN YASSIN
- 6a-7c 06-26-1541 PROTOTYPE OBSERVATION ON ICE IN WATER TRANSFER CANAL
YAN HUA NIE, JIN BO YANG, GUO BING HUANG, MENG KAI LIU
- 6a-7d 06-26-1034 ASSESSMENT OF WATER STORAGE VARIABILITY USING GRACE AND GLDAS DATA IN THE ARABIAN COUNTRIES CONSIDERING IMPLICATIONS FOR WATER RESOURCES MANAGEMENT
MOHAMED SABER, SAMEH A. KANTOUSH, TETSUYA SUMI
- 6a-7e 06-26-1394 ANALYSIS OF METEOROLOGICAL AND HYDROLOGICAL DROUGHT EVENTS IN PENINSULAR MALAYSIA
MD MUNIR HAYET KHAN, NUR SHAZWANI MUHAMMAD, AHMED EL-SHAFIE
- 6a-7f 06-26-1426 OPTIMIZING HYDROPOWER OPERATION OF RESERVOIR SYSTEM IN THE UPPER YELLOW RIVER
YUAN SI, XIANG LI, DONGQIN YIN, JIAHUA WEI, YUEFEI HUANG, TIEJIAN LI, GUANGQIAN WANG

TECHNICAL SESSION 12E

THEME 2: FLOOD MANAGEMENT

Friday, 18th August 2017

9.30 AM - 11 AM

ROOM: Kelantan

CHAIR: Prof. Weiming Wu

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| 2c-5a | 02-08-0881 | ASSESSING THE FLOOD DYNAMICS OF THE SOMERSET LEVELS USING TELEMAC-2D
<i>DAVID GLOVER, SHUNQI PAN</i> |
| 2c-5b | 02-08-1235 | INTERACTION OF TORRENTIAL AND URBAN CATCHMENTS - PROS AND CONS OF STORM SEWER RETENTIONS
<i>STEFAN ACHLEITNER, BENJAMIN KAMMERECK, BERNHARD KOHL, LEOPOLD STEPANEK, ROBERT SITZENFREI</i> |
| 2c-5c | 02-08-0774 | NUMERICAL MODELING OF LANDSLIDE AND LANDSLIDE GENERATED WAVES IN RESERVOIR
<i>RADIANTA TRIATMADJA, NURUL AZIZAH, BENAZIR -</i> |
| 2c-5d | 02-08-0965 | ASSESSMENT OF DEBRIS ISSUES IMPACTING DESIGN OF A FLOOD DIVERSION PROJECT IN A LARGE SCALE PHYSICAL MODEL
<i>ANDREW CORNETT, PAUL KNOX, JOHN MENNINGER, RICK LUX, MITCHEL PROVAN</i> |
| 2c-5e | 02-08-1053 | THE IMPACT OF FLOODPLAIN DEGRADATION ON FLOODING IN THE UK
<i>GEORGE HERITAGE, NEIL ENTWISTLE</i> |
| 2c-5f | 02-08-0122 | A HYDROLOGY AND HYDRAULIC CASE STUDY ON JANUARY 2015 FLASH FLOOD IN UNIGARDEN, KOTA SAMARAHAN, SARAWAK
<i>HAUZHI ER, LEONARD LIK PUEH LIM, CHARLES HIN JOO BONG</i> |

