

## SCIENTIFIC THEMES AND SUB-THEMES

### Themes

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### **THEME A: Engineering and Management of Fresh-water Systems**

**Approach or point of view:** interactions of fluid mechanics with other disciplines: ecology, management, geomorphology.

**LOC Coordinator:** Prof. Giovanni Seminara, University of Genoa, Italy.

**A1.a** Hydrodynamics of lakes and reservoirs (stratification, internal waves, wind forcing, flushing, sluicing, mixing processes)

**A1.b** Hydraulic and ecological interactions (wetlands, flood plains, fluvial biology, habitat, restoration and rehabilitation, vegetation and flow resistance, eutrophication, nutrient cycles, reservoir operations, flood protection, risk in coastal areas, fish passes)

**A1.c** Water resources and river basin management (fluvial basins and land planning, drainage and distribution systems, reservoir regulation, wastewater, arid zones, desertification, conjunctive use of water, integral use and reuse of water, transboundary river basin)

**A1.d** Floods (formation and propagation, control and mitigation, dam break, inundation modelling)

**A2.a** Hydro- and morphodynamics of rivers (bedforms, meandering, braiding, pools and riffles, bank erosion, equilibrium sections, vegetation effects on morphology)

**A2.b** Sediment transport and erosion processes (linear transport, surface erosion, mass movements, reservoir sedimentation, turbidity currents)

**A2.c** Mountain streams and debris flows (overaggradation, inundation control, disaster mitigation, floating debris)

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### **THEME B: Data Acquisition and Processing For Scientific Knowledge and Public Awareness.**

**Approach or point of view:** interaction of hydrology with other disciplines: atmospheric science, soil science, measurements, information theory, economy, law, sociology.

**LOC Coordinator:** Prof. Andrea Rinaldo, University of Padua, Italy.

**B1.a** Land-Water-Atmosphere Interactions (climate change, meteorological/hydrological modelling, precipitation, storms)

**B1.b** Surface hydrology (modelling, parameter estimation, slope

processes, runoff, infiltration, urban hydrology)

**B1.c** Sub-surface hydrology (groundwater flow, modelling, parameter estimation, scales, fractured and heterogeneous aquifers, aquifer pollution and restoration, groundwater - seawater interaction, groundwater management, subsidence and recharge)

**B2.a** Remote sensing techniques and applications (processing, evaluation, implementation of data, coupling with ground-based measurements)

**B2.b** Hydroinformatics (advanced numerical modelling, neural networks, fuzzy logic, evolutionary computing, data mining, data assimilation, data management, SPH)

**B2.d** Economic, legal, social and political aspects of water management (ecological, technological and sociological constraints, decision making, decision support, sustainability, political implications, water crisis, transboundary rivers)

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### **THEME C: Fluid Mechanics and Hydraulics**

**Approach or point of view:** basic fluid mechanics and hydraulics, hydraulic constructions, machinery and experimental devices.

**LOC Coordinator:** Prof. Antonio Cenedese, University of Rome "La Sapienza", Italy.

**C1.a** Fundamentals of turbulence, mixing and dispersion processes (density currents, plumes, jets, wakes, multiphase flows, effects of vegetation)

**C1.b** Localized hydraulic phenomena (local scour, hydraulic jumps, curved channels)

**C1.c** Mathematical (numerical) modeling of complex flow fields (compound channels, steep flows, irregular topography)

**C2.a** Water distribution and drainage networks (irrigation, storm water, sewers, urban drainage)

**C2.b** Hydraulic Structures (dams, spillways capacities and rehabilitation, outfalls, fishways, spur dikes, groynes, weirs, intakes, dissipaters, gates, navigation locks)

**C2.c** Hydraulic machinery (pumps, turbines, propellers)

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### **THEME D: Maritime and Coastal Research and Engineering**

**Approach or point of view:** covering all aspects other than the structural topics of Cs2007: sea and coastal systems, interactions with inland water and other disciplines.

**LOC Coordinator:** Prof. Alberto Lamberti, University of Bologna, Italy. COPRI's Coastal Structures co-chairman.

**D1.a** Hydrodynamics and morphodynamics of coastal systems (littoral, beaches, longshore and crossshore transport, beach nourishment).

**D1.b** Hydrodynamics and morphodynamics of estuarine systems (river mouth deltas, estuaries, lagoons, sea level rise).

**D2.b** Extreme and ordinary events in coastal management (hurricanes, tsunamis, storms, generation, evolution/propagation, effects on the coast, risk analysis, coastal disaster, coastal flooding, integrated coastal-zone management, environmental and water-quality aspects).



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## THEME A1.a

### Hydrodynamics of lakes and reservoirs

#### **3D NUMERICAL MODELING OF FLOW FIELD AND SEDIMENT TRANSPORT IN LABORATORY RESERVOIR FLUSHING PROCESS**

Corresponding Author: Ali Khosronejad



#### **NUMERICAL MODELLING OF DEPTH PROFILES OF CONTAMINATED SEDIMENTS IN A RIVER RESERVOIR BED**

Corresponding Author: George K. Jacoub

Other Author: W. Hu, B. Westrich



#### **LINEAR STABILITY ANALYSIS OF SPATIALLY ACCELERATING STRATIFIED SHEAR FLOWS**

Corresponding Author: Maria Eletta Negretti

Other Author: S.A. Socolofsky, G.H. Jirka



#### **COOLING WATER DISCHARGE INTO THE IMPOUNDMENT RESERVOIR VIENNA-FREUDENAU: EVALUATING DIFFUSER PERFORMANCE AND CORMIX-BASED MIXING SIMULATION**

Corresponding Author: Bernhard Schmid



#### **EVALUATION OF THE EFFECTS OF CAUSEWAY CONSTRUCTION ON URMIA LAKE FRESH WATER CIRCULATION**

Corresponding Author: Saeed Moghimi

Other Author: M. Shafieefar, A. Khosronejad



#### **VERTICAL VS. PLANIMETRIC CIRCULATIONS IN LAKES**

Corresponding Author: Marco Toffolon



#### **STUDY ON LONGITUDINAL DISPERSION COEFFICIENT IN TRAPEZOIDAL CROSS-SECTION OPEN CHANNELS**

Corresponding Author: Yongcan Chen

Other Author: Z. Dejun



#### **INVESTIGATION OF THE HYDRODYNAMICS IN A STRATIFIED LAKE**

Corresponding Author: Anil Caliskan

Other Author: E. Sebnem



#### **SIMILARITY SCALES SELECTION AND EXPERIMENTAL DESIGN OF LARGE-SCALE FLOATING SLUICE HYDRAULIC MODEL**

Corresponding Author: Zong-fu Fu

Other Author: Y. Zhong-Min, L. Jia-Cai



**AN EXPERIMENTAL STUDY OF A TWO-LAYER FLOW ABOVE A SUBMARINE SILL USING PIV**

Corresponding Author: Jose Anta

Other Author: E. Pena, F. Sanchez-Tembleque, J. Puertas



**AN EXPERIMENTAL STUDY ON FLOW CAPACITY IN LIAN-LU HYDROCOMPLEX**

Corresponding Author: Wu Longhua

Other Author: Y. Jianguai, Y. Xiaoli



**POLLUTANT TRANSPORT AND MIXING IN WATER WAVE FIELD**

Corresponding Author: Dekui Yuan

Other Author: L. Binliang, T. Jianhua, S. Jian



**PENETRATIVE CONVECTION IN STRATIFIED FLUIDS: VELOCITY MEASUREMENTS BY IMAGE ANALYSIS TECHNIQUES**

Corresponding Author: Monica Moroni

Other Author: A. Cenedese, V. Dore



**SIMULATION OF TURBULENT FREE SURFACE OBSTRUCTED FLOW WITHIN CHANNELS**

Corresponding Author: Hussain Khalid

Other Author: J. Pu, S. Tait



**GATE OPERATION FOR WATER QUALITY MANAGEMENT IN SEONAKDONG RIVER**

Corresponding Author: Young Do Kim

Other Author: J. Hyun Kwon, J. Hyun Park, J. Hwang



**THREE-DIMENSIONAL NUMERICAL ANALYSIS FOR PREDICTING THE BEHAVIOR OF WATER TEMPERATURE AND TURBIDITY IN A PUMPED STORAGE RESERVOIR**

Corresponding Author: Nozomu Yoneyama

Other Author: M. Inoue, N. Tanaka



**LAKE COMO WEST ARM EXCHANGE PROGRAM PILOT STUDY**

Corresponding Author: Chris Dallimore

Other Author: J. Imberger, D. Copetti, G. Tartari



**ANALYSIS OF WITHDRAWAL CONDITION AND EQUILIBRIUM DEPTH OF STRATIFIED FLOW BY 2-D VERTICAL NUMERICAL MODEL**

Corresponding Author: Chien Jung Liu

Other Author: M.H. Shaohua, L. Ching-Biao



**NUMERICAL SIMULATIONS TO PREDICT THE HYDRODYNAMICS AND THE RELATED MIXING PROCESSES IN WATER STORAGE TANKS**

Corresponding Author: Volker Weitbrecht

Other Author: G.S. Palau, T. Stosser, T. Bleninger, B. Hofmann, M. Maier, K. Roth



**BEST PRACTISE FLUSHING STRATEGY AT THE UPPER RIVER MUR**

Corresponding Author: Helmut Knoblauch

Other Author: H. Badura, J. Schneider



**THE EFFECTS OF A TIME-VARYING SOURCE UPON THE MOTION OF A CONTINUOUS SALINE UNDERFLOW**

Corresponding Author: Rocio Luz Fernandez

Other Author: J. Imberger



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## THEME A1.b

### Hydraulic and ecological interactions

#### **SIGNIFICANCE OF COMPENSATION MEASUREMENTS IN HARMONIZING DEMANDS ON RIVERS**

Corresponding Author: Patt Heinz



#### **HARMFUL ALGAL BLOOMS IN JINHAE BAY OF KOREA**

Corresponding Author: Lee MoonOck

Other Author: K. JongKyu, M. JinHan



#### **A PROPOSAL OF RIVER IMPROVEMENT PROJECT CONSIDERING SPAWNING OF AYU, PLECOGLOSSUS ALTIVELIS ALTIVELIS, IN OSEGAWA RIVER**

Corresponding Author: Yoshiki Shiraishi

Other Author: T. Nagaya, K. Onitsuka, M. Higashino, T. Takami, S. Matoba, J. Akiyama



#### **DESIGN AND IMPLEMENTATION OF A 25 HA WETLAND: BORSTAKARR AT CHRISTINEHOF CASTLE, SCANAIA, SWEDEN**

Corresponding Author: Peter Larsen

Other Author: C. Lindstrom



#### **ABOUT SOME ASPECTS OF LAKE RESTORATION (ON AN EXAMPLE OF GOSH LAKE IN ARMENIA)**

Corresponding Author: Armine Simonyan

Other Author: H. Mikayelyan



#### **DESIGN AND IMPLEMENTATION OF A 25 HA WETLAND: BORSTAKARR AT CHRISTINEHOF CASTLE, SCANIA, SWEDEN**

Corresponding Author: Charlotte Lindstrom

Other Author: P. Larsen



#### **SIMULATION OF FLOW CHARACTERISTICS IN GROUYNE FIELDS USING A PARTICLE TRACING APPROACH**

Corresponding Author: Michael Tritthart

Other Author: M. Liedermann, H. Habersack



#### **A MODELLING APPROACH TO ASSESS ALGAL BLOOM OCURRENCE IN YACYRETA RESERVOIR, ARGENTINA**

Corresponding Author: Angel Menendez

Other Author: P. Garcia, M. Perayre



#### **STEP-POOL RAMPS FOR EPIPOTAMAL RIVERS - EXAMPEL SAALACH**

Corresponding Author: Michael Hengl

Other Author: H. Korger, N. Krouzecky



**ASSESSMENT MODEL FOR RIVERBANK ECOLOGICAL PROTECTION WORK OF PLAIN RIVERS**

Corresponding Author: Ruihua Shi



**ASSESSMENT MODEL FOR RIVERBANK ECOLOGICAL PROTECTION WORK OF PLAIN RIVERS**

Corresponding Author: Shiguo Xu



**RESTORATION OF DREDGED FOREST STREAMS: FROM A MONOTONOUS TOWARD A HETEROGENEOUS STATE?**

Corresponding Author: Ari Huusko

Other Author: P. Korhonen, T. Yrjana



**INTEGRATING GIS AND MATHEMATICAL MODELING**

Corresponding Author: Ioana Popescu

Other Author: A. Azab



**ARTIFICIAL STEP-POOL SYSTEM FOR ECOLOGICAL RESTORATION OF A DEBRIS-FLOW RAVINE**

Corresponding Author: Guo-an Yu

Other Author: W. Zhao-yin, D. Xuehua, Z. Kang



**A STUDY ON MULTIPLICATION OF PHYTOPLANKTON UNDER OPERATION OF NAGARA RIVERMOUTH BARRAGE**

Corresponding Author: Takeshi Takemura

Other Author: J. Maruyama, M. Nakai, M. Arita



**SAND BAR LANDSCAPE AND ROLE OF VEGATATION AND SUBSURFACE FLOW ON ECOSYSTEM SERVICE**

Corresponding Author: Tetsuro Tsujimoto

Other Author: T. Katakai, T. Sumi



**ANALYSIS OF THE RE-OXIGENATION PROCESS IN WATER STREAMS**

Corresponding Author: Paolo Veltri

Other Author: A. Fiorini Morosini, G. Maradei, B.M. Verbeni



**EVALUATING FUNCTIONALITY AND SUSTAINABILITY OF RIVER WIDENINGS AT THE KAMP RIVER /AUSTRIA CONCERNING TO FLOOD PROTECTION AND AQUATIC ECOLOGY INCLUDING A NUMERICAL SENSITIVE TEST**

