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| ASSESSMENT OF SPECIAL FLOOD RISK USING DISTRIBUTED HYDROLOGICAL MODEL IN LAOS<br><i>SENGHPHRACHANH PHRAKONKHAM, SO KAZAMA, DAISUKE KOMORI</i>   | 1731 |
| DAM FLOOD RISK ASSESSMENT BASED ON SET PAIR ANALYSIS- VARIABLE FUZZY SETS (SPAVFS) MODEL<br><i>YU CHEN, PENG ZHI LIN</i>  | 1740 |
| EVALUATION ON THE PHYSICO-CHEMICAL AND BACTERIOLOGICAL CONTAMINATION OF THE FLOOD WATER AFTER THE HEAVILY FLOOD INCIDENCE AT THE PAHANG RIVER, MALAYSIA<br><i>KAH YEE LIM, NOR AZAZI ZAKARIA, KENG YUEN FOO</i>   | 1745 |
| MODELING THE IMPACT OF CLIMATE CHANGE ON THE RUNOFF KELANTAN RIVER BASIN<br><i>CHEE LOONG WONG, JUNENG LIEW, ZULKIFLI YUSOP</i>   | 1754 |
| COMPARISON BETWEEN DETERMINISTIC AND UNCERTAINTY APPROACHES IN SIMULATING DESIGN FLOOD PROFILE ON THE JOHOR RIVER, MALAYSIA<br><i>ANUAR MD. ALI, GIULIANO DI BALDASSARRE, DIMITRI P. SOLOMATINE</i>   | 1764 |
| ASSESSING FLOOD DYNAMICS IN RIVERS AND RIPARIAN WETLANDS: AN INTEGRATED HYDROLOGICAL APPROACH<br><i>MICHAEL BUTTS, BIRGITTE VON CHRISTIERSON, CRAIG MACKAY, TERRY VAN KALKEN, SÍLVIA LEIRIÃO</i>  | 1771 |
| STUDY ON PARAMETERS ESTIMATION OF THE XAJ MODEL BASED ON UNDERLYING SURFACE CHARACTERISTICS<br><i>XING-NAN ZHANG, YUAN-HAO FANG, BO QU, LE-JUN MA, MIAO WU</i>  | 1779 |
| HYDRODYNAMIC NUMERICAL MODELLING OF DAM FAILURE AND IMPACTS ASSESSMENT OF SUSU DAM WITH MIKE<br><i>MOHD RASHID MOHD SHAH, LARIYAH MOHD SIDEK, MOHD RUZAIMI YALIT, MOHANADOSS PONRAJ, HIDAYAH BASRI</i>  | 1789 |
| IMPROVING HYDROLOGICAL PREDICTION WITH GLOBAL DATASETS: EXPERIENCES WITH BRAHMAPUTRA, UPPER AWASH AND KAAP CATCHMENTS<br><i>BISWA BHATTACHARYA, MD. TOHIDUL ISLAM, MD. TOHIDUL ISLAM, MD. SOHEL MASUD, SURAFEL MAMO, MJAWA SHENDULI, PRABIN ROKAYA, SCHALK JAN VAN ANDEL, ILYAS MASIH</i> | 1798 |
| DEVELOPMENT OF CLIMATE HAZARDS INDICATORS BASED ON DRIVERS–PRESSURES–STATE–IMPACTS–RESPONSES (DPSIR) FRAMEWORK: CASE STUDY IN CAMERON HIGHLANDS, MALAYSIA<br><i>KOK WENG TAN, PHUI NYING LOH</i>  | 1808 |
| METHODOLOGY FOR FLOOD RISK MAP DEVELOPMENT. APPLICATION TO VU GIA THU BON CATCHMENT, VIETNAM<br><i>NGOC DUONG VO, PHILIPPE GOURBESVILLE</i>   | 1815 |
| NUMERICAL SIMULATION OF FLOOD INUNDATION AND SEDIMENTATION CONSIDERING THE EFFECTS OF PADDY FIELDS<br><i>KENJI KAWAIKE, MASAKAZU HASHIMOTO, HAJIME NAKAGAWA</i>   | 1823 |
| ROBUSTNESS OF RISK-BASED OPTIMIZATION METHODOLOGY FOR FLOOD PROTECTION DECISIONS<br><i>BALQIS MOHAMED REHAN</i>   | 1831 |
| FLASH FLOOD INUNDATION ANALYSIS CONSIDERING THE AGGRADATIONS OF RIVERBED IN GOWAIN RIVER, BANGLADESH<br><i>MASAKAZU HASHIMOTO, KENJI KAWAIKE, YUJI HASEGAWA, TOMONORI DEGUCHI, SHAMMI HAQUE, ARPAN PAUL, MASHFIQUS SALEHIN, HAJIME NAKAGAWA</i>   | 1840 |



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| ADAPTING TO CLIMATE CHANGE THROUGH HOLISTIC RISK ASSESSMENT - THE PEARL APPROACH<br><i>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</i> | 1848        |