TECHNICAL SESSION 12F

THEME 4: COASTAL, ESTUARIES AND LAKES MANAGEMENT

Friday, 18th August 2017

ROOM: Melaka

9.30 AM - 11 AM

CHAIR: Dr. Reza Ahmadian

- 4c-6a 04-18-0175 FREE-SURFACE AND VELOCITY CHARACTERISTICS OF TIDAL BORE PROPAGATION AGAINST A SLOPE: EXPERIMENTS ON DECELERATING BORES
YOUKAI LI, HUBERT CHANSON
- 4c-6b 04-18-0630 AN ITERATIVE NEUMANN BOUNDARY CONDITION METHOD AND ITS APPLICATION IN THE SIMULATION OF BREAKING INTERNAL SOLITARY WAVES
HAI ZHU, LINGLING WANG, HONGWU TANG, QUNLIANG YANG, JOHN J. R. WILLIAMS
- 4c-6c 04-18-0986 TWO-DIMENSIONAL OIL SPILL MODELLING FOR COASTAL WATERS
LAVINE WONG, MOHAMAD HIDAYAT JAMAL, AHMAD KHAIRI ABD WAHAB
- 4c-6d 04-18-0509 DETERMINING OBSERVATIONAL LOCATIONS IN THE GEUM RIVER ESTUARY
NAM-HOON KIM, JIN HWAN HWANG
- 4c-6e 04-19-1305 SEASONAL WATER QUALITY CHARACTERISTIC OF TROPICAL URBAN AMPANG HILIR LAKE, KUALA LUMPUR, MALAYSIA
SHIN YING ANG, HIN LEE LEE

TECHNICAL SESSION 12G

THEME 7: HYDROINFORMATICS / COMPUTATIONAL METHODS AND EXPERIMENTAL METHODS

Friday, 18th August 2017

9.30 AM - 11 AM

ROOM: Negeri Sembilan

CHAIR: Dr. Markus Noack

- 7d-5a 07-34-0407 A NOVEL HYDRO-ACOUSTIC SYSTEM FOR AUTOMATICALLY, PERMANENTLY COLLECTING REAL-TIME RIVER FLOW DATA
KIYOSI KAWANISI, MOHAMAD BASEL AL SAWAF
- 7d-5b 07-34-0817 THE ESTIMATION OF SPATIAL AND TEMPORAL DISTRIBUTION OF ACCIDENTALLY SPILLED POLLUTANT INTO RIVER
IL WON SEO, DONGHAE BAEK
- 7d-5c 07-35-0566 DYNAMIC MERGING OF CROWD-SOURCED, RAIN GAUGE, AND RADAR RAINFALL MEASUREMENTS FOR URBAN STORMWATER MODELING
PAN YANG, TZE LING NG
- 7d-5d 07-35-0823 BIG DATA ANALYTICS TOOLS ON MALAYSIA'S CLIMATE CHANGE PROJECTED DATA TO REINFORCE WATER RISK MANAGEMENT
MOHD ZAKI MAT AMIN, MOHAMMAD FIKRY ABDULLAH, NURUL HUDA MD ADNAN, HARLISA ZULKIFLI, MARINI MOHAMAD IDERIS, ZURINA ZAINOL
- 7d-5e 07-35-0458 FAST FOURIER TRANSFORM ANALYSIS OF PRECIPITATION DATA FOR THE COLORADO RIVER BASIN
FERNANDO J. GONZÁLEZ VILLARREAL, VICTOR IGNACIO MASTACHE MENDOZA
- 7d-5f 07-35-1102 BIG DATA TECHNOLOGY IMPLEMENTATION IN MANAGING WATER RELATED DISASTER: NAHRIM'S EXPERIENCE
MOHAMMAD FIKRY ABDULLAH, MARDHIAH IBRAHIM, HARLISA ZULKIFLI

