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General Lectures

- ◆ MORE CROP LESS DROP - CLOSING THE TECHNOLOGY GAP DOWN
DATUK IR HJ KEIZRUL ABDULLAH (MALAYSIA)
- ◆ APPROACHES TOWARDS BRIDGE PIER SCOUR PROTECTION DOWN
TAE HOON YOON (KOREA)

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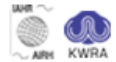


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Special Seminars

SS2 EDUCATION AND PROFESSIONAL DEVELOPMENT : INNOVATION AND ADVANCEMENT

- | | | |
|-------|------------------------------------------------------------------------------------------------------------------|------|
| SS2-1 | A TECHNICAL PRIMER - PICTORIAL & ENTERTAINING
BRUCE B. SHARP (AUSTRALIA) / SAHOL HAMID ABU BAKAR (MALAYSIA) | DOWN |
| SS2-2 | POST GRADUATE EDUCATION AND RESEARCH IN MALAYSIA
SAHOL HAMID ABU BAKAR / SHANKER KUMAR SINNAKAUDAN (MALAYSIA) | DOWN |
| SS2-3 | UNDERGRADUATE HYDROLOGICAL-EDUCATION IN SUDAN
KHALID A. FATTAH (SUDAN) | DOWN |













SS3 RENEWABLE ENERGY : WAVE OR TIDAL?

- | | | |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| SS3-1 | SIWHA TIDAL POWER PLANT CONSTRUCTION PROJECT
JOONG BAE PARK / EUN DAE DO / JAE CHUN CHOI / JAE HEE CHO (KOREA) | DOWN |
| SS3-2 | TIDAL REGIME CHANGE DUE TO SIWHA TIDAL POWER PLANT OPERATION IN THE KYUNGGI BAY OF THE YELLOW SEA
SOK KUH KANG / KI-DAI YUM / KYUNG TAE JUNG / SIN TAEK JEONG / JIN SOON PARK / JAE-KWI SO / CHANG JOO JANG (KOREA) | DOWN |
| SS3-3 | DEVELOPMENT OF POWER GENERATION SYSTEM USING TIDAL CURRENT IN ULDOLMOK
KWANG-SOO LEE / KI-DAI YUM / SOK KUH KANG / JIN SOON PARK / WOO-SUN PARK / SANG-HUN HAN / GONG-IL JUNG / JUNG WOO PARK (KOREA) | DOWN |

SS4 HYDRAULIC AND ENVIRONMENTAL ASSESSMENT OF LARGE ASIAN WATER PROJECTS

- | | | |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------|------|
| SS4-1 | SOUTH-TO-NORTH WATER TRANSFER: CHINA'S WATER PROJECT OF THE 21 st CENTURY
XUEJUN SHAO / HONG WANG / ZHAOYIN WANG (CHINA) | DOWN |
| SS4-2 | STUDIES AND SURVEYS ON FISHWAYS AND FISH MIGRATION AT THE NAGARAGAWA ESTUARY BARRAGE
JUICHI KAMIMURA / SUSUMU SAKAI / TOSHIRO SANEMATSU (JAPAN) | DOWN |
| SS4-3 | MONITORING AT THE NAGARAGAWA ESTUARY BARRAGE
YUICHI KAYABA / MINORU KOBAYASHI / SYOJI IGARASHI / AKIRA SUZUKI (JAPAN) | DOWN |
| SS4-4 | ENVIRONMENTAL ASSESSMENT AND SEDIMENTATION MANAGEMENT OF SANMENXIA RESERVOIR
BAOSHENG WU / JUNQIANG XIA (CHINA) | DOWN |

SS5 STREAM RESTORATION - PRINCIPLE, PRACTICE AND MONITORING/ASSESSMENT FOCUSED ON THE MONSOON REGIONS

SS5-1	SCIENTIFIC SUPPORT TO ECOSYSTEM CONSERVATION IN STREAM RESTORATION IN EAST ASIA TETSURO TSUJIMOTO (JAPAN)	 DOWN
SS5-2	URBAN STREAM REHABILITATION - LESSONS (TO BE) LEARNED FROM URBEM PROJECT ČEDO MAKSIMOVIC (UNITED KINGDOM)	 DOWN
SS5-3	FLOW-VEGETATION-SEDIMENT INTERACTION ANDREAS DITTRICH (GERMANY)	 DOWN
SS5-4	APPLICATION OF AQUATIC HABITAT IMPROVEMENT TECHNIQUES AT TACHIA RIVER IN TAIWAN CHING-HAO TUAN / CHAO-HSIEN YEH / SHAOHUA MARKO HSU (TAIWAN)	 DOWN
SS5-5	ECOLOGICAL RESPONSES OF RIVERS ON TREATMENT UNDER DIFFERENT MANAGEMENT REGIME CHANG-SEOK LEE / YONG-CHAN CHO / HYUN-CHEOL SHIN / BYUNG-CHEON LEE / YANG-SEOP BAE / HWA-GEUN BYUN (KOREA)	 DOWN
SS5-6	CHEONGGYE-CHEON RESTORATION PROJECT AND HYDROLOGICAL CYCLE ANALYSIS HYEON-JUN KIM / SOO-KIL YOON / SEONG-JIN NOH / CHEOL-HEE JANG (KOREA)	 DOWN
SS5-7	CFD MODELING VEGETATED CHANNEL FLOWS: THE STATE OF THE ART REVIEW SUNG-UK CHOI / WONJUN YANG (KOREA)	 DOWN
SS5-8	EXPERIENCE AND LESSON LEARNED FROM A MONITORING OF ADOPTED TREES, FLORA AND FAUNA ON THE HAN RIVER FLOOD PLAIN CHANG WAN KIM / HEJU KIM (KOREA)	 DOWN
SS5-9	EFFECTS OF RIVER DISCHARGE ON GROWTH OF PERIPHYTON IN SAND RIVER YUJI TODA / TETSURO TSUJIMOTO / NORIOMI FUJIMORI (JAPAN)	 DOWN
SS5-10	RESEARCH ON CHANGES OF TOPOGRAPHICAL FEATURES AND VEGETATION ON A SAND BAR DUE TO FLOODS SATORU SUGIO / KUNITOSHI WATANABE (JAPAN)	 DOWN
SS5-11	LANDSCAPE CHARACTERISTICS OF RIFFLES IN MIDDLE REACHES OF RIVER TAKEYOSHI CHIBANA / HIDEHITO IWAMOTO / TETSURO TSUJIMOTO (JAPAN)	 DOWN
SS5-12	ECOLOGICAL RESEARCHES FOR RIVER RESTORATION PROJECTS USING EXPERIMENTAL STREAM IN JAPAN YUICHI KAYABA / SHIRO SAGAWA / YOICHI KAWAGUCHI / MASAKUNI SAIKI / TOMOKO MINAGAWA / TAKASHI TASHIRO (JAPAN)	 DOWN
SS5-13	IMPROVING HABITAT OF FORMOSAN LANDLOCKED SALMON BY DAM REMOVAL CHAO-HSIEN YEH / HUI-PANG LIEN (TAIWAN)	 DOWN
SS5-14	COMPREHENSIVE ASSESSMENT MODEL OF ECOLOGICAL RIPARIAN ZONE WEI WU / ZHONGMIN YAN / CHUANFENG JIANG / JIHONG XIA (CHINA)	 DOWN
SS6	COPING WITH RISK; UNESCAP TYPHOON COMMITTEE HYDROLOGICAL COMPONENT	
SS6-1	COPING WITH RISK : OVERVIEW OF EXPERIENCES OF THE TYPHOON COMMITTEE LE-HUU TI (THAILAND)	 DOWN
SS6-2	GIS-BASED LANDSLIDE HAZARD MAPPING: SINMAP APPLICATION TO STORM-TRIGGERED LANDSLIDES ON MT.DALBONG, KOREA KYOUNG-DOO OH / IL-PYO HONG / BYONG-HO JUN / WON-SIK AHN / MEE-YOUNG LEE (KOREA)	 DOWN
SS6-3	ROUGH ESTIMATION OF FLOOD LEVEL FOR FLOOD CONTROL OF A DAM HUNG SOO KIM / IL PYO HONG / SANG UG KIM / JAE HYUN SONG (KOREA)	 DOWN

SS6-4 SUMMARY OF TRAINING COURSE ON "FLOOD HAZARD MAPPING"
DAISUKE KURIBAYASHI / SHIGENOBU TANAKA / TETSUYA IKEDA (JAPAN)



SS6-5 ACTIVITIES OF TYPHOON COMMITTEE WORKING GROUP ON HYDROLOGY
KATSUHITO MIYAKE (JAPAN)



SS6-6 THE ACTIVITIES OF HYDROLOGY AND DPP COMPONENTS OF UNESCAP/WMO
TYPHOON COMMITTEE
JINPING LIU (CHINA)



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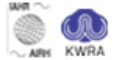














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

JFK Student Paper Competition

Preface






Sung-Uk Choi (Yonsei University, Seoul, Korea)