| SIMPLIFIED PHYSICALLY-BASED MODELING OF LEVEE BREACH ON SUTTER BYPASS CHANNEL<br><i>WEIMING WU</i>   | 1854        |
| ISSUES CONCERNING SPATIAL DATA COLLECTION AND PROCESSING FOR URBAN FLOOD MODELLING<br><i>AHMAD FIKRI ABDULLAH, ZORAN VOJINOVIC, VORAWIT MEESUK</i>   | 1863        |
| IMPLEMENTATION OF A METHODOLOGY TO REVIEW HIGH HAZARD DAMS<br><i>FERNANDO J. GONZÁLEZ VILLARREAL, JONATHAN BOLAÑOS CASTILLO, MIGUEL ANGEL BRIBIESCA RODRÍGUEZ, IRVING GARCÍA REYES</i>   | 1870        |
| IDENTIFYING URBAN FLOODING VULNERABILITY USING MCDM APPROACH<br><i>GYUMIN LEE, JINWON CHOI, KYUNG SOO JUN</i>  | 1878        |
| FLOODSS: CALL FOR COMMUNITY ACTION<br><i>MARIAN MUSTE</i>  | 1884        |
| PROPOSITION OF FLASH FLOOD FRAMEWORK USING OBJECT ORIENTED BAYESIAN APPROACH<br><i>QUAN LIU, BRAHIM BOUTKHAMOUINE, AYELEY TCHANGANI, HELENE ROUX, FRANÇOIS PERES</i>   | 1893        |
| EVALUATION OF DIFFERENCE MESH SIZE FOR OVERLAND ROUTING MODEL<br><i>WAN HAZDY AZAD WAN ABDUL MAJID, LARIYAH MOHD SIDEK, HIDAYAH BASRI, SUHANI SAIDIN, ABD. JALIL HASSAN</i>  | 1903        |
| FLOOD FREQUENCY ANALYSIS AND CURVES OF EQUAL PREDICTED PEAK DISCHARGE<br><i>THOTTUNGAL DRISSIA, VINAYAKAM JOTHIPRAKASH, ALAYIL BAHULEYAN ANITHA</i>  | 1911        |
| A NEW APPROACH FOR IMPROVING FLOOD MODEL PREDICTIONS BASED ON THE SEQUENTIAL ASSIMILATION OF SAR-DERIVED FLOOD EXTENT MAPS<br><i>RENAUD HOSTACHE, MARCO CHINI, LAURA GIUSTARINI, MELISSA WOOD, GIOVANNI CORATO, PATRICK MATGEN</i>   | 1921        |
| NUMERICAL ANALYSIS OF INUNDATION FLOW DUE TO HEAVY RAINFALL IN THE SHIRAKAWA RIVER ON JULY, 2012<br><i>XIANG CHEN, RYUICHI HIRAKAWA, TERUNORI OHMOTO</i>   | 1929        |
| <b><u>URBAN FLOOD MANAGEMENT</u></b>   | <b>1935</b> |
| Ogee WEIR CREST DEFINITION: HISTORICAL ADVANCE<br><i>WILLI H. HAGER, OSCAR CASTRO-ORGAZ</i>  | 1937        |
| POTENTIALS AND CONSTRAINTS OF URBAN POLDER DEVELOPMENT IN JAKARTA, INDONESIA. CASE STUDY: RAWA BADAQ POLDER<br><i>HARYO ISTIANTO, FRANSISCUS XAVERIUS SURYADI, SUMI AMARIENA HAMIM</i>   | 1949        |
| EXPLORE THE HYDRODYNAMIC FORCE ON THE SURFACE OF FLOATING STRUCTURE IN FINITE FLOWING WATER<br><i>ZHEN CUI, ZONG FU FU, YUE JUN CHEN, SHAN WANG, GUANG GANG MA, WEN JIANG</i>  | 1957        |
| MODELLING THE 1910 FLOOD IN THE BESANCON CENTRE<br><i>ANDRÉ PAQUIER, ANTOINE CHIAVERINI</i>  | 1965        |

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| EFFECTS OF VARYING UPSTREAM SIDE SLOPES ON DISCHARGE COEFFICIENT OF RECTANGULAR PROFILE SHORT-CRESTED WEIRS<br><i>YUE JUN CHEN, ZONG FU FU, ZHEN CUI, SHAN WANG, GUANG GANG MA, WEN JIANG, YAO WANG, XUE HAN QIU</i>           | 1972        |
| URBAN POLDER DEVELOPMENT RELATED TO FLOOD PROTECTION IN KOTA LAMA, SEMARANG AS PROPOSED UNESCO HERITAGE<br><i>FAJAR BASKORO WICAKSONO, FRANSISCUS XAVERIUS SURYADI, ARIE SETIADI MOERWANTO</i>                                 | 1980        |