TECHNICAL SESSION 12H

THEME 6: WATER RESOURCES MANAGEMENT

Friday, 18th August 2017

ROOM: Pahang

9.30 AM - 11 AM

CHAIR: Zahir Yahya

- 6b-2a 06-27-1398 GREY WATER USE AS AN ALTERNATE RESOURCE
SARAOSH ALAM GHAUSI, MOHD MUZZAMMIL, JAVED ALAM
- 6b-2b 06-27-1156 THE ROLE OF RAINWATER HARVESTING TECHNIQUES ON PREPARATION OF WATER REQUIRED FOR VEGETATION IN ARID AND SEMI-ARID REGIONS
MOHAMMAD TAGHI DASTORANI, BANAFSHE KOUHZAD, ADEL SEPEHR, ALI TALEBI
- 6b-2c 06-26-0462 PREPARATION OF A NEWLY FUNCTIONALIZED POLYMERIC ADSORBENT FOR THE ENHANCED TREATMENT OF TEXTILE CONTAMINANT
SITI NURZAHIDAH RAMLI, KENG YUEN FOO, NOR AZAZI ZAKARIA
- 6b-2d 06-26-1321 MOBILISING LOCAL COMMUNITIES TOWARDS INVOLVEMENT IN RIVER MANAGEMENT: LESSONS LEARNT FROM THE SUNGAI PINANG RIVER COMMUNITY ENGAGEMENT PROJECT IN PENANG, MALAYSIA
CHEE HUI LAI, NGAI WENG CHAN, HUI WENG GOH, NOR AZAZI ZAKARIA
- 6b-2e 06-26-0021 THE DISTRIBUTION OF FRESHWATER PHYTOPLANKTON IN THE STORMWATER RUNOFF TREATMENT CONSTRUCTED WETLAND
SYAFIQ SHAHARUDDIN, AMINUDDIN AB. GHANI, NOR AZAZI ZAKARIA, WAN MAZNAH WAN OMAR

TECHNICAL SESSION 12I

THEME 7: HYDROINFORMATICS / COMPUTATIONAL METHODS AND EXPERIMENTAL METHODS

Friday, 18th August 2017

9.30 AM - 11 AM

ROOM: Perak

CHAIR: Prof. Willi H. Hager

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| 7c-4a | 07-33-1005 | PREDICTION OF FECAL CONTAMINATION LEVEL IN NAKDONG RIVER USING DATA-DRIVEN MODEL
<i>IL WON SEO, SOO YEON CHOI</i> |
| 7c-4b | 07-33-0546 | NUMERICAL STUDY OF THE HYDRAULIC BEHAVIOR IN A TUNNEL
<i>CECIA MILLAN BARRERA, GILBERTO SALGADO MALDONADO, VÍCTOR ARROYO CORREA</i> |
| 7c-4c | 07-33-0675 | FORCE SIMULATION FOR GRAVEL AND ROCK TRANSPORT
<i>PEIWEI XIE, SHOOKA KARIMPOUR, VINCENT H. CHU</i> |
| 7c-4d | 07-33-0838 | DEVELOPING NEW INDICES FOR ASSESING RESILIENCY IN WATER DISTRIBUTION NETWORKS
<i>ROZA RANJBAR, ARDALAN IZADI, FARHAD YAZDANDOOST</i> |
| 7c-4e | 07-33-1313 | VERIFICATION OF HINDCASTING FOR HIGH WAVE AND STORM SURGE DUE TO EXPLOSIVE CYCLONE
<i>TAKUTO HAGA, KATSUMI SEKI, TARO ARIKAWA</i> |
| 7c-4f | 07-33-1484 | THE NEW DEVELOPMENT OF FLUID-STRUCTURE INTERACTION IN STRUCTURE PHYSICAL BEHAVIOUR ANALYSIS
<i>YANG TANG, JIJIAN LIAN, CHUNLAI QU</i> |