Corresponding Author: Christoph Hauer

Other Author: B. Schober, H. Habersack



**SEASONAL CHANGES OF FEEDING BEHAVIOR OF AYU, PLECOGLOSSUS ALTIVELIS ALTIVELIS**

Corresponding Author: Takayuki Nagaya

Other Author: K. Onitsuka, Y. Shiraishi, M. Higashino, T. Takami, S. Matoba, J. Akiyama, H. Ozeki, Y. Akaki



**EFFECT OF THE VERTICAL STRUCTURE OF A POROUS BED ON HYPORHEIC EXCHANGE**

Corresponding Author: Mattia Zaramella

Other Author: A. Marion, A. Packman, A. Bottacin



**RELATIONSHIPS BETWEEN WATER QUALITY, LAND USE AND STREAM INVERTEBRATES COMMUNITIES IN KOBE**

Corresponding Author: Gozo Tsujimoto

Other Author: T. Kakinoki, M. Tamai



**EFFECTIVENESS OF INSTALLED LARGE WOODY DEBRIS FOR PROVIDING HYDRAULIC DIVERSITY**

Corresponding Author: Mark C. Stone

Other Author: M.E. Barber



**COMBINING FIELD MEASUREMENTS AND LABORATORY EXPERIMENTS IN RIPARIAN REHABILITATION STUDIES**

Corresponding Author: Sam Gorrick



Other Author: F.J. Rodriguez, J. Kalma

**MATHEMATICAL MODELLING OF CONTAMINANT PROPAGATION IN NATURAL AND ARTIFICIAL FREE SURFACE NETWORKS**

Corresponding Author: Carmela Mucherino

Other Author: A. Palumbo, D. Pianese



**ECOHYDROLOGICAL INTERACTIONS BETWEEN SUBSURFACE FLOW AND VEGETATION IN TIDAL ENVIRONMENTS**

Corresponding Author: Marco Marani

Other Author: O. Tosatto, A. Comerlati, M. Putti



**PATZCUARO LAKE, A SPRING MADE WATER BODY**

Corresponding Author: Luis Emilio Rendon

Other Author: X. Li , M. Lara



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## THEME A1.c

### Water resources and river basin management

#### **MAXIMIZING RESERVOIR YIELD IN AN ARID REGION**

Corresponding Author: David Stephenson



#### **STUDY ON THE BIODEGRADATION RATE IN RIVERS**

Corresponding Author: Lin Luo

Other Author: M.J. Wang



#### **SWIMER - SUSTAINABLE WATER INTEGRATED MANAGEMENT OF THE EAST ROUTE- RESULTS OF THE DIVERSION IMPACTS ON THE WATER RESOURCES**

Corresponding Author: Julien Lecollinet

Other Author: Y.J.Jun, J.Yangwen, C.Niu, H.Gan, N. Moschini, A.Pretner , M. Gonella , H. Shen, Y. Li



#### **RISK ASSESSMENT OF OPTIMAL RESERVOIR OPERATING POLICIES FOUND BY MONTE CARLO OPTIMIZATION AND ARTIFICIAL INTELLIGENCE**

Corresponding Author: Camilo Allyson Simoes Farias

Other Author: Suzuki Koichi, Kadota Akihiro, C.B. Alcigeimes



#### **INVESTIGATION OF AERATED SIPHON**

Corresponding Author: Detlef Aigner

Other Author: H.B. Horlacher



#### **ANALYSIS OF ARTIFICIAL INFLUENCE FACTORS ON WATER CYCLE IN TAIZI RIVER BASIN**

Corresponding Author: Wensheng Li

Other Author: X. Shiguo



#### **FUZZY OPTIMIZATION MODEL FOR ALLOCATING ALLOWABLE DISCHARGED T-N LOAD TO POINT AND NONPOINT SOURCES**

Corresponding Author: Shigeya Maeda

Other Author: T. Kawachi



#### **SUSTAINABLE WATER RESOURCES PLANNING FOR INTEGRATED WATERSHED MANAGEMENT IN AN URBAN STREAM**

Corresponding Author: Eun-Sung Chung

Other Author: L. Kil Seong, Y. Chin Chae, K. Ki Seo



#### **THE DYNAMIC BALANCE IMPUTATION OF SYNERGETIC WATER POLLUTION CONTROL**

Corresponding Author: Ruidong An





**OPTIMIZING ECO-ECONOMIC STRUCTURE IN THE NORTHWEST GULLY LOESS PLATEAU OF CHINA**

Corresponding Author: Zhou Zhenmin

Other Author: W. Tiehu, W. Liyan



**INFLUENCE OF WATER RESOURCES DEVELOPMENT AND UTILIZATION ON ECO-ENVIRONMENT OF THE DOWNSTREAM OF YELLOW RIVER**

Corresponding Author: Zhou Zhenmin



**APPLICATION OF MONTE CARLO METHOD IN RECHARGE CALCULATION OF UNDERGROUND WATER RESOURCES**

Corresponding Author: Zhou Zhenmin



**EVALUATION OF HEAVY METAL'S POLLUTION EFFECTS ON THE SEDIMENT / WATER / AQUATIC PLANTS IN POYANG LAKE**

Corresponding Author: X Gong

Other Author: J. Minfei, C. Chunli



**RESERVOIR REGULATION OF RUNOFF IN DAMS, WEIRS OR CASCADES WITH A VIEW TO HYDRO POWER PLANT OPERATION**

Corresponding Author: Nikola Nikolov



**DESALINATION: A SOLUTION TO WATER SHORTAGE OR NOT**

Corresponding Author: Yurdagul Kumcu

Other Author: B. Cinar



**CONTRASTING APPROACHES IN SEDIMENT MANagements ALONG RIVERS IN PIEMONTE (ITALY)**

Corresponding Author: Luca Franzi

Other Author: G. Bianco



**STRATEGIC PLANNING OPTIMIZATION OF 'NAPOLI EST' WATER DISTRIBUTION SYSTEM**

Corresponding Author: Maurizio Giugni

Other Author: N. Fontana, D. Romanelli, D. Portolano



**INTEGRATED ASSESSMENT OF WATER QUANTITY AND QUALITY IN THE YELLOW RIVER BASIN**

Corresponding Author: Yangwen Jia

Other Author: N. Cunwen, W. Hao



**METHODOLOGY OF RIVER POLLUTION ASSESSMENT AND PRELIMINARY RESULTS**

Corresponding Author: Yannopoulos C. Panayotis

Other Author: D.I. Manariotis, I.A. Ziogas, V. K. Kaleris



**PREDICTION OF T-N RUNOFF LOADS FROM DIFFUSE POLLUTION UTILIZING POLLUTANTS RATING CURVE**

Corresponding Author: Masato Noguchi

Other Author: N. Wataru, S. Suzuki, Y. Suemitsu, T. Ohta, Y. Itoh, M. Nishikawa



**USE OF MATRIX ANALYSIS AND GIS FOR RIVER CORRIDORS IDENTIFICATION: THE CASE OF THE TAGLIAMENTO RIVER**

Corresponding Author: Francesco Baruffi

Other Author: M. Bisaglia, M. Ferri, R. Ottoboni, N. Surian



**MATHEMATICAL SIMULATION OF CONTAMINANT TRANSPORT IN WATER DISTRIBUTION SYSTEM**

Corresponding Author: Domenico Pianese

Other Author: C. Musella, C. Palma



**EXPERIMENTAL RESEARCHES ON WATER RECIRCULATION FOR IRRIGATION AND ENVIRONMENTAL PURPOSES**

Corresponding Author: Vincenzo Bixio

Other Author: G.M. Carrer



**RAINFALL RUNOFF FORECASTING SYSTEM FOR BASIN WATER RESOURCES  
MANAGEMENT IN KOREA**

Corresponding Author: Hwan Ko Ick  
Other Author: M. Ha Hwang, W. Jeong



**FLOW CHARACTERISTICS IN THE STREAM BY INSTALLING**

Corresponding Author: Gye Woon Choi  
Other Author: P. Sang Woo, K. Young Kyu, H. Man Shin



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## THEME A1.d

### Floods

#### **SIMULATION OF DAM-BREAK FLOW USING A DEPTH-AVERAGED 2-D MODEL**

Corresponding Author: Wu Weiming

Other Author: S.S.Y. Wang



#### **DIKE BREAK PREVENTION AS THE PROCESS OF FLOODING PROTECTION**

Corresponding Author: Zuzana Boukalova

Other Author: B. Vojtech



#### **APPLICATION OF STORAGE FUNCTION METHOD WITH SCS ABSTRACTION METHOD**

Corresponding Author: Yoon Kanghoon

Other Author: K. Taegyun



#### **CREATIVE FLOOD PROTECTION DESIGNS IN AN URBAN ENVIRONMENT**

Corresponding Author: Bianca Stalenberg

Other Author: H. Vrijling



#### **THE FLOOD DISASTER CAUSED BY T0514 AND MEASURES TO MINIMIZE FUTURE DISASTERS IN MIYAZAKI, JAPAN**

Corresponding Author: Satoru Sugio

Other Author: K. Murakami



#### **ST.PETERSBURG FLOOD PROTECTION BARRIER:DESIGN AND ECOLOGICAL FEATURES**

Corresponding Author: Rosa Mikhailenko

Other Author: I. Yesin



#### **ON RIVER-BED VARIATION MECHANISM IN STEEP BRIDED CHANNELS AND A METHOD TO CALCULATE INUNDATION DISCHARGE HYDROGRAPH DUE TO DIKE BREACH**

Corresponding Author: Shoji Fukuoka

Other Author: A. Tomonori



#### **SIMULATION OF DAM-BREAK WAVES ON DRY BED BY LAGRANGIAN BLOCK METHOD**

Corresponding Author: Vincent H. Chu

Other Author: C. Pinilla, L. Wai Tan



#### **TESTING A SIMPLIFIED BREACH MODEL ON IMPACT PROJECT TEST CASES**

Corresponding Author: Andre Paquier



### **MODELING BREACH GROWTH IN CLAY-DIKES**

Corresponding Author: Yonghui Zhu

Other Author: P. Visser, H. Vrijling



### **A NEW INDEX ABOUT DROUGHT AND FLOOD**

Corresponding Author: Yanshu Rong

Other Author: J. Yu, Q. Tu



### **TWO-DIMENSIONAL MATHEMATICAL MODELLING OF FLOODING OVER ERODIBLE SEDIMENT BED**

Corresponding Author: Zhixian Cao

Other Author: Y. Zhiyuan, L. Xin, C. Tao



### **PHYSICAL AND NUMERICAL MODELING OF A RIVER CONFLUENCE RESHAPING**

Corresponding Author: Maria Giovanna Tanda

Other Author: M. D'Oria



### **RESERVOIR FLOOD CONTROL CAPACITY AND FLOOD ROUTING IMPACTS ON DOWNSTREAM FLOOD HAZARD REDUCTION, CASE STUDY: GORGANROOD RIVER & GOLESTAN DAM IN IRAN**

Corresponding Author: Ali M. Pourhasan

Other Author: M.R.M. Tabatabai, M.R. Kavianpour, B. Bozorgy



### **EXPERIMENTAL AND NUMERICAL STUDY OF THE BREACHING OF AN EMBANKMENT DAM**

Corresponding Author: Benjamin Dewals

Other Author: P. Archambeau, S. Ercicum, M. Pirotton



### **ANALYSIS AND APPLICATION OF TWO COMPLEMENTARY NUMERICAL MODELS FOR PREDICTING FLOOD WAVES GENERATED BY FAILURES OR DYSFUNCTIONS OCCURRING ON A COMPLEX OF DAMS**