NUMERICAL METHODS, TURBULENCE AND HYDRAULIC MODELING

- | | | |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| SP-01 | 3-D PARTICLE METHOD FOR SIMULATION OF FLOW OVER STEPPED CHANNEL
HIROYUKI IKARI (JAPAN) |  |
| SP-02 | AUTOMATIC OPTIMIZATION OF A FLOOD DEFENCE MEASURE WITH
ELEMENTAL PARAMETERIZATION
VAN LINN ANDREAS (GERMANY) |  |
| SP-03 | NUMERICAL APPROACHES TO SIMULATE TWO-PHASE FLOWS
SEBASTIAN ROGER (GERMANY) |  |
| SP-04 | INTEGRATED MODELLING OF 2-D SURFACE WATER AND GROUNDWATER
FLOW WITH CONTAMINANT TRANSPORT
TIM SPARKS (UNITED KINGDOM) |  |
| SP-05 | TWO-LAYER SHALLOW WATER MODELLING OF FAST GEOMORPHIC FLOWS
AND EXPERIMENTAL VALIDATION ON IDEALISED LABORATORY DAM-BREAK
WAVES
BENOIT SPINEWINE (BELGIUM) |  |
| SP-06 | CFD SIMULATIONS OF ASYMMETRIC KINOSHITA-GENERATED MEANDERING
BENDS
JORGE D. ABAD (USA) |  |

EXPERIMENTAL METHODS AND HYDRAULIC STRUCTURES

- | | | |
|-------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| SP-07 | HYDRODYNAMICS OF TWO-PHASE FLOW IN A DEEP AIR-LIFT REACTOR
J. P. GIOVANNETTONE (USA) |  |
| SP-08 | HYDRAULIC CHARACTERISTICS OF STEPPED PLUG ENERGY DISSIPATER IN
FLOOD DISCHARGE TUNNEL
ZHONG TIAN (CHINA) |  |
| SP-09 | EXPERIMENTAL RESULTS OF PRESSURE VARIATION IN TWO-PHASE AIR-WATER
FLOW IN WATER TUNNELS
ABDORREZA KABIRI-SAMANI (IRAN) |  |
| SP-10 | PREDICTING TRANSVERSE DISPERSION COEFFICIENT IN NATURAL STREAMS
TAE MYOUNG JEON (KOREA) |  |
| SP-11 | FLOW DYNAMICS OVER A GRAVEL RIVERBED
M.J. FRANCA (SWITZERLAND) |  |

- SP-12** INDEXING BY FREE SURFACE VELOCITY: A PROSPECT FOR REMOTE DISCHARGE ESTIMATION
CEYDA POLATEL (USA) 
- SYSTEM, ENVIRONMENT, & COASTAL, INLAND AND GROUND WATER**
- SP-13** CALIBRATION OF WATER DISTRIBUTION SYSTEMS: EVOLUTIONARY APPROACHES WHILE ACCOUNTING FOR FLUID TRANSIENTS
BONG SEOG JUNG (CANADA) 
- SP-14** COMPARISON OF DIFFERENT APPROACHES TO MODEL TRANSPORT IN GROUNDWATER ON A VERY LARGE SCALE
MILOS VASIN (GERMANY) 
- SP-15** SEWER NETWORK OPTIMAL DESIGN BASED ON CELLULAR AUTOMATA PRINCIPLES
YUFENG GUO (UNITED KINGDOM) 
- SP-16** ESTIMATION OF THE TOTAL FLOW DURING THE NON-FLOOD PERIOD USING COMPONENT SENSITIVITY
EUN-SUNG CHUNG (KOREA) 
- SP-17** EFFECTS OF HYDRAULIC MANIPULATION ON HABITAT AVAILABILITY FOR MIGRATORY SHOREBIRDS IN AN AUSTRALIAN COASTAL WETLAND
ALICE HOWE (AUSTRALIA) 
- SP-18** LOCAL DISSOLVED OXYGEN (DO) VARIATIONS IN THE VICINITY OF DIFFERENT BOULDER ARRANGEMENTS PLACED IN A FLUME
SERHAT KUCUKALI (TURKEY) 

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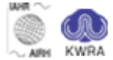
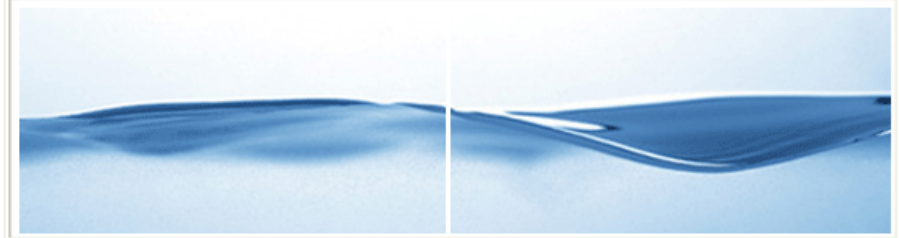






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Keynote Lectures

- ◆ HYDRAULIC MODELLING IN A DATA-RICH WORLD
PAUL BATES (UK) 
- ◆ A PRACTITIONERS VIEW OF MODERN DEVELOPMENTS IN LIMNOLOGY
JORG IMBERGER (AUSTRALIA) 
- ◆ HYDRAULICS IN THE TIMES OF CHOLERA : THE CHICAGO RIVER, LAKE MICHIGAN AND URBAN GROWTH
MARCELO H. GARCIA (USA) 
- ◆ GENERALIZED SEDIMENT TRANSPORT COMPUTER MODELS
CHIH TED YANG (USA) 



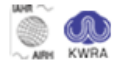


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Technical Sessions *Theme A*

“Hydroinformatics, Hydraulic Modelling, and Data : Competition or Integration?”

A01 ADVANCEMENTS IN SUPPORT OF HYDROINFORMATICS (I)

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| <p>A01-1 CHARACTERISTICS OF CONCENTRATION FIELD IN THE INITIAL REGION OF A JET IN COFLOW
L. P. XIA / K. M. LAM (HONG KONG)</p> <p>A01-2 AN EFFICIENT METHOD TO SIMULATE JET IN WAVE ENVIRONMENT
LINGLING WANG / NA ZHONG / SHENGYI ZHENG (CHINA)</p> <p>A01-3 COHERENT STRUCTURES AND VORTEX IDENTIFICATION
FRANCESCO GALLERANO / LAVINIA MELILLA / ENRICO PASERO (ITALY)</p> <p>A01-4 TWO-PHASE-FLOW THEORETICAL AND NUMERICAL MODELS FOR HYDRAULIC JUMPS, INCLUDING AIR ENTRAINMENT
ANDREA GONZALEZ / FABIAN BOMBARDELLI (USA)</p> | <p> DOWN</p> <p> DOWN</p> <p> DOWN</p> <p> DOWN</p> |
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A02 ADVANCEMENTS IN SUPPORT OF HYDROINFORMATICS (II)

- | | |
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| <p>A02-1 BREAKLINE DETECTION EMBEDDED IN A HYBRID MESHING SCHEME
VOLKER BERKHAHN / KAI KAAPKE / SEBASTIAN RATH / ERIK PASCHE (GERMANY)</p> <p>A02-2 MODEL EXPERIMENTALS OF FAST-CLOSING-GATE FOR THE LAXIWA HYDROPOWER STATION
QINGSHENG CHEN / ZUHUI SHI / YU YANG / JIACAI LV / MINGMING LIU / YONGPING LIAO / JUN ZHOU (CHINA)</p> <p>A02-3 MAN AGAINST MACHINE: EXPERIMENTS IN VEGETATION INDUCED RESISTANCE
VLADAN BABOVIC / MARTIN BAPTIST / ARTHUR MYNETT (NETHERLANDS)</p> <p>A02-4 NUMERICAL SIMULATION OF BRAIDED RIVERS WITH ERODIBLE BANKS
CHANG-LAE JANG / YASUYUKI SHIMIZU / ICKHWAN KO (KOREA)</p> <p>A02-5 INVESTIGATION OF IMPACT OF SECONDARY FLOWS IN TURBULENT OPEN-CHANNEL FLOWS USING DNS DATA
SUNG-UK CHOI / YOUNGHOON JOUNG (KOREA)</p> <p>A02-6 NUMERICAL SIMULATION OF OPEN-CHANNEL FLOWS OVER SMOOTH-ROUGH BED STRIPS
MOONHYEONG PARK / SUNG-UK CHOI / HYEONGSIK KANG (KOREA)</p> | <p> DOWN</p> <p> DOWN</p> <p> DOWN</p> <p> DOWN</p> <p> DOWN</p> <p> DOWN</p> |
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A03 MODERN TECHNOLOGY APPLIED TO MODELING AND MANAGEMENT OF WATER RESOURCES

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| <p>A03-1 INTEGRATING REMOTE SENSING, GIS AND MATHEMATICAL MODELLING FOR</p> | <p> DOWN</p> |
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SURFACE WATER QUALITY MANAGEMENT IN AN IRRIGATED WATERSHED
A. M. AZAB / ROLAND PRICE / IOANA POPESCU (EGYPT)

A03-2 AUTOMATED GRID GENERATION FOR FLOOD PREDICTION USING LIDAR DATA 

RYOTA TSUBAKI / ICHIRO FUJITA / GEORGE LUGOMELA (JAPAN)

A03-3 RIVER AND LAKE WATER QUALITY SIMULATION WITH GIS-INTEGRATED BASIN-SCALE MODELS 

A. G. CAPODAGLIO / J. BOGUNIEWICZ / F. SALERNO / G. TARTARI (ITALY)

A03-4 VALIDATION OF A QUASI-2D HYDRODYNAMIC RIVER FLOOD MODEL USING HISTORICAL AND ERS-SAR DERIVED FLOOD MAPS 

LUIS TIMBE / PATRICK WILLEMS / JEAN BERLAMONT (BELGIUM)