TECHNICAL SESSION 12J

THEME 5: URBAN WATER MANAGEMENT

Friday, 18th August 2017

9.30 AM - 11 AM

ROOM: Perlis

CHAIR: Dr. Ming Fai Chow

- 5d-3a 05-24-0784 RAPID ASSESSMENT OF HYDROLOGIC PERFORMANCE OF LOW IMPACT DEVELOPMENT PRACTICES AT DIFFERENT IMPLEMENTATION LEVELS
YANG YANG, MAY TING FONG CHUI
- 5d-3b 05-24-1636 IMPACT OF SUBMERGED ZONE DEPTH ON STORMWATER POLLUTANTS REMOVAL IN TROPICAL BIOFILTRATION SYSTEMS
ANDREAS ADITYA HERMAWAN, MUHAMMAD IRFAN RAHMAN, AMIN TALEI, FANG YENN TEO
- 5d-3c 05-24-0804 PERFORMANCE OF GROSS POLLUTANT TRAP IN URBAN RIVER CATCHMENT FOR KLANG RIVER BASIN
NUR FARAZUIEN MD SAID, LARIYAH MOHD SIDEK, HIDAYAH BASRI, NAZIRUL MUBIN ZAHARI, MOHD AZMI ISMAIL, NORLIDA MOHD. DOM, LLYOD CHUA, SIMON BEECHAM
- 5d-3d 05-24-0471 UTILIZATION OF NATURAL CLAY AS A RELIABLE SOLUTION FOR THE ADSORPTIVE TREATMENT OF METOLACHLOR CONTAMINATED STORMWATER
SITI FAIROS AB SHATTAR, NOR AZAZI ZAKARIA, KENG YUEN FOO
- 5d-3e 05-25-0088 DISCHARGE CAPACITY OF JUNCTION MANHOLES WITH BOTTOM DROPS OR TOP OFFSETS
GAETANO CRISPINO, MICHAEL PFISTER, CORRADO GISONNI
- 5d-3f 05-25-0605 A FINITE VOLUME APPROACH FOR TRANSIENT FLOW IN URBAN STORMWATER DRAINAGE SYSTEM CONTAINING TRAPPED AIR
LING ZHOU, ALAIN JOËL ELONG, XU YANG, HUAN WANG, TIANWEN PAN

SPECIAL SESSION 2A

TOPIC: SUSTAINABLE WATER RESOURCES PLANNING & MANAGEMENT UNDER CLIMATE CHANGE

Friday, 18th August 2017

9.30 AM - 11 AM

ROOM: Pulau Pinang

CHAIR: Prof. Young Oh-Kim

- 8b-1a 08-37-0522 COMPARATIVE STUDY ON EFFECT OF EXTREME WEATHER AND URBANIZATION TO FLOOD OF TYPICAL RIVERS IN JAPAN
KENTARO YAMAMOTO, KENICHIRO KOBAYASHI, SATORU OISHI
- 8b-1b 08-37-0839 IS "GREENING OF ECONOMY" THE ANSWER TO SUSTAINABLE WATER RESOURCES MANAGEMENT UNDER CLIMATE CHANGE?
ELPIDA KOLOKYTHA
- 8b-1c 08-37-0678 INSTITUTIONAL ANALYSIS OF WATER GOVERNANCE FOR ADAPTATION TO CLIMATE CHANGE
ANA CRISTINA SOUZA SILVA, CARLOS OLIVEIRA GALVÃO, MÁRCIA MARIA RIOS RIBEIDRO, TAFNES SILVA ANDRADE
- 8b-1d 08-37-1540 IMPACT OF CLIMATE AND LAND-USE CHANGE ON RUNOFF IN TYPICAL AREAS OF SANJIANG PLAIN
YICHENG WANG, BAOQI LI, WEIHUA XIAO, HEJIA WANG, HANG FU
- 8b-1e 08-37-0578 UNCERTAINTY FROM LAND USE AND CLIMATE CHANGE IN FUTURE STREAMFLOW SIMULATIONS
ILA CHAWLA, PRADEEP P. MUJUMDAR
- 8b-1f 08-37-1539 ASSESSMENT OF THE IMPACT OF CLIMATE CHANGE ON WATER RESOURCES IN THE NANLIUJIANG RIVER BASIN OF CHINA
YICHENG WANG, HEJIA WANG, WEIHUA XIAO, BAOQI LI
- 8b-1g 08-37-1571 WATER RESOURCE MANAGEMENT IN SUSTAINABLE PLANNING: EFFECT OF RIVER ANALYSIS METHODOLOGY ON PUBLIC POLICY DECISION-MAKING
MICHEL SOTO CHALHOUB
- 8b-1h 08-37-1176 INTEGRATED RESERVOIR OPERATION CONSIDERING REAL-TIME HYDROLOGICAL PREDICTION FOR ADAPTIVE WATER RESOURCES MANAGEMENT
DAISUKE NOHARA, TOMOHARU HORI