Corresponding Author: Benjamin J. Dewals

Other Author: S. Ercicum, P. Archambeau, S. Detrembleur, M. Pirotton



### **LINEAR APPROXIMATION OF OPEN-CHANNEL FLOW ROUTING WITH BACKWATER EFFECT**

Corresponding Author: Simon Munier

Other Author: X. Litrico, G. Belaud



### **FLOOD RISK ASSEMENT USING ADJOINT SENSITIVITY ANALYSIS**

Corresponding Author: Hossam Elhanafy

Other Author: G.J.M. Copeland



### **EXTREME FLOODS AND INTEGRATED FLOOD MANAGEMENT**

Corresponding Author: Helmut Michael Habersack

Other Author: J. Burgel, H. Stiefelmeyer, G. Krapesch



### **THE SHIFT CHARACTERISTICS OF THE RAINFALL IN SOUTH KOREA**

Corresponding Author: Won Kim

Other Author: K. Chiyong, O. Jeseung



### **SPEED OF LONG WAVE IN CHANNEL WITH TRIANGULAR CROSS-SECTION**

Corresponding Author: Sergei Sokolov



### **TWO-STAGE MODEL OF MOUNTAIN RESERVOIR FLOOD ROUTING**

Corresponding Author: Guang Li Xu

Other Author: B. De Wang



### **OPTIMAL DESIGN OF EVACUATION ROUTE AUGMENTATION AGAINST FLOOD DISASTERS - AN OPTIMIZATION ALGORITHM FOR A DESIGN PROBLEM WITH HIGH-LOAD 2D SIMULATION -**

Corresponding Author: Tomoharu Hori

Other Author: M. Shiiba



### **EMPIRICAL FORMULA FOR PROPAGATION DISTANCE OF FLOOD WAVE-FRONT IN FLAT INUNDATION AREA WITHOUT STRUCTURE DUE TO LEVEE BREACH**



Corresponding Author: Kwang Seok Yoon  
Other Author: L. Jong-kyu

**FORESTS AND AUXILIARY LEVEES FOR FLOOD DAMAGE PROTECTION IN THE MIDSTREAM OF THE KASE RIVER**

Corresponding Author: Koichiro Ohgushi  
Other Author: K. Ikeda, H. Araki



**SPATIAL PATTERN AND PREDICTING FACTOR OF FLOOD AND DROUGHT YEAR OF NORTH CHINA**

Corresponding Author: Yanshu Rong  
Other Author: Y. Jinhua



**EXPERIMENTAL STUDY ON INFLUENCE OF LEVEE BREACH DEPTH ON FLOOD WAVE PROPAGATION IN INUNDATION AREA**

Corresponding Author: Yoon Kwang Seok



**A SIMPLE METHODOLOGY FOR THE DAM-BREAK WAVE EVALUATION**

Corresponding Author: Paolo Mignosa  
Other Author: F. Aureli, A. Maranzoni , C. Ziveri



**1-D MORPHODYNAMIC SCHEME FOR NUMERICAL MODELING OF SIDE WEIR FLOW**

Corresponding Author: Giulio Bechi  
Other Author: M. Catella, E. Paris



**APPLICATION OF THE SYNTHETIC HYDROGRAPH METHOD TO SOME CASE STUDIES**

Corresponding Author: Massimo Tomirotti  
Other Author: U. Majone, P. Mignosa



**IMPORTANCE OF INFORMATION DISSEMINATION FOR FLOODS PREVENTION AND/OR MITIGATION**

Corresponding Author: Seiji Suzuki  
Other Author: N. Masato, E. Shinya, Y. Kitajima



**NUMERICAL MODELLING OF LANDSLIDE-GENERATED WAVES**

Corresponding Author: Hsu Chiang-An



**RIVER BRENTA DEFENCE BY CONTROLLED FLOODING**

Corresponding Author: Andrea Braidot



**RIVER BRENTA DEFENCE BY CONTROLLED FLOODING**

Corresponding Author: Michele Ferri



**A SIMPLIFIED APPROACH FOR FLOOD ATTENUATION RESERVOIR DESIGN**

Corresponding Author: Carmine Covelli  
Other Author: L. Cozzolino, D. Pianese



**A COMPARISON BETWEEN A 1D- AND A 2D-NUMERICAL MODELLING OF A LOCAL RIVER WIDENING**

Corresponding Author: Roland Faeh



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## THEME A2.a

### Hydro and morphodynamics of rivers

#### **COMPARISON OF BED LOAD FORMULAE IN HYDRAULIC GEOMETRY USING SIMILARITY PRINCIPLE**

Corresponding Author: Levent Yilmaz



#### **THE LOGARITHMIC LAW FOR FLOWS OVER LARGE RELATIVE ROUGHNESS**

Corresponding Author: Wlodzimierz Czernuszenko



#### **CHARACTERISTIC SCALES IN GRAVEL-BED RIVERS AND THE DESCRIPTIVE POTENTIAL OF FRACTAL GEOMETRY**

Corresponding Author: Athanasios (Thanos) Papanicolaou

Other Author: A. Tsakiris



#### **FLUVIAL EROSION OF COHESIVE RIVER BANKS**

Corresponding Author: Athanasios (Thanos) Papanicolaou

Other Author: M. Elhakeem



#### **CHANNEL EVOLUTION OF THE SLIGHTLY CURVING AND MULTI-BRANCHED RIVER REACH IN THE MIDDLE REACH OF YANGTZE RIVER**

Corresponding Author: Ling Jiang

Other Author: L. Yitian, Z. Wei



#### **APPROACHES TO MANAGING CHANNEL-CONFLUENCE ALIGNMENTS**

Corresponding Author: Robert Ettema



#### **A MODEL OF RIVER BANK STABILITY ANALYSIS**

Corresponding Author: Ebrahim Amiri-Tokaldany

Other Author: A. Samadi



#### **FLUME INFLUENCE ON DEVELOPING DUNE BEDS**

Corresponding Author: Heide Friedrich

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#### **BED FORM CHANGES IN PRESENCE OF A LATERAL OVERFLOW**

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#### **LEARNING FROM THE PAST TO IMPROVE THE FUTURE. AN EX-POST ANALYSIS OF THE GERMAN UPPER RHINE**

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**NUMERICAL STUDY ON THE BED EVOLUTION PROCESS OF CHANNELS WITH COMPLEX GEOMETRIES**

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**USE OF A 1-D SEDIMENT TRANSPORT MODEL TO SIMULATE EVOLUTION OF RIVER BED**

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**TURBULENCE STATISTICS AND STRUCTURES BY LARGE-EDDY SIMULATION OF OPEN-CHANNEL SUB-CRITICAL FLOW OVER BED DUNE**

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**MODELING THE HYDROLOGIC AND MECHANICAL EFFECTS OF RIPARIAN VEGETATION ON STREAMBANK STABILITY**

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**INFLUENCE OF OUTER-BANK ROUGHNESS ON FLOW PATTERNS IN OPEN-CHANNEL BENDS**

Corresponding Author: Alexandre Duarte  
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**HIGH RESOLUTION MONITORING AND PREDICTION OF INUNDATION DYNAMICS IN BRAIDED RIVER (THE TAGLIAMENTO RIVER, ITALY)**

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**ON THE TIME OF DEVELOPMENT OF THE BED OF ALLUVIAL MEANDERING STREAMS**

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**SECONDARY FLOW STRUCTURES IN A DOUBLY MEANDERING COMPOUND CHANNEL UNDER UNSTEADY FLOW CONDITION**

Corresponding Author: Islam G.M. Tarekul  
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**WEIR RELOCATION FOR IMPROVEMENT OF GEUM RIVER SCENERY AND RIVER BED RESTORATION**

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**3D NUMERICAL SIMULATION OF FLOW AND SEDIMENT TRANSPORT IN A S-SHAPED OPEN CHANNEL**

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**BED LOAD SHEETS AND BED LOAD FLUCTUATIONS IN GRAVEL BED EXPERIMENTS**

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**EXPERIMENTAL ANALYSIS OF THE FORMATION OF STEP-POOL SEQUENCES**

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**MODELING OF SEDIMENT DEPOSITION IN A PARTLY VEGETATED OPEN CHANNEL**

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**ANALYSIS OF THE EFFECT OF SINUOSITY IN THE DISCHARGE CAPACITY OF MEANDERING COMPOUND CHANNELS**



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**A FIELD EXPERIMENT TO REMOVE THE FORCING ELEMENT FROM A RIFFLE-POOL**

Corresponding Author: Bruce MacVicar  
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**ANALYSIS OF THE ROLE OF TURBULENT STRUCTURE IN BED-FORMS FORMATION IN A RECTILINEAR FLUME**

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**TURBULENCE STATISTICS OVER ROUGH BED**

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**SECONDARY CIRCULATION MOTION IN THE APEX SECTION OF A LARGE AMPLITUDE MEANDERING FLUME**

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**ANALYSIS OF TWO-DIMENSIONAL TURBULENCE FLOW IN CHANNEL WITH SUDDEN EXPANSION BY USING CELL CENTRE FINITE VOLUME METHOD**

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**ONE DIMENSION CRITERIA FOR VELOCITY REVERSAL OCCURRENCE**

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**MODELLING INTERACTIONS BETWEEN FLUVIAL EROSION AND MASS FAILURES IN COHESIVE RIVERBANKS**

Corresponding Author: Laura Luppi  
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**HYDRAULIC MODELING OF AN ANABRANCHED RIVER REACH: RIFFLE-POOL REVERSAL AND MAINTENANCE MECHANISM DURING A FLOOD EVENT**

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**THE EFFECT OF VEGETATION ALONG FLOODPLAIN EDGES ON FLOW PARAMETERS IN COMPOUND MEANDERING CHANNELS**

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**INFLUENCE OF BEND ORIENTATION ON THE HYDRODYNAMICS OF MEANDERING CHANNELS: EXPERIMENTAL AND NUMERICAL WORK**

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**A NON LINEAR MODEL FOR EQUILIBRIUM BED TOPOGRAPHY IN MEANDERING CHANNELS**

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**CHANGES OF MORPHODYNAMIC REGIME IN EVOLVING MEANDERING RIVERS**

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**THE INITIATION OF AVULSIONS - MECHANISM AND CASE STUDY**

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## THEME A2.b

### Sediment transport and erosion processes

#### **EFFECT OF BEDLOAD MOVEMENT ON SUPERCRITICAL FLOW RESISTANCE IN RIGID BOUNDARY CHANNELS**

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#### **A SLOPE-ADJUSTABLE PLOT FOR MODELING INTERRILL EROSION**

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#### **INSTABILITY OF ARMoured RIVER AND SEA BEDS DUE TO WATER SOIL INTERACTION REGARDING PARTLY SATURATED SUBSOIL CONDITIONS**

Corresponding Author: Thomas Wenka

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#### **THE INFLUENCE OF THE GRAIN SIZE DISTRIBUTION OF UNIMODAL AND BIMODAL SEDIMENTS ON THE RESISTANCE OF CHANNELS WITH AN ALLUVIAL BED**

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#### **EROSIONAL STABILITY OF SEDIMENT DEPOSITS IN HAMILTON HARBOUR, CANADA**

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#### **SEDIMENT TRANSPORT CAPACITY OF PRESSURE FLOW AT BRIDGES**

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#### **SAND MOVEMENT OVER A GRAVEL-BED WITH DISTINGUISHABLE ISOLATED ROUGHNESS ELEMENTS**

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#### **MODELLING SEDIMENT TRANSPORT IN RECTANGULAR CHANNELS USING A DEPTH-AVERAGED APPROACH**

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#### **THREE-DIMENSIONAL NUMERICAL MODELING OF CONTRACTION SCOUR**

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**EFFECT OF SUCTION ON BEDLOAD TRANSPORT RATE**

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**MODELING SEDIMENT TRANSPORT USING RELEVANCE VECTOR MACHINE**

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**ANALYSIS OF THE SOLID DISCHARGE BEHAVIOR IN THE BIFURCATION OF A RIVER, CASE STUDY**

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**FINITE VOLUME SOLUTION OF DEPTH-AVERAGED SEDIMENT TRANSPORT MODELLING USING UNSTRUCTURED MESHES**

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**NUMERICAL SIMULATION OF UNSTEADY MOBILE-BED HYDRODYNAMICS, WITH APPLICATION TO MONDEGO RIVER**