A03-5 STUDY ON COMPARATIVE METHOD USING AHP AND GIS BASED DISTRIBUTED RUNOFF MODEL 

JIN-HYEOG PARK / TOSHIHARU KOJIRI / DEUK KOO KOH (KOREA)

A03-6 DYNAMIC ASSESSMENT OF WATER RESOURCES IN THE YELLOW RIVER BASIN USING GIS/RS AND WEP-L MODEL 

Y. JIA / H. WANG / J. WANG / D. QIN / X. LUO / Z. ZHOU / D. YAN (CHINA)

A04 INTEGRATED MANAGEMENT AND DECISION SUPPORT SYSTEMS (I)

A04-1 DAILY COORDINATED MULTI-RESERVOIR OPERATING MODEL WITH MULTIPLE OBJECTIVES 

SHEUNG-KOWN KIM / YOUNGDAE LEE / JAEHEE KIM / ICK HWAN KO (KOREA)

A04-2 A BAYESIAN SDP MODEL FOR MULTI-RESERVOIR OPERATION 

B. NIRMALA / P. P. MUJUMDAR (INDIA)

A04-3 AN APPLICATION OF MONTE CARLO OPTIMIZATION TO RESERVOIR OPERATION 

ALCIGEIMES BATISTA CELESTE / KOICHI SUZUKI / AKIHIRO KADOTA (JAPAN)

A04-4 A NEURAL NETWORK BASED OPERATIONAL RESERVOIR INFLOW FORECASTING MODEL FOR AN ALPINE HYDROPOWER PLANT 

DIETER THEINER / MARKUS ZOESSMAYR / PETER RUTSCHMANN (AUSTRIA)

A05 INTEGRATED MANAGEMENT AND DECISION SUPPORT SYSTEMS (II)

A05-1 DROUGHT PREDICTION OVER KHORASAN PROVINCE IN NORTH-EAST OF IRAN BY USING DOWNSCALING TECHNIQUE ON DIRECT GCM OUTPUTS 

SINA SAMADI / MAJID HABIBI NOKHANDAN / HASAN ASKARI SHIRAZI (IRAN)

A05-2 APPLICABILITY OF RIVERWARE DECISION SUPPORT SYSTEM TO RIVER BASINS IN JAPAN 

YICHENG WANG / JUNICHI YOSHITANI (CHINA)

A05-3 FLOOD MANAGEMENT DECISION MAKING USING SPATIAL COMPROMISE PROGRAMMING WITH REMOTE SENSING AND CENSUS BLOCK INFORMATION 

HONGHAI QI / M. S. ALTINAKAR / XINYA YING / SAM S.Y. WANG (USA)

A05-4 INTEGRATED MANAGEMENT OF THREE RESERVOIRS TO SOLVE TRI-LEMMA OF DAM CONSTRUCTION □ SAIGAWA RIVER IMPROVEMENT PLAN □ 

NOBUYUKI TAMAI / MITSUTOSHI YAMAMOTO (JAPAN)

A05-5 INTEGRATED NATURAL RESOURCES MANAGEMENT FRAMEWROK IN SEMI-ARID REGIONS 

AMMAR JARRAR / NIRANJALI JAYASURIYA / MAAZUZA OTHMAN / ANAN JAYYOUSI (ISRAEL)

A05-6 STUDY ON THE IMPELEMENTAION STRATEGY FOR INTEGRATED WATER RESOURCES MANAGEMENT IN REPUBLIC OF KOREA
SUNG KIM / KYU-CHEOUL SHIM / HAK-SOO KIM / SUNG-HACK LEE (KOREA)



A06 INTEGRATED MANAGEMENT AND DECISION SUPPORT SYSTEMS (III)

A06-1 A RESERVOIR OPERATION DSS BASED ON OPTIMIZATION AND NEURO-FUZZY TECHNIQUES
ANTONINO CANCELLIERE / GIUSEPPE GIULIANO / GIUSEPPE ROSSI / VINCENZO NICOLOSI (ITALY)



A06-2 DEVELOPMENT AND APPLICATION OF A DECISION MODEL FOR RESERVOIR OPERATION
PANUWAT PINTHONG / ASHIM DAS GUPTA / MUKAND SINGH BABEL (THAILAND)



A06-3 THE CONCERTED FLOOD CONTROL OPERATION RULES AT THE UPPER AND LOWER JINHU RESERVOIRS
JIAN LIU / WEN XIAO / JIAYUAN WANG (CHINA)



A06-4 REGIONALIZATION OF A CONTINUOUS RUNOFF MODEL PARAMETERS BASED ON BASIN PHYSICAL CHARACTERISTICS
IL-WON JUNG / DEG-HYO BAE (KOREA)



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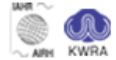


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Technical Sessions

Theme B

“Urban and Industrial Flows - Analysis, Management, and Security”

B01 INTERNAL FLOWS IN INDUSTRIAL SYSTEMS (I)

- | | | |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| B01-1 | INTERNAL HYDRAULIC DESIGN OF A LONG DIFFUSER IN SHALLOW WATER: BUENOS AIRES SEWAGE DISPOSAL IN RIO DE LA PLATA ESTUARY
TOBIAS BLENINGER / LAURA M. PEREZ / HUGO MILLI / GERHARD H. JIRKA (GERMANY) | DOWN |
| B01-2 | FAST MODELS FOR TRANSIENT ANALYSIS OF PIPE NETWORKS
V. V. TARASEVICH / A. A. ATAVIN / A. A. MOROZ / YU. V. KOLEVATOV / V. I. SABEL'NIKOV (RUSSIA) | DOWN |
| B01-3 | UNCONVENTIONAL DYNAMIC EFFECTS IN PLASTIC WATER PIPE SYSTEMS
HELENA RAMOS / DIDIA COVAS / A. B. ALMEIDA (PORTUGAL) | DOWN |
| B01-4 | SLOSHING ANALYSIS IN A TANK USING A DEPTH AVERAGED FLOW MODEL IN GENERALIZED CURVILINEAR MOVING COORDINATE SYSTEM
SHINICHIRO ONDA / TAKASHI HOSODA / MICHIHIDE MIURA (JAPAN) | DOWN |


B02 INTERNAL FLOWS IN INDUSTRIAL SYSTEMS (II)

- | | | |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| B02-1 | VORTEX GEOMETRY OF A JET-IN-CROSSFLOW DISCHARGE
VACLAV KOLAR (CZECH REP) | DOWN |
| B02-2 | STUDY ON HYDRAULIC CHARACTERISTICS OF MULTIFUNCTION SURGE TANK
ZONGFU FU / ZONGMIN YAN / MINGMING LIU / NAN HU (CHINA) | DOWN |
| B02-3 | COHERENT STRUCTURES IN PUMP-INTAKE FLOWS: A LARGE EDDY SIMULATION (LES) STUDY
TALIA TOKYAY / GEORGE CONSTANTINESCU (USA) | DOWN |
| B02-4 | ANALYSING SECONDARY SETTLING TANK BEHAVIOUR BY IN SITU MEASUREMENTS AND CFD MODELING
HARALD KAINZ / JÁNOS JÓZSA / MIKLÓS PATZIGER (AUSTRIA) | DOWN |
| B02-5 | VISUALIZATION ON VORTEX OF CROSS FLOW PAST A CIRCULAR CYLINDER NEAR A WALL BY PIV
JIAN WU / E-RONG QI / WEI LI / SHE-HUA HUANG (CHINA) | DOWN |
| B02-6 | A BASELINE STUDY OF THE EFFECT OF FRESHWATER BIOFILMS IN HYDRAULIC CONDUITS
ANDREW F. BARTON / JANE E. SARGISON / GREGORY J. WALKER / JON E. OSBORN / PAUL A. BRANDNER (AUSTRALIA) | DOWN |


B03 SECURITY OF WATER RESOURCES AND WATER SERVICES (I)