OPENING KEYNOTE 1: DR. TYLER A. ERICKSON

TITLE: DEMOCRATIZING ACCESS TO GLOBAL WATER INFORMATION WITH CLOUD TECHNOLOGIES

Monday, 14th August 2017

11.00 AM - 11.45 AM

ROOM: Dewan Merdeka

CHAIR: Prof. Peter Goodwin

OPENING KEYNOTE 2: YB DATO SRI DR. HAJI WAN JUNAIDI TUANKU JAAFAR

TITLE: MANAGING WATER FOR SUSTAINABLE DEVELOPMENT – LEARNING FROM THE PAST FOR THE FUTURE

Monday, 14th August 2017

11.45 AM - 12.30 PM

ROOM: Dewan Merdeka

CHAIR: Datuk Ir. Dr. Azuhan Mohamed

KEYNOTE 3: PROF. SHAHBAZ KHAN

**TITLE: UNESCO WATER SECURITY INITIATIVES
FOR ENHANCED RESILIENCE AND 2030 AGENDA
DELIVERY IN ASIA AND THE PACIFIC REGION**

Tuesday, 15th August 2017

ROOM: DTHO

8.30 AM - 9 AM

CHAIR: Prof. James E. Ball

KEYNOTE 4: PROF. ROGER A. FALCONER

**TITLE: FLOOD MODELLING AND HAZARD
ASSESSMENT FOR EXTREME EVENTS IN RIVER
BASINS**

Tuesday, 15th August 2017

ROOM: DTHO

9 AM - 9.30 AM

CHAIR: Prof. Subhasish Dey

KEYNOTE 5: PROF. ING. SILKE WIEPRECHT

**TITLE: INFLUENCE OF MORPHOLOGICAL
CHANGES ON ECOLOGY: A CASCADE OF
SCALES**

**Tuesday, 15th August 2017
ROOM: DTHO**

**2 PM - 2.30 PM
CHAIR: Prof. Angelos Findikakis**

KEYNOTE 6: PROF. PENGZHI LIN (林鹏 智)

**TITLE: BED SHEAR STRESS AND TURBULENCE
CHARACTERISTICS UNDER SOLITARY WAVES**

**Wednesday, 16th August 2017
ROOM: DTHO**

**8.30 AM - 9 AM
CHAIR: Prof. Dr. Robert Ettema**

KEYNOTE 7: PROF. STEPHEN MONISMITH

**TITLE: SOME LIKE IT HOT: STRATIFICATION,
CIRCULATION AND TURBULENCE IN A SHALLOW,
TROPICAL RESERVOIR**

**Wednesday, 16th August 2017
ROOM: DTHO**

**9 AM - 9.30 AM
CHAIR: Prof. James E. Ball**

KEYNOTE 8: PROF. DRAGAN A. SAVIĆ

**TITLE: A SMART CITY WITHOUT SMART WATER IS
ONLY A PIPE DREAM!**

**Thursday, 17th August 2017
ROOM: DTHO**

**8.30 AM - 9 AM
CHAIR: Prof. Arthur Mynett**

KEYNOTE 9: PROF. JORG IMBERGER

**TITLE: REAL-TIME, ADAPTIVE, SELF LEARNING
MANAGEMENT OF LAKES**

**Thursday, 17th August 2017
ROOM: DTHO**

**9 AM - 9.30 AM
CHAIR: Prof. Subhasish Dey**

KEYNOTE 10: PROF. FARHAD YAZDANDOOST

TITLE: RESILIENCE, FROM METAPHOR TO OPERATIONAL INDICATORS

Thursday, 17th August 2017

2 PM - 2.30 PM

ROOM: DTHO

CHAIR: Prof. Anton Schleiss

KEYNOTE 11: PROF. XIA JUN

TITLE: WATER SECURITY ISSUE AND ADAPTIVE WATER MANAGEMENT OF CHINA FOR CHANGING ENVIRONMENT

Friday, 18th August 2017

8.30 AM - 9 AM

ROOM: DTHO

CHAIR: Prof. Peter Goodwin

KEYNOTE 12: DR. JAE-YOUNG AHN

TITLE: SMART PLATFORM WITH HYDRO-INFORMATICS FOR SMART WATER MANAGEMENT

Friday, 18th August 2017

9 AM - 9.30 AM

ROOM: DTHO

CHAIR: Prof. Roger A. Falconer