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**SUSPENDED SEDIMENT RIVERINE LOADINGS TO CORK HARBOUR, IRELAND**

Corresponding Author: Joe Harrington  
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**LIMIT ROLLING ENTRAINMENT CONDITION OF SEDIMENT BED PARTICLES AT HIGH SLOPES**

Corresponding Author: Carlo Gregoretti  
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**SEDIMENTATION IN STORM-WATER TANKS: BED SHEAR STRESS VERSUS BED TURBULENT KINETIC ENERGY**

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**DELTA PROCESSES AND FIELD MEASUREMENTS STRATEGIES IN MEXICO**

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**LAMINAR FLOW OF A HERSCHEL-BULKLEY FLUID IN CHANNELS OF FINITE WIDTH**

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**SOIL EROSION AND SEDIMENT YIELD MODELLING OF WATERSHED USING FEM, REMOTE SENSING AND GIS**

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**CRITICAL BED -SHEAR STRESS AND BED DEFORMATION OF HEAVY SEDIMENT UNDER STEADY CURRENTS AND WAVES**

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**SEDIMENT EROSION AT AN UPSTANDING STEP CHANGE IN BED LEVEL**

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**NEAR-BED FLOW FIELD MEASUREMENTS AT THRESHOLD OF SEDIMENT MOTION**

Corresponding Author: Andrea Marion  
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**IDENTIFICATION OF THE TRUE NATURE OF COMMONLY USED SEDIMENT TRANSPORT EQUATIONS**

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**ON STATISTICAL SAMPLING DISTRIBUTION IN EXPERIMENTAL BONIS RIVER BASIN (SILA GRECA - CALABRIA - ITALY)**

Corresponding Author: Giuseppe Frega

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**SEDIMENT TRANSPORT IN RIVERS WITH GROUYNE FIELDS: A 1D MULTI-STRIP MODEL APPROACH**

Corresponding Author: Sandra Prohaska

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**DRAG COEFFICIENT FOR PARTICLES SETTLING IN FLUIDS IN MOTION; EXPERIMENTAL OBSERVATIONS**

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**EXPERIMENTAL OBSERVATIONS ON SEDIMENT MOTION UNDER WEAK ONE-DIMENSIONAL BED LOAD**

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**SIMULATING THE PROFILE EVOLUTION OF LARGE UNSURVEYED RIVERS: THE CASE OF ZAMBEZI (AUSTRAL AFRICA)**

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**DETERMINATION OF PARAMETERS FOR VENTING TURBIDITY CURRENTS THROUGH A RESERVOIR**

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**ON RESUSPENSION PHENOMENA OF BENTHIC SEDIMENTS: THE ROLE OF COHESION AND BIOLOGICAL ADHESION**

Corresponding Author: Maurizio Righetti

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**A CONCEPTUAL MODEL OF SEDIMENT ROUTING AND SEDIMENT DELIVERY RATIO, THEORY AND APPLICATION IN TUSCANY**

Corresponding Author: Enrica Caporali

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**KINEMATICS AND PORE PRESSURE DYNAMICS IN AERATED GRANULAR FLOWS**

Corresponding Author: Santiago Montserrat

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**MODELING OF FLOODPLAIN SEDIMENTATION ON THE HUNGARIAN TISZA**

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**EROSIONAL STABILITY OF SEDIMENT DEPOSITS IN HAMILTON HARBOUR IN CANADA**

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## THEME A2.c

### Mountain streams and debris flows

#### **DEVELOPMENT OF 'KANAKO', A WIDE USE DEBRIS FLOW SIMULATOR EQUIPPED WITH GUI**

Corresponding Author: Kana Nakatani  
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#### **EMPIRICAL RELATIONSHIPS FOR DEBRIS-FLOW DEPOSITED VOLUMES: A CASE STUDY IN TAIWAN**

Corresponding Author: J. C. Chen



#### **SIMILARITY OF DEBRIS FLOW AND IMPORTANT NON-DIMENSIONAL PARAMETERS**

Corresponding Author: Takahiro Itoh  
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#### **ON ASSESSING THE POTENTIAL FOR DEBRIS FLOWS TO DAMAGE PIPELINE RIVER CROSSINGS**

Corresponding Author: Roger Bettess  
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#### **FRICTIONAL-COLLISIONAL INTERMITTENCY IN LIQUID-GRANULAR FLOWS**

Corresponding Author: Michele Larcher  
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#### **A THEORETICAL AND EXPERIMENTAL STUDY ON CHARACTERISTICS OF ROLL WAVES IN VISCOUS FLOW WITH SOLID PARTICLES**

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## THEME B1.a

### Land-Water-Atmosphere interactions

#### **ESTIMATING MISSING VALUES OF DAILY RAINFALL USING CLASSIFICATION TECHNIQUES**



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#### **TREND AND OSCILLATIONS IN THE ICE COVER DURATION OF LAKE MENDOTA, WISCONSIN**



Corresponding Author: Hector R. Bravo

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#### **REGIONAL IMPACT ASSESSMENTS OF CLIMATE CHANGE ON WATER RESOURCES BY USING HIGH RESOLUTION SCENARIO AND STOCHASTIC WEATHER GENERATOR IN KOREA**



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#### **ANALYSIS AND INTERCOMPARISON OF TWO COUPLED CIRCULATION-WAVE MODEL SYSTEMS**



Corresponding Author: Luigi Cavaleri

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#### **DISTRIBUTED MODEL PARAMETER ESTIMATION IN HETEROGENEOUS REGIONS: A CASE STUDY IN POORLY GAUGED ANDEAN BASINS**



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#### **EFFECTS OF CLIMATE CHANGES ON AQUIFER VULNERABILITY IN SEMI-ARID ZONES. APPLICATION ON MOURA - FICALHO AQUIFER (PORTUGAL)**



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#### **FLOOD PREDICTION BY APPLYING IMPROVED RAINFALL FORECASTS USING SATELLITE DATA AND NEURAL NETWORKS**



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#### **SELF-SIMILARITY AND SCALING CHARACTERISTICS OF CONVECTIVE RAINFALL AND ITS USE IN PRECIPITATION DOWNSCALING MODEL**



Corresponding Author: Kang Boosik

#### **PROBABILISTIC CHARACTERIZATION OF BASEFLOWS IN RIVER BASINS**



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**COUPLING OF AN ATMOSPHERIC LIMITED AREA MODEL WITH A SEQUENTIAL  
LAND SURFACE TEMPERATURE ASSIMILATION SCHEME**

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**MODELING THE IMPACT OF CLIMATE CHANGE ON HYDROLOGIC CYCLE AND THE  
DIFFUSE NUTRIENT TRANSPORT FOR LAKE BALATON CATCHMENT**

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**RAINFALL DOWNSCALING AND STOCHASTIC GENERATION**

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## THEME B1.b

### Surface hydrology

#### **RUNON AND SEDIMENT TRANSPORT OVER HETEROGENEOUS HILLSLOPES**

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#### **WATER BALANCE MODELLING USING NDVI-DERIVED ACTUAL EVAPOTRANSPIRATION**

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#### **AN INVESTIGATION OF FACTORS AFFECTING RAINWATER TANK SELECTION**

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#### **COMPLEXITY AND CATCHMENT MODELLING SYSTEMS**

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#### **DISCHARGE ANALYSIS OF GONGJU POINT ON THE GEUM RIVER BASIN IN KOREA USING SSARR MODEL**

Corresponding Author: Maeng Seung Jin

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#### **APPLICATION OF A GROUNDWATER RECHARGE MODEL FOR ESTIMATING SURFACE RUNOFF COMPONENTS IN SAKURAI RIVER WATERSHED, FUKUOKA, JAPAN**

Corresponding Author: Ahmad Alkaeed - Othoman

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#### **MODELING SNOWMELT USING A SINGLE PARAMETER MODEL: EXPERIENCE WITH THE DISTRIBUTED TOPKAPI MODEL**

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#### **PHYSICAL MODELING OF SHEET FLOW ON HIGHWAY PAVEMENT SURFACES**

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#### **FINITE-VOLUME 2D MODEL OF STORMWATER INFILTRATION AND FOCUSED RECHARGE IN A RAIN GARDEN**

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**ANALYSIS OF COMBINED SEWER OVERFLOW SPILL FREQUENCY/VOLUME IN NORTH OF SPAIN**

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**COMPARATIVE STUDY ON STORAGE FUNCTION AND SSARR MODELS FOR FLOOD FORECASTING**

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**TRANSPORT OF METALS IN STORM WATER RUNOFF**

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**UNSTEADY FLOW MODEL INCLUDING A DAM OPERATION RULE AS INTERNAL BOUNDARY CONDITION**

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**RAINFALL SPATIAL VARIABILITY AND GEOMORPHIC HYDROLOGIC RESPONSE**

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**URBAN HYDROLOGICAL DATA COLLECTION AND PRECIPITATION ANALYSIS - EXPERIENCE IN NORWAY**

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## THEME B1.c

### Sub-surface hydrology

#### **NUMERICAL MODELLING OF DENSITY-DRIVEN FLOW AND TRANSPORT PROCESSES IN A COASTAL AQUIFER - SUBMARINE GROUNDWATER DISCHARGE FROM SEEPS**



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#### **SPATIAL DYNAMICS OF AQUIFER RECHARGE IN THE BASIN OF MEXICO**



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#### **ANALYTICAL SOLUTION FOR TIDAL PROPAGATION IN A LEAKY AQUIFER EXTENDING UNDER THE SEA AND TERMINATED AT A FAULT**



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#### **RELATIONSHIP BETWEEN THE GROUNDWATER QUALITY AND THE PADDY IRRIGATION**



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#### **THE EFFECT OF HEAT CONVECTION ON COUPLED THERMO-HYDRO-MECHANICAL PROCESSES IN SATURATED ROCKS WITH DIFFERENT PERMEABILITIES**



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#### **DESIGN CURVES FOR GROUND-WATER PUMPING IN COASTAL AREAS**



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#### **EVALUATE THE EFFECT OF GROUNDWATER AQUIFER'S WATER LEVEL BY REGIONAL GROUP WELL PUMPING**



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#### **SENSITIVITY ANALYSIS OF ELECTRO-OSMOTIC DEWATERING OF SOILS**



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#### **THE EVALUATION OF DEVELOPABLE AMOUNT WITH RIVERBANK FILTRATION - A CASE IN KOREA**



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**CONCENTRATION STATISTICS FOR NON-ERGODIC TRANSPORT WITH FINITE PÉCLET VALUES IN POROUS HETEROGENEOUS FORMATIONS**

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**SOME ASPECTS OF TRANSBOUNDARY GROUNDWATER RESOURCES MANAGEMENT**

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**SEASONAL STUDY OF RADIUM 224 ACTIVITY IN THE VENICE LAGOON AS A PROXY FOR GROUNDWATER DISCHARGE**

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**3D FLOW MODEL OF AQUIFER SYSTEMS OF CENTRAL VENETO (ITALY)**

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**THE IMPORTANCE OF SUBMARINE GROUNDWATER DISCHARGE OR THE POLLUTION OF THE NEAR SHORE SEA WATER**

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**A PILOT PROJECT OF ANTHROPOGENIC VENICE UPLIFT**

Corresponding Author: Pietro Teatini

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**MODELLING HILLSLOPE RESPONSE USING THE 3D RICHARDS EQUATION**

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## THEME B2.a

### Remote sensing techniques and applications

#### **FLOOD SIMULATION USING RAINFALL DATA FROM RAIN GAUGES AND RADAR BY CONDITIONAL MERGING METHOD**

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#### **VARIABILITY OF INUNDATION PATTERN WITH HYDROCLIMATE ON TWO CONTRASTING RIVERS--MEKONG AND FEATHER**

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#### **IMPERVIOUS SURFACE ESTIMATION OF JUNGNANG-CHEON USING LANDSAT-7 ETM+ AND HIGH RESOLUTION SATELLITE IMAGE**

Corresponding Author: Jun-Haeng Heo

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#### **ON THE GROUND-TRUTH DESIGNS OF RADAR RAINFALL**

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#### **DYNAMICS OF SECONDARY CURRENTS AND SURFACE BOILS IN TURBULENT OPEN-CHANNEL FLOW REVEALED BY SURFACE PARTICLE IMAGE VELOCITY MEASUREMENTS**

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#### **OBSERVATIONS AND ANALYSES OF INTERTIDAL ECOLOGICAL PATTERNS THROUGH REMOTE-SENSING**

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#### **USE OF SATELLITE REMOTE SENSING TO ASSESS SHALLOW WATER TURBIDITY IN THE VENICE LAGOON**

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#### **MODELLING THE GEOID AND SEA-SURFACE TOPOGRAPHY IN COASTAL AREAS: NEW COMPUTATIONS IN NORTH EASTERN ITALY**