B03-1	A STRATEGY FOR RAPID WWTP PERFORMANCE EVALUATION COMBINING DETERMINISTIC AND BLACK-BOX MODELS BOTOND RÁDULY / KRIST V. GERNAEY / ANDREA G. CAPODAGLIO / PETER S. MIKKELSEN / MOGENS HENZE (ITALY)	 DOWN
B03-2	A MODEL FOR EFFICIENT WATER USE IN AN URBAN WATER NETWORK VÍCTOR HUGO ALCOCER YAMANAKA / FELIPE I. ARREGUÍN CORTÉS (MEXICO)	 DOWN
B03-3	REASONABLE ALLOCATION AND MANAGEMENT OF MULTI-WATER RESOURCES IN DALIAN CITY YAN HAN / SHIGUO XU (CHINA)	 DOWN
B03-4	CONTAMINATION SOURCE DETECTION IN WATER NETWORKS UNDER DEMAND UNCERTAINTY CRISTIANA DI CRISTO / ANNAMARIA E. DE SANCTIS / ANGELO LEOPARDI (ITALY)	 DOWN
B03-5	CONTROL OF DISPERSION'S POLLUTION FOR WATER SUPPLY AND RE-USE IN CONDITION OF UNCERTAINTY INFORMATION NIKOLAY V. SOKOLOV (RUSSIA)	 DOWN
B03-6	AVAILABLE ENERGY ASSESSMENT IN WATER SUPPLY SYSTEMS HELENA RAMOS / DIDIA COVAS / LUIZ ARAUJO / MARIA MELLO (PORTUGAL)	 DOWN
B04	SECURITY OF WATER RESOURCES AND WATER SERVICES (II), COMBINED SEWER OVERFLOWS (I)	
B04-1	LA VIÑUELA DAM. AIR EVACUATION PROBLEMS DURING THE PRESSURE COMPENSATION PROCESS TO OPEN THE GATE BOTTOM DAVID LÓPEZ GÓMEZ / JUAN ANTONIO RODRÍGUEZ ARRIBAS / CRISTÓBAL MATEOS IGUÁCEL (SPAIN)	 DOWN
B04-2	DEVELOPMENT OF A DECISION-MAKING SYSTEM FOR USE AGAINST THE INTRUSION OF BIOLOGICAL AGENTS INTO WATER SYSTEMS MINYOUNG KIM / CHRISTOPHER Y. CHOI / GERBA P. CHARLES (USA)	 DOWN
B04-3	MONITORING AND ANALYSIS OF COMBINED SEWER OVERFLOWS (CSOs) IN TAEJEON CITY, KOREA JOONGHYUN YUR / GEONHA KIM / JEONGKON KIM (KOREA)	 DOWN
B04-4	REVIEW OF SEWER SURCHARGING PHENOMENA AND MODELS A.R. SCHMIDT / M.S. GHIDAQUI / A.S. LEON / M.H. GARCIA (USA)	 DOWN
B05	COMBINED SEWER OVERFLOWS (II), STORM WATER MANAGEMENT (I)	
B05-1	IMPORTANCE OF NUMERICAL EFFICIENCY FOR REAL TIME CONTROL OF TRANSIENT GRAVITY FLOWS IN SEWERS ARTURO S. LEON / MOHAMED S. GHIDAQUI / ARTHUR R. SCHMIDT / MARCELO H. GARCIA (USA)	 DOWN
B05-2	EXPERIMENTAL STUDY ON EVACUATION FROM UNDERGROUND SPACE IN URBAN FLOOD TAISUKE ISHIGAKI / YASUYUKI BABA / KEIICHI TODA / KAZUYA INOUE (JAPAN)	 DOWN
B05-3	ON THE PERFORMANCE OF PERMEABLE PAVERS JAMES BALL / K. RANKIN (AUSTRALIA)	 DOWN
B05-4	STORM SEWER SYSTEM OF LA PAZ: A NEW DESIGN ERIK BOLLAERT / STEPHANIE ANDRE / GREGORY MORRIS (SWITZERLAND)	 DOWN
B05-5	ANALYSIS OF POLLUTANT RUNOFF LOADS FROM NON-POINT SOURCES CONSIDERING THE INTERACTION BETWEEN OVERLAND FLOWS AND ACCUMULATED MATERIALS MASATO NOGUCHI / YUSAKU FUCHIGAMI / MASAKAZU FURUE / KENTA RYU / NOBUKI MORIO / KENJI KAWAIKE / MAKOTO NISHIKAWA (JAPAN)	 DOWN

B06 STORM WATER MANAGEMENT (II)


B06-1 INFILTRATION STUDY FOR URBAN SOIL: CASE STUDIES –BUTTERWORTH AND ENGINEERING CAMPUS, UNIVERSITI SAINS MALAYSIA  DOWN
MOHD FAZLY YUSOF / NOR AZAZI ZAKARIA / AMINUDDIN AB. GHANI / ROZI ABDULLAH / CHUN KIAT CHANG (MALAYSIA)

B06-2 AN EXPERIMENTAL STUDY OF FLOW IN A VORTEX DROP STRUCTURE  DOWN
G. CHRISTODOULOU / T. PAPATHANASSIADIS (GREECE)

B06-3 ANALYZING STORMWATER RUNOFF DECREASE EFFECTS BY USING POROUS PAVEMENTS  DOWN
JAEUNG YI / WOON GWANG YEO / MUN MO KIM (KOREA)

B06-4 FLOOD ANALYSIS IN URBAN AREA OF THE EASTERN BANGKOK METROPOLITAN AREA  DOWN
NAPAPORN PIAMSA-NGA / KEIJI NAKATSUJI / CHUKAIT SAPPHAISAL (THAILAND)

B07 STORM WATER MANAGEMENT (III), FLOWS IN WATER SUPPLY PIPE NETWORKS AND HYDRO-MACHINERY (I)

B07-1 AN INTEGRATED APPROACH FOR REHABILITATING THE HYDROLOGIC CYCLE IN AN URBAN WATERSHED, KOREA  DOWN
KIL SEONG LEE / EUN-SUNG CHUNG / YOUNG-OH KIM (KOREA)

[1] [2]



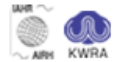


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Technical Sessions Theme C

“Protecting and Restoring the Aquatic Environment - Water Quality and Habitat Challenges”

C01 NATURAL AND MAN-INDUCED MOPHOLOGICAL CHANGE IN RIVERS (I)














- C01-1 A 3D FLOW, SEDIMENT TRANSPORT AND BED TOPOGRAPHY MODEL FOR OPEN CHANNELS [DOWN](#)
JIE ZENG / GEORGE CONSTANTINESCU / LARRY WEBER (USA)
- C01-2 3D CFD MODELLING OF SEDIMENT EROSION IN HABITAT IMPROVEMENT GRAVEL [DOWN](#)
NILS R.B. OLSEN / INGERID PEGG / JEROME MOLLIEX / HANS M. BERGER / HANS-PETTER FJELDSTAD (NORWAY)
- C01-3 EXPERIMENTAL ASSESSMENT OF A MODIFIED RATIONAL REGIME THEORY [DOWN](#)
CYRUS ERSHADI / ERIC M. VALENTINE (AUSTRALIA)
- C01-4 INFLUENCE OF THE MACRO-ROUGHNESS OF A BANK PROTECTION BY RIP-RAP ON BED LOAD TRANSPORT AND LOCAL SCOURING IN RIVER BENDS [DOWN](#)
PH. CHÈVRE / A. J. SCHLEISS (SWITZERLAND)

C02 NATURAL AND MAN-INDUCED MOPHOLOGICAL CHANGE IN RIVERS (II)





- C02-1 SUPERCRITICAL TURBULENT FREE SURFACE FLOW OVER A SEMICIRCULAR OBSTACLE [DOWN](#)
EVAN KOUTANDOS / PANAYOTIS PRINOS (GREECE)
- C02-2 HISTORICAL DEVELOPMENT OF PIER SCOUR HYDRAULICS [DOWN](#)
WILLI H. HAGER / JENS UNGER (SWITZERLAND)
- C02-3 BED CHARACTERISTICS IN 180° CHANNEL BEND WITH LATERAL DIVERSION [DOWN](#)
AMIR AHMAD DEGHANI / MASOUD GHODSIAN / SEYED ALI AKBAR SALEHI NEYSHABOURI / MEHDI SHAFIEEFAR (IRAN)
- C02-4 SEDIMENT TRANSPORT IN KULIM RIVER, MALAYSIA [DOWN](#)
CHUN KIAT CHANG / AMINUDDIN AB. GHANI / NOR AZAZI ZAKARIA / ROZI ABDULLAH (MALAYSIA)
- C02-5 SEDIMENTATION IN POMMEROEUL-CONDE CANAL, BELGIUM. INSTALLATION OF A SEDIMENT INFLOW MEASUREMENT STATION. [DOWN](#)
D. BOUSMAR / J. M. HIVER / Y. ZECH (BELGIUM)

C03 NATURAL AND MAN-INDUCED MOPHOLOGICAL CHANGE IN RIVERS (III)

- C03-1 STUDY OF SEDIMENT TRANSPORT IN THE BIFURCATION OF THE MEZCALAPA RIVER, STATE OF TABASCO, MEXICO [DOWN](#)
LEOBARDO ALEJANDRO / JOSE G. FABIAN RIVERA / PEDRO ANTONIO SANCHEZ / RAFAEL JIMENEZ (MEXICO)