| FLOOD SIMULATION AND RISK ANALYSIS BASED ON SEMANTIC 3D CITY MODELS COUPLED WITH HYDRONUMERIC MODELS (FLORICIMO)<br><i>TORSTEN HEYER, HELLEN HAMMOUDI, ROBERTO TATIS MUVDI, STEFAN TROMETER, ARNE SCHILLING, JUERGEN STAMM</i> | 1989        |
| URBAN FLOOD MODELLING – PROCESS OR REGRESSION?<br><i>JAMES E. BALL</i>   | 1998        |
| DECENTRALIZED APPROACH FOR OPTIMAL EFFICIENCY OF MULTIPLE DETENTION RESERVOIRS IN URBAN AREA<br><i>THI THUY NGO, DO GUEN YOO, JOONG HONG KIM</i>   | 2008        |
| RESEARCH ON THE IMPACT OF BOUSSINESQ COEFFICIENT FOR NUMERICAL SCHEMES TO MODEL DAM-BREAK FLOODS<br><i>FAN YANG, DONGFANG LIANG</i>  | 2014        |
| COMMUNITY PERCEPTION OF SUSTAINABLE URBAN DRAINAGE SYSTEM: A CASE STUDY OF NHIEU LOC – THI NGHE BASIN, HO CHI MINH CITY, VIETNAM<br><i>LAN HOANG MY NGUYEN, PHU LE VO, TRUNG VAN LE</i>  | 2022        |
| AN OPEN-SOURCE MODELLING AND DATA SYSTEM FOR NEAR REAL-TIME FLOOD FORECASTING<br><i>QIUHUA LIANG, YUN XING, XIADONG MING, XILIN XIA, HUILI CHEN, XUE TONG, GANG WANG, HAIBO YANG</i>   | 2029        |
| INFLUENCE OF URBAN PATTERNS ON FLOODING<br><i>MARTIN BRUWIER, AHMED MUSTAFA, DANIEL G. ALIAGA, SÉBASTIAN ERPICUM, PIERRE ARCHAMBEAU, GEN NISHIDA, XIAO WEI ZHANG, MICHEL PIROTON, JACQUES TELLER, BENJAMIN DEWALS</i>          | 2039        |
| APPROPRIATE INTERVENTIONS TO METRO CEBU'S FLOODING PROBLEMS<br><i>DANILO T. JAQUE, ANDRE-PAUL AMPONG, JOAN ARCE JAQUE, PRIMITIVO CAL</i>   | 2048        |
| HYDRAULIC DESIGN OF HONG KONG WEST DRAINAGE TUNNEL<br><i>ANIL KUMAR, WONG CHIN TO LOUIS, RAYMOND TAI</i>   | 2056        |
| MODELLING TSUNAMI-GENERATED DEBRIS FLOW IN URBAN ENVIRONMENTS<br><i>RICARDO B. CANELAS, DANIEL CONDE, ORLANDO GARCIA FEAL, RUI M.L. FERREIRA</i>   | 2064        |
| SUDS IN THE UK AND SPONGE CITIES IN CHINA – WHAT PROGRESS IS BEING ACHIEVED IN URBAN FLOOD RISK MANAGEMENT?<br><i>RICHARD KELLAGHER, BRIDGET WOODS BALLARD, JUAN GUTIERREZ ANDRES, VIVIAN DOU</i>                              | 2071        |
| <b><u>FLOOD MITIGATION AND CONTROL</u></b>   | <b>2081</b> |
| GREEN WALL AS URBAN FLOOD MITIGATION<br><i>DARRIEN YAU SENG MAH, JING TECK LAU, HAFIZAH MARIAH MOHD ABUSEMAN, FANG YENN TEO</i>  | 2083        |
| ROAD INTERSECTION AS STORMWATER DETENTION BASIN<br><i>DARRIEN YAU SENG MAH, SIEW LING LOH, GABRIELLA SABATINI POUL, WAN HASHIM WAN IBRAHIM</i>   | 2088        |

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| A HYDROLOGY AND HYDRAULIC CASE STUDY ON JANUARY 2015 FLASH FLOOD IN UNIGARDEN, KOTA SAMARAHAN, SARAWAK<br><i>HAUZHIER, LEONARD LIK PUEH LIM, CHARLES HIN JOO BONG</i>   | 2092 |
| USING A MIXED SIMULATION-OPTIMIZATION METHOD FOR MULTI-RESERVOIR FLOOD CONTROL OPERATION<br><i>XINYU WAN, YANGYANG ZHANG, YANDONG JING, MIAOYAN SUN, PING'AN ZHONG</i>  | 2100 |
| HYDRAULICS OF DENDATE FLIP BUCKET WITH AN AERATOR<br><i>FEI MA, CHAO LUO, JIAN-HUA WU</i>   | 2110 |
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