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## THEME B2.b

### Hydroinformatics

#### **ESTIMATION OF THE DISCHARGE COEFFICIENT OF CANAL RADIAL GATE USING ARTIFICIAL NEURAL NETWORK**

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#### **PREDICTION OF DISPERSION COEFFICIENTS IN A SMALL STREAM USING ARTIFICIAL NEURAL NETWORKS**

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#### **NUMERICAL MODELLING OF SEDIMENT EFFECT ON FATE AND TRANSPORT OF FAECAL BACTERIA IN SURFACE WATER**

Corresponding Author: Guanghai Gao

Other Author: R. Falconer, B. Lin



#### **NORMAL DEPTH IN OPEN CHANNELS, BASED ON GENETIC ALGORITHM**

Corresponding Author: Mohammad Bakhtiari

Other Author: A. Kanani, S.M. Borghei



#### **AN IMPROVED R-FACTOR ALGORITHM FOR TVD SCHEMES ON STRUCTURED AND UNSTRUCTURED GRIDS**

Corresponding Author: Liao Huasheng



#### **FUZZY LOGIC FOR URBAN DRAINAGE SYSTEMS PREVENTIVE MAINTENANCE**

Corresponding Author: Giuseppe Del Giudice

Other Author: L. Farina



#### **OPTIMAL DESIGN OF GRAVITY MULTI-LEVEL WATER TRANSMISSION SYSTEMS USING MODIFIED GA**

Corresponding Author: Rajesh Gupta

Other Author: M.S. Kadu, P.R. Bhawe



#### **IHACRES VERSUS ANNS IN WATER RESOURCES DESIGN**

Corresponding Author: Elena Carla Carcano

Other Author: E. Carcano, P. Bartolini, M. Muselli, B. Croke



#### **APPLICATION OF SIMULATION-OPTIMIZATION AND META-MODELING IN BASIN-WIDE OPTIMUM WATER ALLOCATION PLANNING**

Corresponding Author: Mojtaba Shourian

Other Author: M.S. Jamshid



**A STUDY OF THE WATER ENTRAINMENT ON WANAPUM DAM**

Corresponding Author: Marcela Politano  
Other Author: C. Turan, P. Carrica, L. Weber



**MODELLING OF THE WAVE-CURRENT INTERACTION IN THE PEARL RIVER ESTUARY**

Corresponding Author: W. H. Onyx Wai  
Other Author: C.H. Wang, Y.S. Li



**NUMERICAL SIMULATION OF NON-LINEAR WAVES WITH THE NAVIER-STOKES EQUATIONS**

Corresponding Author: Jean-Michel Hervouet



**COMPARISON STUDY OF LATTICE BOLTZMANN METHOD AND GODUNOV METHOD FOR SHALLOW WATER FLOWS**

Corresponding Author: J. Zhou



**A NEW NEURAL NETWORK MODEL FOR IDENTIFICATION MISS-VECTORS OF FLOW FIELD**

Corresponding Author: Wu Longhua



**REAL-TIME BAYESIAN ANOMALY DETECTION FOR ENVIRONMENTAL SENSOR DATA**

Corresponding Author: David Hill  
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**PIECEWISE-LINEAR OPERATING RULE FOR SINGLE RESERVOIR USING NSGA-II**

Corresponding Author: Taesoon Kim  
Other Author: H. Jun-Haeng, B. Deg-Hyo, J. Younghun



**PREDICTION OF AFFLUX AT BRIDGE CONSTRICTIONS USING A DEPTH AVERAGED NUMERICAL MODEL**

Corresponding Author: Mohammad Reza Hadian  
Other Author: A.R. Zarrati



**FUNDAMENTAL STUDY ON GENERATION MECHANISM OF INNER SECONDARY FLOW IN A CORNER FORMED BY A VERTICAL WALL AND FREE SURFACE**

Corresponding Author: Shun-Ichiro Hayashi  
Other Author: T. Ohmoto, I. Honda, R. Hirakawa



**2D FINITE ELEMENT MODELING OF POLLUTANT TRANSPORT IN TIDAL RIVER**

Corresponding Author: Il Won Seo  
Other Author: L. Myung Eun



**A FUZZY CLUSTERING METHOD TO PREDICT AIR DEMAND DOWNSTREAM OF BOTTOM OUTLET LEAF GATES**

Corresponding Author: Mohammad Reza Kavianpour  
Other Author: M.R. Najafi, Z. Kavianpour



**TOWARDS A DYNAMIC AND ADAPTIVE SYSTEM FOR REAL-TIME DECISION SUPPORT IN AQUATIC ENVIRONMENTS**

Corresponding Author: Matthew Hipsey  
Other Author: J. Imberger, A. Paparini, J. Antenucci, R. Soncini-Sessa, V. Romano-Spica



**AN INTERACTIVE MULTI-OBJECTIVE FRAMEWORK FOR EXPERT-BASED HYDROLOGIC MODEL CALIBRATION**

Corresponding Author: Abhishek Singh  
Other Author: B.S. Minsker, A. Valocchi



**A SUGENO FUZZY MODEL FOR DAILY RAINFALL SERIES PREDICTION BASED ON LOCAL METEOROLOGICAL DATA**

Corresponding Author: Roberto Greco  
Other Author: A. Cavallo



**COMPARISON OF NUMERICAL DIFFUSION OF MASS TRANSPORT IN SHOCK CAPTURING METHODS FOR A DENSITY COUPLED SHALLOW WATER MODEL**

Corresponding Author: Andrew Sleight  
Other Author: A. de la Fuente, N. Yarko



**MODULAR DATA-DRIVEN HYDROLOGIC MODELS WITH INCORPORATED KNOWLEDGE: NEURAL NETWORKS AND MODEL TREES**

Corresponding Author: Dimitri Solomatine  
Other Author: G. Corzo, M. Siek



**AN IMPROVED IMMERSSED BOUNDARY METHOD FOR COMPLEX GEOMETRY ENVIRONMENTAL FLOWS**

Corresponding Author: Enrico Napoli  
Other Author: B. Milici, F. Roman, V. Armenio



**SIMPLIFIED SWASH BOUNDARY CONDITION FOR WAVE-AVERAGED MODELS**

Corresponding Author: Qun Zhao



**UNCERTAINTY ANALYSIS IN THE WATER NETWORKS OPTIMIZATION WITH GA. INFLUENCE OF POPULATION'S SIZE**

Corresponding Author: Daniel Mora Melia  
Other Author: P.L. Iglesias, J. Martinez, V.S. Fuertes



**FUZZY LOGIC FOR PRIORITIZING SEWER LINE MAINTENANCE**

Corresponding Author: Giuseppe Del Giudice  
Other Author: L. Farina



**A BOUSSINESQ APPROXIMATION FOR OPEN CHANNEL FLOW**

Corresponding Author: John Fenton  
Other Author: Y. Zerihun



**ESTABLISHMENT OF REGIONAL HOMOGENEOUS ZONES IN A WATERSHED USING CLUSTERING ALGORITHMS**

Corresponding Author: Judith Ramos  
Other Author: I. Pelczer, R. Dominguez, F. Gonzalez



**ASSIMILATION OF SATELLITE ALTIMETRY DATA INTO OCEAN CIRCULATION MODEL**

Corresponding Author: Vladan Babovic  
Other Author: R. Uittenbogaard, M. Womersley



**RESIDENCE TIME DISTRIBUTION AND DISPERSION IN A CONTACT TANK**

Corresponding Author: Carlo Gualtieri  
Other Author: G. Pulci Doria



**CURRENT CHARACTERISRICS SIMULATION WITH ANN**

Corresponding Author: Philippe Gourbesville  
Other Author: C. Cheng Zi, B. Seong Joon, A.R. Gudimetla, L. Shi Yui



**INTELLIGENT SYSTEM APPLICATION FOR FLOW FORECASTING, CASE STUDY: NEURAL APPROACH IN KASHKAN RIVER BASIN, IRAN**

Corresponding Author: Mohammad Zakermshfegh  
Other Author: F. Yazdandoost, H. Ghalkhani, B. Bozorgy, M. Mirzaee





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## THEME B2.d

### Economic, legal, social and political aspects of water management

#### **STRATEGIC MANAGEMENT OF COASTAL AQUIFERS SUBJECT TO SALINITY INTRUSION**

Corresponding Author: Gregory Shahane De Costa

Other Author: B. Datta, M. Porter, T. Kojiri, T. Hamaguchi



#### **CAN WE RELY ON HYDROLOGIC MODELS TO MAKE THE RIGHT MANAGEMENT DECISION? AN MCDA APPROACH**

Corresponding Author: Amin Elshorbagy



#### **ENVIRONMENT ASSESSMENT OF TOXIC-CHEMICAL IMPACTS IN RIVER BASIN ECOSYSTEM WITH DISTRIBUTED RUNOFF MODEL**

Corresponding Author: Tomoya Kawaguchi

Other Author: W. Morihira, K. Toshiharu



#### **TOWARD THE INTEGRATION OF WATERSHED SCIENCE AND MANAGEMENT**

Corresponding Author: Marian Muste



#### **STUDY ON HEALTH EVALUATION OF DALIAN WATER-BASED SYSTEM**

Corresponding Author: Fangjie Cong

Other Author: Z. Huicheng



#### **INCORPORATING PUBLIC OPINION IN WATER CONSERVATION MANAGEMENT PLANS USING MULTICRITERIA ANALYSIS**

Corresponding Author: Dimitra Vagiona

Other Author: N. Mylopoulos



#### **CREATING A RIVER ENVIRONMENT ASSESSMENT INDEX FOR SETTING GOAL**

Corresponding Author: Yabe Hiroki



#### **HYDRAULIC RESEARCH AND PORT INNOVATION. A SPANISH PERSPECTIVE**

Corresponding Author: Ramon Gutierrez-Serret

Other Author: J.M. Grassa, J.I. Grau, J. Poncela, I. Rodriguez



#### **INFORMATION SUPPORT SYSTEM FOR FLOOD EMERGENCY RESPONSE IN TAIWAN**

Corresponding Author: Hsin-Ya Ho

Other Author: M.C. Chiou, W.C. Lee, C.L. Yen



#### **EVALUATION OF SMALL SCALE HYDRO ELECTRICITY POTENTIAL IN THE ITALIAN TERRITORY**

Corresponding Author: Maximo Peviani

Other Author: J. Alterach, O. Brasi, S. Maran



**SOME ASPECTS OF STATE WATER CADASTRE DEVELOPMENT IN THE REPUBLIC OF ARMENIA**

Corresponding Author: Armine Simonyan

Other Author: H. Tokmajyan, A. Abovyan



**SUSTAINABLE WATER MANAGEMENT - HARMONIZING HYDROPOWER PROJECTS WITH THE ENVIRONMENT, NATURAL RESOURCES AND SOCIETY**

Corresponding Author: Kari Dalen



**ESTIMATION OF URBAN FLOOD DAMAGE IN KOREA**

Corresponding Author: Hungsoo Kim

Other Author: L. Keonhaeng, K. Minsoo



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## THEME C1.a

### Fundamentals of turbulence, mixing and dispersion processes

#### **EXPERIMENTS ON MIXING IN A DENSITY CURRENT DOWN A SLOPE**

Corresponding Author: Claudia Adduce  
Other Author: C. Cenedese



#### **A SIMPLE MATHEMATICAL MODEL FOR MEAN FLOW CHARACTERISTICS IN CONFINED JETS**

Corresponding Author: Hooman Hajikandi  
Other Author: A. Farshid



#### **3D GRAVITY CURRENTS ON SMOOTH AND ROUGH BED**

Corresponding Author: Michele La Rocca  
Other Author: A. Bateman Pinzon, M. Morganti, M. Sbarigia



#### **DE-AERATION BY STRUCTURAL MEANS IN PRESSURIZED FLOW**

Corresponding Author: Martin Wickenhaeuser  
Other Author: H.E. Minor



#### **EFFECT OF TURBULENCE IN WATER CHANNEL MEASUREMENTS**

Corresponding Author: Claudia Pollak-Reibenwein  
Other Author: A. Joeppen



#### **CALCULATION OF DISPERSION COEFFICIENTS BY ROUTING PROCEDURE IN TWO-DIMENSIONAL RIVER MIXING**

Corresponding Author: Kyong Oh Baek  
Other Author: I.W. Seo



#### **HEIGHT OF RISE OF INCLINED AND VERTICAL NEGATIVELY BUOYANT JETS**

Corresponding Author: George Christodoulou  
Other Author: I. Papakonstantis, M. Kampourelli