- C03-2** PHYSICAL AND 2D NUMERICAL MODELING OF WAVE FIELD IN THE VICINITY OF GAPS IN BRUSHWOOD FENCES USED AS SOFT SHORE PROTECTION STRUCTURES
SELIM M. SAYAH (SWITZERLAND) 
- C03-3** EFFECT OF FLOOD WAVES ON BRIDGE PIER SCOUR
WILLI H. HAGER / JENS UNGER (SWITZERLAND) 
- C03-4** EFFECT OF SINUOSITY ON HYPORHEIC EXCHANGE IN NATURAL STREAMS AND RIVERS
TAE SUNG CHEONG / BASSAM A. YOUNIS / IL WON SEO (USA) 
- C03-5** PREDICTION OF BEDLOAD TRANSPORT IN GRAVEL-BED RIVERS WITH STABLE ARMOR LAYER
JASNA MUSKATIROVIC / PETER GOODWIN / MARK MOREHEAD (USA) 
- C03-6** ADVANCES IN 3D MODELING OF FREE-FORMING MEANDER FORMATION FROM INITIALLY STRAIGHT ALLUVIAL CHANNELS
NILS RÜTHER / NILS R. B. OLSEN (NORWAY) 
- C04 NATURAL AND MAN-INDUCED MOPHOLOGICAL CHANGE IN RIVERS (IV)**
- C04-1** DETERMINING THE CAUSE OF SCOURING AT SIX SITES AND EVALUATING MAIN-CHANNEL IMPROVEMENTS IN THE LOWER TONE RIVER
SHOJI FUKUOKA / HIROTOSHI TAMURA / HIROSHI TOYODA (JAPAN) 
- C04-2** AN EXPERIMENTAL STUDY OF BANK TOE SCOURING IN BANK-PROTECTION WORKS
CHUNTIAN ZHOU / MINMIN LIU / RENJIAN SHAO / SONGTAO HU (CHINA) 
- C04-3** RIVER PLANFORM CHANGES DUE TO ANTHROPIC INTERACTIONS: A CASE STUDY
LUCA FRANZI / MARCELLO SCHIARA (ITALY) 
- C04-4** INTERACTION BETWEEN WATER SURFACE OSCILLATIONS AND LARGE EDDIES IN AN OPEN CHANNEL WITH SPUR DIKES
TERUNORI OHMOTO / RYUICHI HIRAKAWA / KUNITOSHI WATANABE (JAPAN) 
- C05 NATURAL AND MAN-INDUCED MOPHOLOGICAL CHANGE IN RIVERS (V)**
- C05-1** A NEW METHOD OF DEVELOPING SEDIMENT RATING CURVE FOR THE GANGES RIVER IN BANGLADESH
G.M. TAREKUL ISLAM / SHAHANA AKHTER (BANGLADESH) 
- C05-2** MORPHOLOGICAL EVOLUTION OF STEEP-SLOPED RIVER BEDS IN THE PRESENCE OF A HYDRAULIC JUMP: NUMERICAL AND EXPERIMENTAL ANALYSIS
MOURAD BELLAL / CELINE SAVARY / YVES ZECH (BELGIUM) 
- C05-3** THE VARIATION OF CHANNEL BED BY INSTALLING PIER AT THE CHANNEL JUNCTION
GYE-WOON CHOI / SEONG-JUNE BYEON / YOUNG-KYU KIM (KOREA) 
- C05-4** TAIL BRANCH CHANNEL REGULATION OF IN-LAKE RIVER
LUNCHAO HUANG / XU YUE HU / MEILIN ZHOU (CHINA) 
- C05-5** LARGE EDDY SIMULATION OF OPEN-CHANNEL FLOW OVER A LAYER OF SPHERES
THORSTEN STOESSER / WOLFGANG RODI / JOCHEN FRÖHLICH (GERMANY) 
- C05-6** EFFECTS OF A VEGETATION ZONE ON FLOW AND SCOUR DEPTH AROUND A DOWNSTREAM BRIDGE PIER
TAE HOON YOON / YONG DEUK KIM (KOREA) 
- C05-7** FLOW STRUCTURES AND SEDIMENT DEPOSITION IN CONCAVITY ZONES OF COMPOUND OPEN CHANNELS
AKIHIRO TOMINAGA / JEFUNG JONG (JAPAN) 

C06 NATURAL AND MAN-INDUCED MOPHOLOGICAL CHANGE IN RIVERS (VI)

- C06-1** VALIDATION OF A NUMERICAL MODEL FOR GRADED SEDIMENT TRANSPORT
IN OPEN CHANNELS  DOWN
MINH DUC BUI / PETER RUTSCHMANN (AUSTRIA)
- C06-2** LARGE EDDY SIMULATIONS OF FLOW OVER TWO DIMENSIONAL DUNES  DOWN
THORSTEN STOESSER / WOLFGANG RODI / CEYDA POLATEL /
VIRENDRA C. PATEL / MARIAN MUSTE (GERMANY)
- C06-3** LOCAL SCOUR DOWNSTREAM OF AN APRON FOR INTERMEDIATE TAILWATER
DEPTH CONDITIONS  DOWN
PAOLO ESPA / STEFANO SIBILLA (ITALY)
- C06-4** SUCTION EFFECTS ON RIPRAP PROTECTION AROUND BRIDGE PIERS  DOWN
YEE-MENG CHIEW / YAN LU (SINGAPORE)

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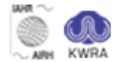


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Technical Sessions Theme D

“Coping with Extremes in Water Resources”

D01 DESIGN OF HYDRAULIC STRUCTURES (I)

- D01-1** SIMULATION OF TURBULENCE FLOWS ON CONCAVE SURFACES OF SPILLWAYS INCLUDING THE EFFECTS OF STREAMLINE CURVATURE [DOWN](#)
WEI WENLI / DAI HUICHAO (CHINA)
- D01-2** CHUTE SPILLWAY FLOW MODELING USING VARIOUS CARTESIAN FLUX CONVECTIONS TECHNIQUES ON OVERLAPPING UNSTRUCTURED FINITE VOLUMES [DOWN](#)
SAEED REZA SABBAGH YAZDI / BABAK AMIN NEJAD (IRAN)
- D01-3** LATERAL CHUTE AND JET IMPACT FOR OGEE SPILLWAY [DOWN](#)
SEYED MAHMOOD BORGHEI / AFSHIN AHMADI (IRAN)

D02 DESIGN OF HYDRAULIC STRUCTURES (II)

- D02-1** EXPERIMENTAL STUDY OF TURBULENCE MANIPULATION IN STEPPED SPILLWAYS. IMPLICATIONS ON FLOW RESISTANCE IN SKIMMING FLOWS [DOWN](#)
CARLOS A. GONZALEZ / HUBERT CHANSON (AUSTRALIA)
- D02-2** EXPERIMENTAL INVESTIGATION OF PRESSURE FLUCTUATIONS ON THE BED OF FLIP BUCKET SPILLWAYS [DOWN](#)
M. A. POURHASAN / M. R. KAVIANPOUR (IRAN)
- D02-3** 3-D NUMERICAL SIMULATION ON UNITED DISSIPATOR OF FLARING GATE PIER AND STEPPED SPILLWAY [DOWN](#)
TING ZHANG / CHAO WU / YAOHUA HU / ZHENGYU MO (CHINA)
- D02-4** PHYSICAL AND 2-D MODELING OF A CURVED AND STEPPED SPILLWAY [DOWN](#)
URSULA STEPHAN / MARINKO NUJIC (AUSTRIA)
- D02-5** PRESSURE HEAD AND RESIDUAL ENERGY IN SKIMMING FLOW ON STEEPLY SLOPING STEPPED SPILLWAYS [DOWN](#)
I. MEIRELES / J. MATOS / J. FALCÃO DE MELO (PORTUGAL)
- D02-6** AIR-WATER FLOW FEATURES IN SKIMMING FLOW OVER STEEPLY SLOPING STEPPED SPILLWAYS [DOWN](#)
FLORIANA M. RENNA / UMBERTO FRATINO / JORGE MATOS (ITALY)

D03 DESIGN OF HYDRAULIC STRUCTURES (III)


- D03-1** HYDRODYNAMIC SIMULATION OF FLOW OVER SPILLWAY USING WEAKLY COMPRESSIBLE FLOW FORMULATION [DOWN](#)
M.R. BHAJANTRI / T.I. ELDHO / P.B. DEOLALIKAR (INDIA)


- D03-2** RESEARCH ON 3D AERATION INFRASTRUCTURE SHAPE OF HIGH-HEAD, LARGE- DISCHARGE SPILLWAY TUNNEL
DONG ZHANG / ZHIPING LIU / JIANBIAO GAO / YONGXIANG FENG / WENXUE CHEN (CHINA) 
- D03-3** STUDY ON THE TYPE OF AERATION BUCKET AERATOR UNDER LOW FROUDE NUMBER SPILLWAY TUNNEL
JIACAI LV / MINGMING LIU / ZONGFU FU (CHINA) 
- D03-4** PREVENTION OF CAVITATION AND WATER-WING FOR MIDDLE-PIERS OF DISCHARGE TUNNELS
JIANHUA WU / CHANGGUANG CAI / WEI JI / SHIPING RUAN (CHINA) 
- D03-5** SELF-ACTION VALVES IN THE SPILLWAY
A. MARGARYAN / V. TOKMAJYAN (ARMENIA) 
- D04 DESIGN OF HYDRAULIC STRUCTURES (IV)**
- D04-1** AIR ENTRAINMENT AND VELOCITY REDISTRIBUTION IN A BOTTOM OUTLET JET FLOW
LUKE TOOMBES / HUBERT CHANSON (AUSTRALIA) 
- D04-2** NUMERICAL INVESTIGATION OF HYDRODYNAMIC FORCE ON OUTLET GATES
A. AGHAKOUCHAK / M. R. KAVIANPOUR / H. R. SADEGHI (IRAN) 
- D04-3** THE EFFECT OF VELOCITY AND FLOW DIRECTION AT APPROACH OUTLET ON DISCHARGE COEFFICIENT OF VERTICAL PIPE INTAKE
S.M.ALI ZOMORODIAN / M.R BAGHERI-SABZEVAR (IRAN) 
- D04-4** BOTTOM RACK INTAKE FOR SUPERCRITICAL STORM FLOW DIVERSION ON STEEP URBAN CATCHMENT
JOSEPH H. W. LEE / DAEYOUNG YU / H. C. CHAN / LANCE GORE / JOHN ACKERS (HONG KONG) 
- D05 DESIGN OF HYDRAULIC STRUCTURES (V)**
- D05-1** HYDRAULIC JUMP AT SLUICE GATE IN NON PRISMATIC INCLINED CHANNEL
J. D. DEMETRIOU (GREECE) 
- D05-2** DEVELOPMENT OF NEW MID-STREAM VELOCITY-CAP TYPE RAW-WATER INTAKE ON THE CHATTAHOOCHEE RIVER, GEORGIA
TATSUAKI NAKATO / A. JACOB ODGAARD (USA) 
- D05-3** MEAN FLOW CHARACTERISTICS OF THREE DIMENSIONAL WALL JETS IN A CROSS-FLOW
B. S. PANI / KAMAL ABBAS MOHAMED ALI (INDIA) 
- D05-4** SOME PROGRESSES OF STUDY ON STRUCTURES WITH HIGH-VELOCITY FLOW
GUIFEN LI (CHINA) 
- D05-5** PRESSURE VARIATION DUE TO SUDDEN RISE OF WATER HEAD AT WATER INLETS
ABDORREZA KABIRI-SAMANI / SEIED MAHMOOD BORGHEI / MOHAMMAD HASSAN SAIDI (IRAN) 
- D05-6** COMPARISON AND SELECTION OF ARCH DAM BUCKET IN SKI-JUMP ENERGY DISSIPATION
YUANTIAN QI / XIBIN HUANG (CHINA) 
- D06 DESIGN OF HYDRAULIC STRUCTURES (VI)**
- D06-1** PRESSURE BEHAVIORS CORRESPONDING TO LEAST AIR CONCENTRATION TO PREVENT CAVITATION EROSION
ZHUYONG DONG / XINMING CAI / CHUNSHENG DING (CHINA) 
- D06-2** THE HORSESHOE VORTEX SYSTEM AROUND A CIRCULAR BRIDGE PIER ON A FLAT BED 