#### **DEPOSITION FROM PARTICLE-LADEN, TURBULENT, ROUND BUOYANT JETS**

Corresponding Author: Alan Cuthbertson  
Other Author: P. Davies



#### **AIR TRANSPORT DOWNSTREAM OF CHUTE AERATORS**

Corresponding Author: Michael Pfister  
Other Author: w. H. Hager, H.E. Minor



#### **A LES INVESTIGATION OF THE STRUCTURE OF INTRUSIVE BOUSSINESQ GRAVITY CURRENTS**

Corresponding Author: Ooi Seng Keat  
Other Author: G. Constantinescu, L. Weber



**ON THE ALTERNATIVE EQUATIONS OF WATER HAMMER**

Corresponding Author: Tiit Koppel

Other Author: L Ainola



**TURBULENT FRONT ADVANCEMENT OF BLOOD IN RAYLEIGH-TAYLOR INSTABILITY BY TANK-OVERTURN EXPERIMENT AND FINITE TIME BLOW-UP**

Corresponding Author: Li Xi



**ANALYSIS ON THE UPWELLING OF THE ANOXIC WATER MASS IN INNER TOKYO BAY**

Corresponding Author: Akira Wada

Other Author: K. Kitahara, M. Kawanaga, M. Miura, T. Takano



**EFFECT OF TWO-PHASE AND MIXED-FLOW PERSPECTIVES IN THE ESTIMATION OF THE TURBULENCE INTENSITY FOR WATER IN OPEN-CHANNEL FLOWS WITH SUSPENDED SEDIMENT**

Corresponding Author: Marian Muste

Other Author: D. Li, M. Muste, X. Wang



**RSM MODEL FOR THE NUMERICAL SIMULATION OF 3D TURBULENT FLOW**

Corresponding Author: Jonathan Wertel

Other Author: J. Vazquez, R. Mose



**UNDERWATER TRENCH INCISION AND TURBID OVERSPILL DUE TO MOVING POINT JETS**

Corresponding Author: H. Capart

Other Author: Su Jason C.C., Perng Arthur T.H.



**EFFECTS OF REYNOLDS NUMBER AND COFLOW ON MIXING OF A SUBMERGED ROUND JET**

Corresponding Author: K.M. Lam

Other Author: L. P. Xia



**FRICTION FACTOR OF SMOOTH TURBULENT OPEN CHANNEL FLOW**

Corresponding Author: Yoo Dong Hoon

Other Author: T.H. Lee



**EFFECT OF NOZZLE TYPE ON BUBBLE PLUME DYNAMICS**

Corresponding Author: Iran E. Lima Neto

Other Author: D.Z. Zhu, N. Rajaratnam



**THE MOTION OF SUSPENDED PARTICLES IN CELLULAR FLOW**

Corresponding Author: Kiyosi Kawanisi

Other Author: P. Nielsen, M.F. Maghrebi



**DIFFUSION AND DISPERSION IN COMPOUND CHANNELS: PRELIMINARY EXPERIMENTAL INVESTIGATION**

Corresponding Author: Quentin Fraselle

Other Author: N. Denies, D. Bousmar, Y. Zech



**APPLICATION OF A GENERAL FORM OF THE LOCAL RICHARDSON NUMBER TO INTERACTING ROUND BUOYANT JETS**

Corresponding Author: Panayotis C. Yannopoulos

Other Author: A.A. Bloutsos



**VISUALIZATION OF FLOW PATTERN AROUND TWO-IN-TANDEM CYLINDERS**

Corresponding Author: Akihiro Kadota

Other Author: R. de Aragao, S. Koichi



**DISCRETE VORTEX SIMULATION OF OPEN-CHANNEL FLOWS INCLUDING BUBBLE PLUMES**

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Other Author: I. Nezu



**COMPUTER MODELING DISPERSION PLUME OF VERACEL CELULOSE S/A**



## **DIFFUSER SYSTEM**

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## **EXPERIMENTAL STUDY ON MERGING BUOYANT JETS IN STAGNANT AMBIENT**

Corresponding Author: Siwan Lyu

Other Author: S. Il Won, K. Young Do



## **NUMERICAL SIMULATION OF TWO -PHASE AIR-WATER FLOW**

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Other Author: S. Moazami



## **AN EXPERIMENTAL STUDY ON AIR-WATER JETS**

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Other Author: D.Z. Zhu, N. Rajaratnam



## **FLOW ESTABLISHMENT OF CONCENTRATION FIELD IN SUBMERGED ROUND JETS**

Corresponding Author: K.M. Lam

Other Author: C.M. Or, C.K. Poon



## **LONGITUDINAL DISPERSION IN STRAIGHT CHANNELS: THE LAGRANGIAN APPROACH**

Corresponding Author: Marilena Pannone



## **A SMALL SCALE NUMERICAL EXPERIMENT OF LAGRANGIAN MIXING IN A TIDALLY DRIVEN, MID-LATITUDE BOTTOM BOUNDARY LAYER**

Corresponding Author: Vincenzo Armenio

Other Author: G. Lupieri, S. Salon



## **TURBULENCE AND FREE SURFACE INTERACTION**

Corresponding Author: Sandro Longo



## **DECAYING TWO-DIMENSIONAL ROTATING TURBULENCE : LABORATORY EXPERIMENTS**

Corresponding Author: Stefania Espa

Other Author: A. Cenedese, G. Carnevale, M. Mariani



## **EXPERIMENTAL INVESTIGATION ON THE TURBULENT STRUCTURES INVOLVED IN PARTICLE MOTION**

Corresponding Author: Julie Le Louvetel-Poilly

Other Author: F. Bigillon, J.-Y. Champagne



## **TRANSPORT AND DIFFUSION OF DISSOLVED SUBSTANCES IN WATER PIPE NETWORKS**

Corresponding Author: Carlos Cruickshank-Villanueva



## **THE IMPROVING OF AN ANALOGICAL DYE TRACER METHODOLOGY OF THE FAR FIELD SUBMARINE OUTFALL PLUME DISPERSION**

Corresponding Author: Emilia Arasaki

Other Author: P. Alfredini, R.F. do Amaral



## **CFD MODELING OF TURBULENT JET MIXING IN A WATER STORAGE TANK**

Corresponding Author: Michael Marek

Other Author: T. Stoesser; P.J.W. Roberts; V. Weitbrecht; G.H. Jirka



## **SCALE-DEPENDENT DISPERSION IN RIVERS**

Corresponding Author: Zhi-Qiang Deng

Other Author: J. Hoon-Shin



## **DENSITY, VELOCITY AND TURBULENCE IN A LOCK-RELEASE GRAVITY CURRENT: INSIGHTS FROM DIRECT NUMERICAL SIMULATION**

Corresponding Author: James R. Hoyes

Other Author: D.B. Ingham, W.D. McCattrey, L. Elliot, J. Peakall, M. Pourkashanian



**A COMMON DEPTH SCALE FOR GRAVITY CURRENTS AND OPEN CHANNEL FLOWS**

Corresponding Author: Johannes Buhler

Other Author: M. Princevac



**TURBULENCE MEASUREMENT INSIDE AND AROUND POROUS MEDIA BY USING A PTV**

Corresponding Author: Takaaki Shigematsu

Other Author: S. Nakajyo, K. Takehara, G. Tsujimoto



**WAKE INTERFERENCE IN CASE OF MACRO-SCALE ROUGHNESS: PRELIMINARY OBSERVATIONS**

Corresponding Author: Francesco Canovaro

Other Author: S. Francalanci



**BED FRICTION EFFECTS INFLUENCE IN SHALLOW TURBULENT FLOWS USING VIDEO TECHNOLOGY**

Corresponding Author: Isidro Robles

Other Author: A. Palacio



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## THEME C1.b

### Localized hydraulic phenomena

#### **VELOCITY AND TURBULENCE MEASUREMENTS IN A SCOUR HOLE AT DIFFERENT SCOURING STAGES**

Corresponding Author: Claudia Adduce

Other Author: G. Sciortino, P. Mele



#### **STEP POOL RAMP STABILITY DEPENDENT ON STEP BOULDER SHAPE, ADJUSTMENT AND FILTER MATERIAL**

Corresponding Author: Natascha Korecky



#### **SCOUR DEVELOPMENT AT ELLIPTICAL GUIDE BANKS DURING MULTIPLE FLOODS**

Corresponding Author: Boriss Gjunsburgs

Other Author: R. Neilands



#### **COHERENT STRUCTURES IN THE FLOW AROUND A VERTICAL BRIDGE ABUTMENT AT EQUILIBRIUM SCOUR CONDITIONS**

Corresponding Author: Mete Koken

Other Author: G. Constantinescu



#### **EFFECT OF ARRANGEMENT OF CYLINDER TYPE BAFFLE BLOCK ON DRAG AND LIFT FORCE CONSTRUCTED IN STILLING BASIN**

Corresponding Author: Kouki Onitsuka

Other Author: J. Akiyama, M. Shige-eda, T. Nakagawa, H. Ozeki, H. Hatanaka



#### **CALCULATING TRANSVERSE MIXING COEFFICIENT FOR TIGRIS RIVER SHARP BEND WITHIN BAGHDAD CITY**

Corresponding Author: Thana Al-Shalchi

Other Author: N. Al-Ani



#### **EFFECT OF FLOW DEPTH AND COLLAR WIDTH ON THE SCOUR DEPTH AT BRIDGE ABUTMENTS**

Corresponding Author: S. Yurdagul Kumcu

Other Author: M. Gogus



#### **ENERGY DISSIPATION IN SUBMERGED BLOCK RAMPS AT FIXED SLOPE**

Corresponding Author: Stefano Pagliara

Other Author: D. Rajib, M. Palermo



#### **2D-FLOW MEASUREMENT AROUND A CYLINDRICAL PIER IN A 180' CHANNEL BEND**

Corresponding Author: Yaser Emami

Other Author: M. Ghodsian, A.A. Dehghani



**AIR BUBBLE ENTRAINMENT IN HYDRAULIC JUMPS: PHYSICAL MODELING AND SCALE EFFECTS**

Corresponding Author: Hubert Chanson



**THREE-DIMENSIONAL NUMERICAL STUDY OF RIVER CHANNEL CONFLUENCE WITH BED CHANGES**

Corresponding Author: Amir Reza Zarrati  
Other Author: A. Shakibaeinia, T. Majdzadeh, M. Reza



**BOUNDARY LAYER SEPARATION BENEATH SUBMERGED JUMP FLOWS**

Corresponding Author: Raul Antonio Lopardo  
Other Author: J.M. Casado



**ESTIMATION METHOD FOR FLOOD FLOW BY MINI-MODEL**

Corresponding Author: Ryoichi Matsumoto  
Other Author: I. Nihei, K. Tabata



**FLOW FEATURES IN PLUNGE POOLS**

Corresponding Author: Jens Unger  
Other Author: W.H. Hager



**EFFECT OF BED SHEAR STRESS ON DEVELOPMENT OF SCOURING AROUND BRIDGE PIERS PROTECTED BY A COLLAR**

Corresponding Author: M.B. Mashahir  
Other Author: A.R. Zarrati, E. Mokallaf



**TIME EVOLUTION OF LOCAL SCOUR DUE TO FREE OVERFALL**

Corresponding Author: Amin Salamatian  
Other Author: H. Ranjbar, M. Ghodsian



**EXPERIMENTAL OBSERVATIONS ON UNDULAR HYDRAULIC JUMPS WITH VERY HIGH ASPECT RATIO**

Corresponding Author: Francesca De Serio  
Other Author: M. Ben Meftah, M. Mossa, A. Pollio



**FUZZY ALGORITHM FOR ESTIMATION OF HYDRAULIC JUMP AERATION EFFICIENCY**

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Other Author: C. Sevket



**EVALUATING HYDRODYNAMIC PRESSURES IN THE STILLING BASIN OF PORTO COLOMBIA HIDROELECTRIC POWER PLANT**

Corresponding Author: Marcelo Giulian Marques  
Other Author: M. Marcio Rogar, A.A. Mees Alves, E.D. Teixeira, F. Moraes de Almeida