D06-3 EXPERIMENTAL RESEARCH OF VORTEX STRUCTURE OF THE FLOW AROUND A HORIZONTAL CIRCULAR CYLINDER AT VARIOUS GAP-RATIOS IN THE CROSS-FLOW OF SHALLOW WATER 
E-RONG QI / WEI LI / GUO-YA LI / JIAN WU / XIN ZHANG (CHINA)

D06-4 DYNAMIC PRESSURES GENERATED BY PLUNGING JETS IN CONFINED POOLS UNDER EXTREME FLOOD DISCHARGES 
PEDRO A. MANSO / ERIK F. R. BOLLAERT / ANTON J. SCHLEISS (SWITZERLAND)

D07 DESIGN OF HYDRAULIC STRUCTURES (VII)

D07-1 EXPERIMENTAL STUDY OF UNSTEADY TRANSCRITICAL FLOW IN RECTANGULAR CHANNELS 
A. PARVARESH RIZI / S. KOUCHAKZADEH / M. H. OMID (IRAN)

D07-2 TWO-DIMENSIONAL ANALYSIS ON SOLID-LIQUID-PHASE FLOW IN AN OPEN CHANNEL WITH A RUBBLE MOUND GROIN 
KOHJI MICHIOKU / MASASHI NANJO / TAISUKE ISHIGAKI / SHIRO MAENO (JAPAN)

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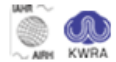


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Technical Sessions

Theme E

“Coastal Development, Dynamics, and Ecosystem Fragility - A Delicate Balance”

E01 FORECASTING AND MITIGATION OF NATURAL AND MAN-MADE COASTAL DISASTERS (I)

- | | | |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| E01-1 | LABORATORY STUDY OF SAND BAR DEVELOPMENT AT A RIVER ENTRANCE
HITOSHI TANAKA / TU TRONG NGUYEN / NAOHIRO WADA (JAPAN) | DOWN |
| E01-2 | A NEW TWO-DIMENSIONAL ANALYTICAL SOLUTION OF GROUNDWATER FLUCTUATIONS IN COASTAL AQUIFER
JING CHEN / ZHIFANG ZHOU (CHINA) | DOWN |
| E01-3 | NUMERICAL SIMULATION OF TWO-DIMENSIONAL FREE-SURFACE FLOW AND WAVE TRANSFORMATION OVER CONSTANT-SLOPE BOTTOM TOPOGRAPHY
AGGELOS S. DIMAKOPOULOS / ATHANASSIOS A. DIMAS (GREECE) | DOWN |
| E01-4 | BREACH EROSION IN CLAY-DIKES
YONGHUI ZHU / P. J. VISSER / J. K. VRIJLING (NETHERLANDS) | DOWN |
| E01-5 | GROUND WATER FLUX AND COASTAL PRODUCTIVITY BLOOM
THRESIAMMA JOSEPH / BALACHANDRAN KRISHNAN / JOSEPH SEBASTIAN PAIMPILLIL (INDIA) | DOWN |

E02 FORECASTING AND MITIGATION OF NATURAL AND MAN-MADE COASTAL DISASTERS (II)

- | | | |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| E02-1 | TRANSFORMATION OF NONLINEAR WAVE GROUPS IN DEEP WATER
WEN-SON CHIANG / HWUNG-HWENG HWUNG / SHIH-CHUN HSIAO (TAIWAN) | DOWN |
| E02-2 | DISPERSION-CORRECTION OF FINITE ELEMENT MODEL FOR SIMULATION OF DISTANT TSUNAMIS
SUNG BUM YOON / CHAE HO LIM / UN IL BAEK (KOREA) | DOWN |
| E02-3 | ANALYSIS OF ABSORPTION EFFECT DUE TO SEDIMENT LAYERS ON DYNAMIC RESPONSE OF DAM-RESERVOIR SYSTEM
INDRANI GOGOI / DAMODAR MAITY (INDIA) | DOWN |
| E02-4 | HYDRODYNAMIC MODELING OF TIDAL CURRENTS IN PERSIAN GULF USING FINITE VOLUME METHOD
SAEED-REZA SABBAGH-YAZDI / ALI KERMANI (IRAN) | DOWN |
| E02-5 | TIDAL PREDICTION IMPROVEMENTS IN ESTUARIES AND COASTAL SEAS
AO CHU / CHANGKUAN ZHANG / JUNLUN ZHANG (CHINA) | DOWN |
| E02-6 | EXPERIMENTAL INVESTIGATION OF OIL SPILL CONTAINMENT BY GRANULES CONTAINED BEHIND A RIGID BARRIER
A. AMINI / E. F. R. BOLLAERT / J. -L. BOILLAT / A. J. SCHLEISS (SWITZERLAND) | DOWN |

E03 FORECASTING AND MITIGATION OF NATURAL AND MAN-MADE COASTAL DISASTERS (III)

- E03-1** RESEARCH ON INCIPIENT MOTION OF ROCK BLOCKS UNDER THE ACTION OF TIDAL BORES 
WEI ZHANG / CHUN-XIN ZHONG / ZHENG-CHAO SHEN (CHINA)
- E03-2** TIDAL REGIME CHANGE DUE TO SIWHA TIDAL POWER PLANT OPERATION IN THE KYUNGGI BAY OF THE YELLOW SEA 
SOK KUH KANG / KI-DAI YUM / KYUNG TAE JUNG / SIN TAEK JEONG / JIN SOON PARK / JAE-KWI SO / CHAN JOO JANG (KOREA)
- E03-3** THE STUDY ON OVERLAPPING BETWEEN FLOOD AND STORM SURGE IN RIVER AND ESTUARY REGION 
MAKOTO TAKEDA / POKHAREL PARAMESHOR / NAOKI MATSUO (JAPAN)
- E03-4** INTERACTION OF NONLINEAR PROGRESSIVE WAVES WITH TWO SERIAL ARRANGED SUBMERGED OBSTACLES 
WEN-CHANG YANG / ROBERT R. HWANG / CHIH-MIN HSIEH / YIH-FERNG PENG (TAIWAN)
- E03-5** TIDAL CURRENT SIMULATION USING THE FORECASTED WEATHER DATA 
WATARU NISHIDA / MASATO NOGUCHI / YOSHITOMO MATSUDA (JAPAN)
- E03-6** JOINT PROBABILITY ANALYSIS OF EXTREME WAVES AND WATER LEVELS AT A TYPHOON INVADED COASTAL REGION 
C. W. LI / Y. SONG (HONG KONG)
- E04 CONSERVATION AND REHABILITATION OF ESTUARINE AND COASTAL ECOSYSTEMS (I)**
- E04-1** VIBRATION OF LONG SPAN GATE BY WAVE ACTION 
KUNIHICO OGIHARA / YUKIHIKO UEDA (JAPAN)
- E04-2** NUMERICAL SIMULATION OF REMOVAL OF TRAPPED SALTWATER FROM A BAR BLOCKED ESTUARY 
MANASA RANJAN BEHERA / K. MURALI (INDIA)
- E04-3** ACOUSTIC DOPPLER VELOCIMETRY (ADV) IN A SMALL ESTUARINE SYSTEM : FIELD EXPERIENCE AND "DESPIKING" 
HUBERT CHANSON / MARK TREVETHAN / SHIN-ICHI AOKI (AUSTRALIA)
- E04-4** SUBMERGED BREAKWATERS AS ARTIFICIAL HABITATS 
CHRISTINA KONTAXI / CONSTANTINE MEMOS (GREECE)
- E05 CONSERVATION AND REHABILITATION OF ESTUARINE AND COASTAL ECOSYSTEMS (II)**
- E05-1** NUMERICAL MODELING OF SEDIMENT TRANSPORT IN THE GULF OF KACHCHH, WEST COAST OF INDIA 
P. C. SINHA / G. K. JENA / A. D. RAO (INDIA)
- E05-2** THE EFFECTS OF SEAWATER EXCHANGE ON THE STRUCTURE OF WATER QUALITY IN ENCLOSED BAY 
HIRONOBU SATO / KENYA TAKAHASHI / NOBUKO KASHIWADATE / MUNEHICO NOMURA / MASAKI SAWAMOTO (JAPAN)
- E05-3** THE EFFECTS OF VEGETATION DENSITY ON WAVE PROPAGATION THROUGH EMERGENT COMMUNITIES 
HITOSHI MIYAMOTO (JAPAN)
- E05-4** HYDRODYNAMIC CHARACTERISTICS OF CURTAIN-WALL-PILE BREAKWATERS 
KYUNG-DUCK SUH / SUNGWON SHIN / DANIEL T. COX (KOREA)
- E05-5** CURRENT THREATS AND FUTURE DEVELOPMENT OF SETIU WETLANDS, MALAYSIA 
ROSNIZA RAMLI / NIK MOHD KAMEL NIK HASSAN / ZALEHA KASSIM (MALAYSIA)
- E05-6** HYDRODYNAMIC ANALYSIS OF COCKLES THRESHOLD MOVEMENT USING LASER TECHNOLOGIES (PIV) 
JOSE ANTA ÁLVAREZ / ENRIQUE PEÑA GONZÁLEZ / FERÓNIMO BUEBTAS ACUDO / VÍCTOR VÁZQUEZ ÁLVAREZ (SPAIN)

E06 COASTAL DYNAMICS AND ITS VULNERABILITY TO CLIMATE CHANGE (I)

E06-1 TIDAL BORE PROCESSES IN THE BAIE DU MONT SAINT MICHEL (FRANCE):
FIELD OBSERVATIONS AND DISCUSSION
HUBERT CHANSON (AUSTRALIA)



E06-2 IMPROVED HYDRODYNAMIC EFFICIENCY OF PONTOON -TYPE FLOATING
BREAKWATERS
THEOHARRIS KOFTIS / PANAYOTIS PRINOS (GREECE)



E06-3 OBLIQUE WATER WAVES IMPACTING ON A THIN POROUS WALL WITH
PARTIAL-SLIPPING BOUNDARY CONDITION
H. J. HSU / L. H. HUANG (TAIWAN)



[1] [2] [3]



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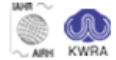
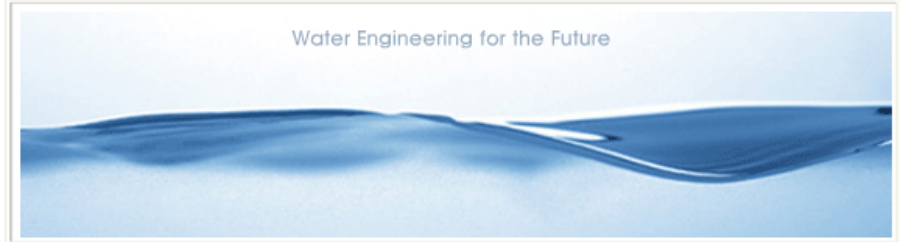


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Water Engineering for the Future



Technical Sessions Theme F

“Freshwater Crisis - Trends, Challenges, and Global Change”

F01 SUSTAINABLE WATER RESOURCES (I)
















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|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| F01-1 | WORLD CONTINENTAL MODELING FOR WATER RESOURCES USING SYSTEM DYNAMICS
TOSHIHARU KOJIRI / TOMOHARU HORI / JUNPEI NAKATSUKA /
TENG-SHENG CHONG (JAPAN) | DOWN |
| F01-2 | SOUTHEASTERN ANATOLIA PROJECT(GAP) IN TURKEY AS A WATER RESOURCES MANAGEMENT
BULENT ACMA (TURKEY) | DOWN |
| F01-3 | ASSESSMENT OF GROUNDWATER VULNERABILITY IN WALAWE RIVER BASIN, SRI LANKA
PRIYANTHA RANJAN / ASHIM DAS GUPTA / SO KAZAMA / MASAKI SAWAMOTO (JAPAN) | DOWN |

F02 SUSTAINABLE WATER RESOURCES (II)

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|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| F02-1 | IMPACTS OF EL NINO AND LA NINA ON FLOW DISCHARGE OF THE YANGTZE RIVER
YI-PING HE / ZHAO-YIN WANG / XIAO-PING XIE (CHINA) | DOWN |
| F02-2 | INTEGRATED WATER AND ECOSYSTEM MANAGEMENT IN AN ATLANTIC REGION OF EUROPE USING STOCHASTIC ANALYSIS AND NUMERICAL MODELING
FRANCISCO L. MARTÍN / EDUARDO GARCÍA / JOSE A. REVILLA /
RAÚL MEDINA (SPAIN) | DOWN |
| F02-3 | STUDY ON FUZZY PRICING MODEL FOR URBAN WATER RESOURCES
RAN-HANG ZHAO / SHENG-LE CHAO / SHI-GUO XU (CHINA) | DOWN |
| F02-4 | SENSITIVITY ANALYSIS OF THE QUANTILES OF TRACER BREAKTHROUGH CURVES IN A ONE AND THREE CONTINUUM MODEL
D. BACHMANN / T. VOGEL / J. KÖNGETER (GERMANY) | DOWN |
| F02-5 | REDUCTION OF DIFFUSE POLLUTION INTO A CLOSED WATER BODY USING CONSTRUCTED WETLAND
SATOMI URA / MASATO NOGUCHI / WATARU NISHIDA / YUICHI SUEMITSU (JAPAN) | DOWN |

F03 SUSTAINABLE WATER RESOURCES (III)





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|-------|-----------------------------------------------------------------------------|------|
| F03-1 | FEASIBILITY ANALYSIS OF CHANGING WATER SOURCE SYSTEM OF MOON-LAKE RESERVOIR | DOWN |
|-------|-----------------------------------------------------------------------------|------|

- F03-2** STUDY ON TRENDS OF FISH RESOURCES IN THE TONLE SAP BASIN - THEIR CORELATION WITH HYDROLOGICAL CONDITIONS OF MEKONG RIVER
SOKHEM PECH / KENGO SUNADA / SATORU OISHI / NAOKI MIYAZAWA / DAISUKE TANAKA (JAPAN) 
- F03-3** NEW STRATEGIES FOR WATER CRISIS IN THE 21ST CENTURY
SHU-QING YANG / IN-SOO KIM (KOREA) 
- F03-4** COMPARATIVE STUDY OF AHP AND MAUT FOR MULTI-CRITERIA DECISIONS IN FLOOD CONTROL PROJECTS
CHOONG SUNG YI / SEUNG AN CHOI / HUNG SOO KIM / MYUNG PIL SHIM (KOREA) 
- F03-5** GUIDING AUSTRALIAN HYDROLOGIC AND HYDRAULIC PRACTICE INTO THE 21ST CENTURY - DEVELOPMENT OF 4TH EDITION OF AUSTRALIAN RAINFALL & RUNOFF
JAMES E. BALL / B. C. PHILLIPS (AUSTRALIA) 
- F03-6** WATER RESOURCES CARRYING CAPACITY AND ITS ASSESSMENT
HONG GAN / LIN WANG / JINJUN YOU / YING YUAN (CHINA) 
- F03-7** PERFORMANCE EVALUATION OF SMALL AND MEDIUM SCALE WATER DEVELOPMENT SCHEMES
A. H. M. FAISAL ANWAR / NANDAN MUKHERJEE (BANGLADESH) 
- F04 SUSTAINABLE WATER RESOURCES (IV)**
- F04-1** ASSESSMENT OF WATER RESOURCES SUSTAINABILITY AT A WATERSHED USING INTEGRATED INDEX
MIN GOO KANG / JEONG KON KIM / GWANG MAN LEE (KOREA) 
- F04-2** NATURAL FEATURE AND USEABLE FEASIBILITY ANALYSIS OF FLOODWATER RESOURCES
SHIGUO XU (CHINA) 
- F04-3** ALTERNATIVE WATER SUPPLY SOURCES AT MIDDLE EAST
IBRAHIM GURER / MEHMET ÜLGER (TURKEY) 
- F04-4** HYDRODIPLOMACY: A GROUND FOR ACTION. TRANSBOUNDARY COOPERATION AND ECONOMIC DEVELOPMENT IN NESTOS RIVER BASIN, GREECE
E. KOLOKYTHA / Y. MYLOPOULOS (GREECE) 
- F05 WATER QUALITY DEGRADATION IN STREAMS AND LAKES**
- F05-1** ON THE SALINITY INTRUSION EMPIRICAL MODELS IN ESTUARIES AND THEIR APPLICATION IN THE BAHMANSHIR ESTUARY.
J. PARSA / A. ETEMED-SHAHIDI / E. JABBARI (IRAN) 
- F05-2** WATER QUALITY AND HYDRODYNAMIC ANALYSIS OF A PARTICULAR LAGOON
G. CIARAVINO / L. CIARAVINO / C. GUALTIERI (ITALY) 
- F05-3** LONG-TERM CHANGE OF STREAM TEMPERATURE: IMPLICATION FOR IMPACT OF ANTHROPOGENIC HEAT INPUT DUE TO URBANIZATION
TSUYOSHI KINOCHI / HIROSHI YAGI / MAMORU MIYAMOTO (JAPAN) 
- F05-4** CONCEPT OF RIVER HEALTH
WENHUI YANG / JIANHUA WU / ZHONGMIN YAN (CHINA) 
- F05-5** MODELLING RIVER WATER QUALITY FROM DIFFUSE SOURCES AT THE CATCHMENT SCALE
J. GANOULIS / K. ZARDAVA / C. KIOURTSIDIS (GREECE) 
- F05-6** ARTIFICIAL RECHARGE IN RIVER BED AT URBAN AREAS (CASE STUDY, KARAJ 