**ANALYSIS OF HIGHER-ORDER VELOCITY MOMENTS IN A TWO-DIMENSIONAL SCOUR HOLE.**

Corresponding Author: Ram Balachandar  
Other Author: M.A.A. Faruque, A. Bey



**SCOUR BY SUBMERGED SQUARE WALL JETS AT LOW DENSIMETRIC FROUDE NUMBERS**

Corresponding Author: Ram Balachandar  
Other Author: M.A.A. Faruque, P. Sarathi



**A EXPERIMENTAL STUDY ON SHEAR STRESS VARIATION BY SCOUR PROGRESS**

Corresponding Author: Joon Gu Kang  
Other Author: Y. Hong Koo Yeo, K. Sung



**MODELLING LOCAL SCOUR IN RIVERS USING THE MOVABILITY NUMBER APPROACH**

Corresponding Author: Neil Armitage  
Other Author: B. Abban





**NUMERICAL SIMULATION OF LOCAL SCOUR PROCESS DUE TO SUBMERGED JET  
DOWNSTREAM OF A GOUNDSILL**

Corresponding Author: Tatsuhiko Uchida  
Other Author: S. Fukuoka



**COMPARATIVE CFD AND SCALE MODEL ANALYSIS OF THE FLOW COMPLEXITY  
AT A RIVER CONFLUENCE**

Corresponding Author: Sandor Baranya  
Other Author: J. Jozsa



**EFFECTS OF BED FRICTION ON THE STABILITY OF HYDRAULIC JUMP ON  
ADVERSE SLOPE**

Corresponding Author: Francesca Maria Susin  
Other Author: A. Defina



**ADVANCED NUMERICAL MODELLING OF THE SCOURING PROCESS AROUND THE  
PIERS OF A BRIDGE**

Corresponding Author: Davide Motta  
Other Author: R.T. Ramon Pacheco



**TEMPORAL EVOLUTION OF LIVE-BED SCOUR AT BRIDGE PIERS**

Corresponding Author: Giuseppe Oliveto  
Other Author: A. Di Domenico, V. Comuniello



**FLOW CONTROL BY THE HANAGURI CHANNEL, A MONUMENTAL IRRIGATION  
WORK BY KIYOMASA KATO**

Corresponding Author: Terunori Ohmoto  
Other Author: H. Ito



**NUMERICAL AND PHYSICAL MODEL OF SPILLWAY STILLING BASIN**

Corresponding Author: Jose Carlos C. Amorim  
Other Author: R.C. Rodrigues



**EFFECT OF SEDIMENT SIZE ON LOCAL SCOUR AT SPUR DIKES**

Corresponding Author: Ali Nasrollahi  
Other Author: M. Ghodsian, A. A. Salehi Neyshabouri



**BRIDGE SCOUR CAUSED BY A FLOOD WAVE**

Corresponding Author: Shunqi Pan  
Other Author: A. Khm; J. Fajrin



**CLUSTERING PROCESS ANALYSIS IN A LARGE-SIZE DROPSHAFT AND IN A  
HYDRAULIC JUMP**

Corresponding Author: Carlo Gualtieri  
Other Author: H. Chanson



**EXPERIMENTAL STUDY ON RIPRAP PROTECTION OF VERTICAL-WALL  
ABUTMENTS**

Corresponding Author: Cristina Maria Sena Fael  
Other Author: A.H. Cardoso



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## THEME C1.c

### Mathematical (numerical) modelling of complex flow fields

#### **THREE-DIMENSIONAL NUMERICAL INVESTIGATION OF FLOW REGIMES IN STEP - POOLS - LIMITS OF UNSTEADY WAVE GENERATION**

Corresponding Author: Georg Premstaller

Other Author: P. Rutschmann



#### **EFFECT OF CANALIZATION ON INUNDATION AND SUSPENDED SEDIMENT DEPOSITION IN PLAIN OF REEDS, MEKONG DELTA, VIETNAM**

Corresponding Author: Pham Ngoc

Other Author: S. Kazama, M. Sawamoto



#### **AN IMPROVED DISCHARGE PREDICTION METHOD FOR OVERBANK FLOWS**

Corresponding Author: Xiaonan Tang

Other Author: D.W. Knight



#### **AN EXPERIMENTAL AND NUMERICAL STUDY OF THE EFFECTS OF WIDTH OF MEANDERING MAIN CHANNEL ON OVERBANK FLOWS**

Corresponding Author: Peter Wormleaton

Other Author: M. Marriott



#### **NUMERICAL SIMULATION OF FLOW AT 'Y' SHAPED OPEN-CHANNEL JUNCTIONS**

Corresponding Author: Guo Weidong

Other Author: Y. Liping, Y. Feng



#### **COMPARISON OF METHODS FOR PREDICTING CONVEYANCE CAPACITY IN COMPOUND CHANNELS**

Corresponding Author: Er Huang

Other Author: Y. Kejun; L. Xingnian, C. Shuyou



#### **BED LOAD DISCHARGE FORMULA OF A SELF-FORMED CHANNEL BASED UPON THE CONCEPT OF ENTROPY IN AN ARMORING PROCESS**

Corresponding Author: Er Huang

Other Author: L. Xingnian, Y. Kejun, C. Shuyou



#### **THE EFFECT OF FLOODPLAIN ENGINEERING WORKS ON THE MORPHOLOGY OF MEANDERING CHANNELS**

Corresponding Author: Peter Wormleaton

Other Author: R. Sellin, F. Bhuiyan



#### **A THREE-DIMENSIONAL NUMERICAL MODEL FOR LARGE-SCALE RIVER FLOW WITH A NEW MODE-SPLITTING TECHNIQUE**

Corresponding Author: Yasuo Nihei

Other Author: Y. Kato, K. Sato



**COHERENT EDDY STRUCTURE IN MEANDERING COMPOUND OPEN-CHANNEL FLOWS**

Corresponding Author: Michio Sanjou  
Other Author: I. Nezu, H. Quang



**ESTIMATING PARAMETERS FOR CONVEYANCE IN 1D MODELS OF OPEN CHANNEL FLOW FROM LARGE EDDY SIMULATION**

Corresponding Author: Faye Beaman  
Other Author: H. Morvan, N. Wright



**TURBULENCE MODELING OF SOLUTE TRANSPORT IN OPEN-CHANNEL FLOWS**

Corresponding Author: Sung-Uk Choi  
Other Author: K. Hyeongsik



**NUMERICAL SIMULATION OF HYDRAULIC JUMP BY 1-D IMPLICIT UPWIND MODEL**

Corresponding Author: Won Kim  
Other Author: Y. Hongkoo



**TWO-DIMENSIONAL MODELLING OF DISCHARGE DISTRIBUTION IN VEGETATED COMPOUND CHANNEL (BESOS RIVER)**

Corresponding Author: Ernest Blade  
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**FLOW AND BED EVOLUTION IN A RESTORED EMBAYMENT**

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**THREE-DIMENTIONAL COMPUTATIONS OF COMPOUND CHANNEL FLOW**

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**ENERGY AND MOMENTUM APPROACHES FOR ANALYSIS OF GRADUALLY-VARIED FLOW THROUGH COMPOUND CHANNELS**

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**FLOW VISUALIZATION EXPERIMENTS ON HORIZONTAL COHERENT STRUCTURE IN COMPOUND CHANNEL FLOW WITH 45' INTERFACE GEOMETRY**

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## THEME C2.a

### Water distribution and drainage network

#### **NON-STABLE WATER MOTION IN DISTRIBUTION NETWORK HAVING WATER TOWER IN CASE OF ALTERATION OF THE NUMBER OF OPERATING GROUPS**

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#### **STUDY ON HELICOIDAL-RAMP TYPE DROPSHAFTS WITH BIDIRECTIONAL INFLOWS**

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#### **STUDY OF STORMWATER STORAGE AND INFILTRATION TECHNOLOGY ON CSO CONTROL**

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## THEME C2.b

### Hydraulic Structures

#### **SELF-SIMILARITY OF AIR-WATER FLOWS IN SKIMMING FLOWS ON STEPPED SPILLWAYS**

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#### **INFLUENCE OF RECTANGULAR IMPINGE JET'S ASPECT RATIO ON DYNAMIC PRESSURE**

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#### **TWO DIMENSIONAL MODELLING OF RIVER BIFURCATIONS**

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#### **PRESSURES CHARACTERIZATION OF UNDEVELOPED AND DEVELOPED JETS IN SHALLOW AND DEEP POOL**

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#### **EXPERIMENTAL INVESTIGATION ON SCOUR AROUND SPUR DIKES LOCATED AT DIFFERENT POSITIONS IN A 90' BEND**

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#### **EFFECT OF RELATIVE SUBMERGENCE ON THE FLOW AND MASS EXCHANGE PROCESSES IN A CHANNEL WITH TWO LATERAL GROYNES**

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#### **SHALLOW FLOW VISUALIZATION AND COHERENT STRUCTURES AROUND A SINGLE GROYNE**

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#### **OSCILLATIONS IN A CHANNEL WITH RECTANGULAR WIDENINGS AT THE SIDE WALLS**

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#### **HYDRAULIC CHARACTERISTICS OF A GROUP OF PERMEABLE GROINS CONSTRUCTED IN AN OPEN CHANNEL FLOW**

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**APPLICATION OF SLIT-TYPE DISSIPATOR IN OVERFLOW SPILLWAYS OF HIGH GRAVITY DAM**

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**HYDRAULICS OF A SUBMERGED WEIR AND APPLICABILITY**

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**HYDRAULIC CHARACTERISTICS OF PARTIAL OPENING OF THE GATE FOR A DISCHARGE TUNNEL**

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**STEP AERATOR AND SPRAY REDUCTION FOR STEPPED CHUTES**

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**RELATIONSHIP BETWEEN VORTEX CORE RADIUS AND WATER-SURFACE CURVATURE CHARACTERISTIC RADIUS**

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**AIR-WATER FLOW ANALYSIS USING NUMERICAL, EXPERIMENTAL AND SIMULATED ANNEALING METHODS**

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**NUMERICAL SIMULATION OF BOTTOM AERATION DEVICES IN A MILDLY SLOPING SPILLWAY TUNNEL WITH LARGE UNIT DISCHARGE AND LOW FROUDE NUMBER**

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**EXPERIMENTAL STUDY OF ENERGY DISSIPATION IN RADIAL STILLING BASINS USING ARTIFICIAL HOLED BED-SHEETS**

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**DISCHARGE CAPACITY THROUGH THE SLUICeway GATE OPENINGS AT A PROJECTED HYDROMATRIX POWER PLANT**

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**VALIDATING THE DAM SAFETY INDEX METHODOLOGY**

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**EFFECT OF AERATED INFLOWS ON CHARACTERISTICS OF PLUNGING FLOWS IN STEEP SLOPING CHANNELS**

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**HYDRAULICS OF SKI JUMPS**

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**MODEL SCALE EFFECT ON THE INCEPTION POINT OF AIR ENTRAINMENT IN FLOWS OVER SETEPPED SPILLWAYS**

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**VERIFICATION OF ALTERNATIVE MATHEMATICAL MODEL FOR DESIGN OF VORTEX DROPSHAFTS**

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**USE OF POLYMERS FOR PROTECTION OF CONCRETE AND REINFORCED CONCRETE STRUCTURES AND PREVENTION OF FILTRATION FROM HYDROTECHNICAL BUILDINGS**

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**EXPERIMENTAL RESULTS OF FLOW ENERGY DISSIPATION ON STEPPED CHUTES USING VANES AT THE STEP CAVITY**

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**CIRCULAR DROP MANHOLES PRELIMINARY EXPERIMENTAL RESULTS**

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**EFFECT OF SEDIMENT LOAD ON DISCHARGE COEFFICIENT OF SLUICE GATES**

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**FLOW TRANSITIONS EFFECTS ON DISCHARGE CHARACTERISTICS OF GATED STANDARD SPILLWAYS**

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**EVALUATION OF HYDRODYNAMIC FORCE ON TIED STONES**

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**PROTOTYPE OBSERVATION OF SHAFT HORIZONTAL VORTEX SPILLWAY OF GONGBOXIA HYDROPOWER PROJECT**

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**LABORATORY STUDY OF 3 DIMENSIONAL CHARACTERISTICS OF RECIRCULATING FLOW IN A RIVER EMBAYMENT**

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**NUMERICAL MODELING STUDY FOR FLOW PATTERN CHANGES INDUCED BY SINGLE GROUYNE**

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**EXPERIMENTAL STUDY ON VELOCITY DISTRIBUTION OF FLOW FIELD OF INCLINED CREST GROUYNE**

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**BALLASTED FILTERING MATTRESSES FOR THE BASE LAYER ( FILTER ) OF A RIPRAP PROTECTION AND/OR FOUNDATIONS OF OFFSHORE STRUCTURES**

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**COMPUTER SIMULATION FOR OBTAINING HYDRODYNAMIC FORCES ON RADIAL AND LEAF GATES WITHIN A HIGH PRESSURE CONDUIT**

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**NEW STRUCTURES OF ENERGY DISSIPATION FOR COASTAL OUTFALL OF A DRAINAGE PROJECT**

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**CHARACTERISTICS OF AERATED FLOWS IN SKIMMING, TRANSITION, AND NAPPE FLOWS**