RIVER BASIN)

J. MOZAFARI / H. RAHIMI / M. H. OMID (IRAN)

F06 GLOBAL WARMING AND ECOLOGICAL EFFECTS

- | | | |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| F06-1 | THE EFFECT OF CLIMATE CHANGE ON THE HYDROLOGY AND WATER RESOURCES OF THE YONGDAM DAM BASIN, SOUTH KOREA
BYUNG SIK KIM / HUNG SOO KIM / BYUNG HA SEOH / NAMWON KIM (KOREA) |  |
| F06-2 | RELATIONSHIP BETWEEN ATMOSPHERIC-OCEANIC INDICES AND PRECIPITATION DURING HEAVY RAIN SEASON IN FUKUOKA, JAPAN
ISERI YOSHIHIKO / KAWAMURA AKIRA / JINNO KENJI (JAPAN) |  |
| F06-3 | EFFECT OF STOCHASTIC EVENTS AND FLOW REGIME ON THE DIVERSITY OF BENTHIC FAUNAL COMMUNITIES
TSUCHIYA MITSUKUNI / MOROTA KEIJI (JAPAN) |  |
| F06-4 | ANALYSIS OF RIVER TEMPERATURE BASED ON A HYDROLOGICAL MODEL
J. SHIRAIWA / S. KAZAMA / M. SAWAMOTO (JAPAN) |  |

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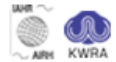


















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Poster Session

PA-1	NUMERICAL STUDY OF FLOW STRUCTURE IN SUBMERGED HYDRAULIC JUMP HUICHAO DAI / LINGLING WANG (CHINA)	DOWN
PA-2	DESIGN AND CONSTRUCTION OF AN EXPERIMENTAL CHANNEL OF HYDRAULICS FOR HIGH FROUDE NUMBERS MANUEL MONTENEGRO FRAGOSO (MEXICO)	DOWN
PA-3	DIRECT CONTROL OF THE GRID POINT DISTRIBUTION IN MESHES GENERATED BY ELLIPTIC EQUATIONS WEI WENLI (CHINA)	DOWN
PA-4	PRINCIPLE OF THE MINIMUM RATE OF ENERGY DISSIPATION IN RIVER DYNAMICS GUOBIN XU / JIJIAN LIAN (CHINA)	DOWN
PA-5	ANALYSIS OF FLOW CHARACTERISTICS IN JUNCTION USING HYDRAULIC MODEL GEE-HYOUNG KIM / GYE-WOON CHOI / YOUNG-KYU KIM (KOREA)	DOWN
PA-6	TOWARD CYBER-MANAGEMENT OF WATER RESOURCES AND WATERSHEDS M. MUSTE / R. ETTEMA / J. SCHNOOR / P. KUMAR / M. HONDZO / R. K. PRICE / P. F. QUINN / W. -F. TSAI (USA)	DOWN
PA-7	APPLICATION OF BOLTZMANN THEORY IN HYDRAULICS JUN HONG LIANG (HONG KONG)	DOWN
PA-8	BPNN BASED WATERWAY TRANSPORT VOLUME PREDICTOR HAI-OU HUANG / WEI ZHANG (CHINA)	DOWN
PA-9	DECISION SUPPORT SYSTEM USING GIS FOR FLOODPLAIN MANAGEMENT OF YEOUJU IN HAN RIVER BASIN, KOREA KWANGSUOP LIM / MANSIK KIM / JINHEE LEE / SUKHWAN JANG (USA)	DOWN
PA-10	OPERATING STRATEGY OF GROUNDWATER DAM UTILIZING A PRECIPITATION-BASED INDEX CHANGKUN PARK / JAEHYEON PARK / YONGSUN CHOI / JEONG-SEOK YANG / KYOCHUL JEONG (KOREA)	DOWN
PA-11	AN ONLINE LAKE AND RESERVOIR INFORMATION SYSTEM ANDREW DUCAS / JÖRG IMBERGER (AUSTRALIA)	DOWN
PA-12	THE EFFECT OF CONNECTIVITY FOR FRACTURED ROCKS ON FLUID FLOW THROUGH FRACTURES YONG HUANG / ZHIFANG ZHOU (CHINA)	DOWN
PA-13	HYDRAULIC SENSITIVITY OF BAFFLEED MODULES DISTRIBUTERS ALI ASGHAR MONTAZAR / SALAH KOUCHAKZADEH / MOHAMMAD H. OMID (IRAN)	DOWN
PA-14	A LINK BETWEEN A WEB BASED HYDROLOGICAL YEARBOOK AND ONLINE DATA FRANÇOIS BOGHEE / OLIVER BRIGOLI / FRANCESCA	DOWN

- PA-15** ROWAS: A RULES-DRIVEN OBJECT-ORIENTED SIMULATION MODEL FOR WATER RESOURCES SYSTEM
JINJUN YOU / HONG GAN / LIN WANG (CHINA) 
- PA-16** VERIFICATION OF A DYNAMIC STREAM WATER QUALITY MODEL
BERNHARD BECKER / HENNING SCHONLAU / DANIEL BACHMANN / JUERGEN KOENGETER (GERMANY) 
- PA-17** SPLIT-SAMPLE TESTING OF CLASSICAL AND ADAPTIVE TIME STEP STORAGE CELL CODES FOR FLOOD MODELLING
NEIL M. HUNTER / PAUL D. BATES / MATTHEW S. HORRITT (UNITED KINGDOM) 
- PA-18** SURFACE WATER GROUNDWATER INTERACTION SIMULATION USING AEM AND PARAMETER ESTIMATION USING GA
H. M. PATEL / T. I. ELDHO / A. K. RASTOGI (INDIA) 
- PA-19** COMPUTER MODELLING DISPERSION PLUME OF TEBAR - PETROBRAS SUBMARINE OUTFALL
RICARDO FORTIS / JAYME PINTO ORTIZ / CLAUDIA CONDE LAMPARELLI / REGIS NIETO (BRAZIL) 
- PA-20** RELIABILITY ANALYSIS OF HYDROLOGICAL TIME SERIES USING NEURAL NETWORKS MODEL 2. UNCERTAINTY ANALYSIS OF INPUT DATA INFORMATION
SUNGWON KIM (KOREA) 
- PA-21** AN EXPERIMENTAL STUDY ON AXIAL FLOW PUMP OPERATED AS A TURBINE MODEL WITH DRAFT TUBE
GERARDO L. AUGUSTO / KOJI KIKUYAMA / LAURENCE A. GAN LIM / YUTAKA HASEGAWA / MARTIN ERNESTO L. KALAW (PHILIPPINES) 
- PA-22** DOUBLE-AVERAGED VELOCITY PROFILE OVER LARGE-SCALE ROUGHNESS
CEYDA POLATEL / MARIAN MUSTE / VIRENDRA C. PATEL / THORSTEN STOESSER / WOLFGANG RODI (USA) 
- PA-23** SPATIAL DECISION SUPPORT SYSTEM FOR IDENTIFICATION OF WATER HARVESTING STRUCTURES USING GIS
B. N. MALLESWARA RAO / N.V. UMAMAHESH (INDIA) 
- PA-24** FLOOD HAZARD MAPPING OF BAGMATI RIVER IN KATHMANDU VALLEY USING GEO-INFORMATICS TOOLS
DILIP K. GAUTAM / RAM G. KHARBUJA (NEPAL) 
- PA-25** WATER QUALITY ANALYSIS ON THE INNERMOST PART OF THE ARIAKE SEA BY USING TERRA-ASTER SATELLITE IMAGES
KOICHIRO OHGUSHI / HIROYUKI ARAKI (JAPAN) 
- PA-26** ASSESSMENT OF CLIMATIC AND HYDROLOGICAL DROUGHT USING RS AND GIS TECHNIQUE ON KOREAN PENINSULA
HYUNG JOONG KWON / SHA CHUL SHIN / SEONG JOON KIM (KOREA) 
- PA-27** A NEW ESTIMATION TECHNIQUE FOR SPACIAL PATTERN OF DELIVERY RATE USING GIS
UNG-YONG KIM / IN-SUNG YEON / SEOK-HWAN YOON (KOREA) 
- PA-28** PIV AND PTV EXPERIMENTAL OBSERVATIONS OF SEDIMENT MOTION INITIATION
J. A. GARCÍA ARAGÓN / K. IZQUIERDO AYALA / H. SALINAS TAPIA (MEXICO) 
- PA-29** CLUSTER VALIDITY ANALYSIS FOR FLOOD CLUSTERING
ZHAOCHENG HOU (CHINA) 
- PB-1** IN-SITU EXPERIMENT OF SNOW-MELTING PIPE SYSTEM CONTROLLED BY INVERTER AT NAGAOKA, JAPAN
YUSUKE FUKUSHIMA (JAPAN) 



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