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**CASE ANALYSIS OF HYDRAULIC RESONANCE AT A HDROPOWER PLANT AND VIBRATION REDUCTION OF AIR CHAMBER**

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**LOCAL FAILURE OF BASE BLOCK RAMPS**

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**SCOUR PROCESSES AT SPURS: PHENOMENOLOGY AND COUNTERMEASURES**

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**3D VELOCITY FIELD GENERATED BY A SIDE ORIFICE IN AN OPEN-CHANNEL**

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**CAVITATION DAMAGES AND AERATORS ON MEXICAN DAMS**

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**STUDY ON AERATORS OF HIGH HEAD SPILLWAY TUNNELS**

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**COMPUTING VELOCITY AND AIR CONCENTRATION PROFILES USING DEPTH-AVERAGED SOLUTION OF SKIMMING FLOW ON STEPPED SPILLWAYS**

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**ROCK SCOUR DOWNSTREAM SKI-JUMPS: COMPARISON OF PROTOTYPE OBSERVATIONS WITH ANALYTICAL AND PHYSICAL-MODEL ESTIMATES**

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**STATISTICAL MODELING OF DAMS BASED ON ORDER SERVICE PROCESSES AND POTENTIAL EVENTS OF FAILURE**

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**THE EFFECT OF MESH STRUCTURES ON SALINITY INTRUSION**

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**FLOW CHARACTERISTIC VARIATIONS ON GROUYNE TYPES FOR AQUATIC HABITATS**

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**LARGE EDDY SIMULATION OF VORTEX FLOW IN INTAKE CHANNEL OF HYDROPOWER FACILITY**

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**EXPERIMENTAL OBSERVATIONS ON SEEPAGE THROUGH A LEVEE: EFFECT OF FLOW**

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**FLOW THROUGH SIDE SLUICE GATE IN A CURVED CHANNEL**

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**LOW HEAD STILLING BASIN WITH IMPROVED DISSIPATION EFFICIENCY - SIDE DISSIPATION BEAMS**

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**VALUATION OF THE INTAKE HEAD LOSS COEFFICIENT'S BEHAVIOR WITH ASYMMETRIC FLOWS**

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**HYBRID MODELING OF AN INTAKE FOR HYDRAULIC OPTIMIZATION**

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**ESTIMATION OF CAVITY LENGTH BEHIND AERATORS**

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**DISCHARGE COEFFICIENTS FOR SLUICE GATES IN WEIRS**

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**PRESSURE PULSATIONS IN BOTTOM OUTLET TUNNELS**

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**DISCHARGE COEFFICIENTS OF SHARP-CRESTED SIDE-WEIR IN THE BROAD OPEN CHANNEL**

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**EXPERIMENTAL STUDY OF THE GATED SPILLWAY OF THE SHAHRYAR DAM IN IRAN**

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**REHABILITATION OF ST-MARC DAM. EXPERIMENTAL OPTIMIZATION OF A PIANO KEY WEIR**

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**HYDRAULIC DESIGN OF SPILLWAYS IN THE RECHARGE-STORAGE DAMS REGARDING THE RESERVOIR FLOOD CONTROL CAPACITY**

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**PYRAMIDAL BAFFLE BLOCKS IN OPEN CHANNEL FLOW**

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**EXPERIMENTAL INVESTIGATION OF AIR INCEPTION POINT ON STEPPED SPILLWAYS**

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**INFLUENCE OF GROYNES ON GROWTH OF VEGETATION**

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**NUMERICAL SIMULATION OF A FREE SURFACE VORTEX FORMED IN THE WAKE OF A PIER AT A HYDROPOWER INTAKE**

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**RIVER GROYNES FOR THE FUTURE - HARMONIZING TODAY'S DEMANDS IN INNOVATIVE GROYPNE DESIGN**



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**PRESSURE HEAD ALONG BAFFLE STILLING BASINS DOWNSTREAM OF STEEPLY SLOPING STEPPED CHUTES**

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**IMPROVEMENT OF FLOATING GATE DESIGN FOR C-1 NAVIGATION PASS OF ST. PETERSBURG FLOOD PROTECTION BARRIER**

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**PREDICTING CAVITATION INCEPTION ON STEEPLY SLOPING STEPPED SPILLWAYS**

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**THE INFLUENCE OF ROCK FISSURE OPENING DIMENSIONS IN PLUNGE POOL SCOUR**

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## THEME C2.c

### Hydraulic machinery

#### **PROTECTION OF THE PUMPING STATION'S PRESSURE PIPELINE FROM THE HYDRAULIC HAMMER BEING ACCOMPANIED BY INTERMEDIATE BREAK UP OF THE FLOW CONTINUITY**

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#### **EXPERIMENTAL INVESTIGATION OF VORTEX ROPES IN A STRAIGHT CONE DRAFT TUBE**

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#### **STREAM WHEELS FOR APPLICATIONS IN SHALLOW AND DEEP WATER**

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#### **THE DEVELOPMENT OF THE ROTARY HYDRAULIC PRESSURE MACHINE**

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#### **REVIEW OF CURRENT DEVELOPMENTS IN LOW HEAD, SMALL HYDROPOWER**

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#### **INFLUENCE OF NOZZLE EXIT CROSS SECTION SHAPE ON PERFORMANCE OF JET PUMP**

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#### **MECHANICAL FAILURE IN A PIPELINE DUE TO CHECK VALVE SLAM**

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## THEME D1.a

### Hydrodynamics and morphodynamics of coastal systems

#### **CROSS-SHORE DISTRIBUTIONS OF LONGSHORE CURRENT VELOCITY**

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#### **WAVE PROPAGATION OVER SUBMERGED DOUBLE IMPERMEABLE BREAKWATERS**

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#### **HYBRID FINITE-VOLUME MODELLING OF THE SURF ZONE**

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#### **LARGE-EDDY SIMULATION OF TURBULENT BOUNDARY LAYER BY STEADY OR OSCILLATORY CURRENT FLOW OVER FLAT, WAVY OR RIPPLED BOTTOM**

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#### **COASTAL DEVELOPMENTS IN HARMONY WITH NATURE AND SOCIETY**

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#### **ALS - A COASTAL ENGINEERING MODEL FOR WAVE PROPAGATION, WAVE-STRUCTURE INTERACTION AND BED MORPHOLOGY EVOLUTION**

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#### **SCALE MODELING OF HYDRAULIC-FILL BEACHES FORMED BY NON-SEGREGATING TAILINGS**

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#### **MODELLING BEACH PROFILE EVOLUTION OF BEACHROCK INFECTED BEACHES USING A BOUSSINESQ MODEL**

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#### **MODELLING OF FINE SEDIMENT IN A SANDY ENVIRONMENT -THE COASTAL ZONE OF THE NETHERLANDS -**

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#### **INFLUENCE OF COASTAL DEFENCES ON THE SURFABILITY**

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**EXPERIMENTAL INVESTIGATION ON THE EFFICIENCY OF POROUS MEDIA SUCH AS BRUSHWOOD FENCES ON DAMPING OF WAVES**

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**CHARACTERISTICS OF OSCILLATORY FLOWS AROUND A SUBMERGED ASYMMETRICAL STRUCTURE**

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## THEME D1.b

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#### **WATER QUALITY MODELING IN COMPLICATED ESTUARINE AREAS**

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#### **ANALYSIS OF FACTORS WHICH CONTRIBUTE TO RIVER-BED VARIATION AT YOSHINO RIVER MOUTH**

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#### **EFFLUENT DISPERSION IN A MACRO-TIDAL TROPICAL ESTUARY**

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#### **TWO-DIMENSIONAL LARGE EDDY SIMULATIONS FOR SHALLOW-FLOWS: A CASE OF A BACKWARD FACING STEP FLOW**

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#### **SPATIO-TEMPORAL TOPOGRAPHICAL CHANGE AROUND JINUDO IN NAKDONG RIVER ESTUARINE, KOREA**

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#### **SHORELINE CHANGE IN PAST RIVER MOUTH OF IWAKI RIVER**

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#### **QUASI-3D COASTAL AREA MODEL AND ITS APPLICATION TO MORPHODYNAMIC AROUND RIVER-MOUTH**

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#### **SPATIOTEMPORAL CHANGES OF THE SAND BARRIER USING MARINE CHARTS ANALYSIS IN THE NAKDONG RIVER ESTUARY**

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#### **NUMERICAL MODELLING OF THE MORPHODYNAMIC EVOLUTION OF SAND BANKS IN THE GIRONDE ESTUARY**

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**EFFECTS OF BOTTOM-HEIGHT CHANGES ON MAXIMAL EXCHANGE-FLOW ESTIMATES IN CHANNELS WITH QUADRATIC-SHAPE CROSS SECTIONS**

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**UNDERSTANDING THE WATER SURFACE ELEVATION FORCING MECHANISMS FOR THE ST. JOHNS RIVER**

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**EFFECT OF TIDAL FLATS ON TIDE PROPAGATION IN CHANNELS**

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## THEME D2.b

### Extreme and ordinary events in coastal management

#### **COASTAL EROSION OF KASHIMA COAST AND ITS COUNTERMEASURE, THE COMPREHENSIVE SEDIMENT MANAGEMENT**

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#### **NUMERICAL SIMULATION OF WEAK SWIRLING FLOW FIELD IN TURBID WATER HYDRAULIC SEPARATION DEVICE**

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#### **GRID NESTING FOR DISPERSION-CORRECTION FINITE DIFFERENCE MODEL FOR TSUNAMI SIMULATION**

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#### **THE EXPERIMENTAL STUDY ON CLEAR WATER FIELD CHARACTERISTICS OF A TURBID WATER HYDRAULIC SEPARATION DEVICE**

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#### **RESEARCH ON IMPROVEMENT OF SEDIMENT BY CURRENT CONTROL TECHNOLOGY**

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#### **THERMAL PLUME DISPERSAL OF THE SEOMJIN ESTUARINE CIRCULATION OF KOREA**

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#### **ESTIMATION OF EXTREME STORM SURGES USING A SPATIAL LINKAGE ASSUMPTION**

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#### **A WAVE AND CIRCULATION COUPLED MODEL FOR WAVE TRANSFER TO COASTAL LOCATIONS**

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#### **THE MODERN PREDICTABILITY OF THE BIG 1966 VENICE FLOOD**

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### **WAVE FIELD ANALYSIS FROM SAR IMAGES OF ENCLOSED SEAS**

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### **MODELLING THE IMPACT OF CLIMATE CHANGE ON EXTREME STORM SURGES ON FRENCH COASTS**

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### **DROPLET ENTRAINMENT AND SLICK'S CHARACTERISTICS IN THE OIL RETAINED BY A FLEXIBLE SPILL BARRIER**

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### **ANALYTIC SOLUTION FOR LONG WAVES PROPAGATING OVER AN ASYMMETRIC TRENCH**

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### **COASTAL MANAGEMENT MODEL OF HARMONIOUS DEVELOPMENT OF ECONOMY AND ECO-ENVIRONMENT FOR BOHAI BAY**

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### **MOLECULAR AND TURBULENT DISSOLVED SUBSTANCE DIFFUSION FROM FLOWING WATER INTO A SEDIMENT BED**

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### **INTEGRATION OF RISK AND ASSET MANAGEMENT FOR SUSTAINABLE MANAGEMENT OF EUROPEAN COASTAL ZONES**

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### **OBSERVATION ON THE CHARACTERISTICS OF WATER FLOW AND WATER QUALITY IN HORI RIVER**

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### **EXTENDED BOUSSINESQ EQUATIONS FOR RAPIDLY VARYING TOPOGRAPHY**

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### **TRANSPORTATION OF SOLID BODIES IN WAVE FLOWS PREDICTED BY 3D MULTIPHASE MODEL**

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### **WAVELET COHERENCE OVER SUBMERGED BREAKWATERS**

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### **APPLICATION OF THE EQUIVALENT TRIANGULAR STORM MODEL FOR ESTIMATING COASTAL RISK**

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### **INUNDATION SCENARIO OF NAGOYA CITY CONSIDERING RISE OF SEA LEVEL DUE TO GLOBAL WARMING**

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### **A DEMONSTRATOR FOR MANAGEMENT OF THE ST. PETERSBURG FLOOD PROTECTION BARRIER**

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**ROLE OF GROIN FIELD FOR COASTAL PROTECTION CONSIDERING SOCIO ECONOMIC ASPECTS**

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**STUDIES OF CHEMICAL TRANSPORT AND FATE PROCESSES**

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**ESTIMATION OF TREND BREAKS AND THEIR UNCERTAINTIES IN WATER LEVEL SERIES FOR DESIGN PURPOSES**

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