

RIVER FLOW 2022 - Full Program

Toronto time = EST (Eastern Standard Time); Coleman Award submissions marked with (**)

Tuesday – November 8th, Morning

08:15	Opening Ceremony				
08:45	Keynote Lecture 1 Unveiling the diversity of river systems in Lowland Amazonia: from basic science to engineering projects to achieve sustainable river-based development Dr. Jorge D. Abad, Scientific Director, RED YAKU, Peru				
09:45	Morning Break				
10:15	Parallel Sessions 1				
	A1: Flow in Straight and Compound Channels – Part I <i>Chair: Donatella Termini University of Palermo, Italy</i>	A2: Coherent Structures in Open-Channel Flow <i>Chair: Vincent Chu McGill University, Canada</i>	C1: In-Stream Structures: Hydrodynamics, Scour and Riverbed Protection – Part I <i>Chair: Rob Ettema Colorado State University, USA</i>	D1: Flow in Vegetated Channels <i>Chair: Jay Lacey Université Sherbrooke, Canada</i>	E1: Contaminant Transport and Mixing Processes – Part I <i>Chair: Susan Gaskin McGill University, Canada</i>
10:20	Apparent shear force modelling in compound open channel using Support Vector Machine (**) <i>R. Gaurav, B. Das, J. Khuntia, K. Devi</i>	Large-scale motion over spanwise heterogeneous bed roughness <i>S. Chung, Q. Luo, T. Stoesser</i>	Discussion of various equilibrium concepts on scouring around hydraulic structures (**) <i>C. Kannen, F. Seidel, M. Franca</i>	Effects of patch height on sediment entrainment mechanisms around a rectangular patch of vegetation <i>M. Koken, G. Constantinescu</i>	Gravity currents flowing over a rough bed (**) <i>M. Maggi, C. Adduce, M. Negretti</i>
10:40	Flow structure in a compound channel flow: benchmarking 2D and 3D numerical models <i>I. Kimura, D. Bousmar et al. IAHR Working Group on Compound Channels</i>	Three-dimensional structures of ice-covered flow in a river bend: <i>T. Le, B. Koyuncu</i>	Surface bed characteristics of circular pier scouring in different sediment mixtures under flow shallowness variations (**) <i>S. Okhravi, Y. Velísková, S. Gohari, T. Fazerer-Ferradosa,</i>	Direct bed shear stress measurements in flows through rigid emergent vegetation (**) <i>J. Aliaga, J. Aberle</i>	Influence of an emergent vertical obstacle on approaching gravity current (**) <i>G. Di Lollo, C. Adduce, M. Brito, R. Ferreira, A. Ricardo</i>
11:00	Boundary shear stress induced by a ship propeller wake over rough and smooth bed surfaces <i>F. Núñez, J. Macías, J. Aberle</i>	Cylindrical obstacle impacted by long waves: experimental observation of downstream vorticity and coherent structures <i>F. De Serio, R. Basile</i>	Riverbed protection due to installation of stacked boulders on both sides of elliptical pier <i>T. Ishitsuka, Y. Yasuda</i>	Anisotropy in turbulent flow through random and emergent rigid vegetation on rough beds <i>N. Penna, F. Coscarella, R. Gaudio, P. Gaultieri</i>	Quantifying mixing processes at a river-lake interface: the case of the plunging negatively buoyant inflow of the Rhône R. into Lake Gen. (**) <i>S. Thorez, K. Blanckaert, U. Lemmin, D. Barry</i>
11:20	A Rational estimation of the fully developed approach flow required for fluid-structure interaction studies in an open channel <i>S. Das, R. Balachandar, R. Barron</i>	Large-scale motion in semi-filled pipes and very narrow channels at supercritical flow <i>Y. Liu, T. Stoesser</i>	The impact of river ice submergence and length on local scour (**) <i>D. Sirianni, C. Valela, C. Rennie, I. Nistor, H. Almansour</i>	Direct visualization of hyporheic exchange in an emergent vegetation canopy (**) <i>S. Huang, J. Yang</i>	Density currents interacting with an array of in-line and emergent cylinders <i>A. Ricardo, G. Giampa, R. Ferreira, J. Ramos, M. Brito</i>
11:40	<i>Discussion Period</i>	<i>Discussion Period</i>	Experimental study of turbulent flow characteristics around a circular compound bridge pier <i>S. Reddy, V. Chandra</i>	Flow resistance in open channels with leafed flexible vegetation and large-scale bedforms (**) <i>G. Artini, S. Francalanci, L. Solari, J. Aberle</i>	An improvement to the particle tracking velocimetry algorithm applied to the study of a shallow mixing layer (**) <i>J. Restrepo-Grisales, S. Gaskin</i>
12:00			Live bed scour depth modelling around bridge pier using Support Vector Machine (**) <i>Nil, A. Baranwal, B. Das</i>	<i>Discussion Period</i>	<i>Discussion Period</i>
			12:20 Discussion Period		
12:15	Lunch Break, IAHR Fluvial Hydraulics Committee Meeting				

Tuesday – November 8th, Afternoon

Parallel Sessions 2					
13:15	A3: Flow in Straight and Compound Channels – Part I <i>Chair: Katinka Koll TU Braunschweig, Germany</i>	B1: Sediment Transport – Part I <i>Chair: Joe Aberle TU Braunschweig, Germany</i>	B2: Large-Scale River Morphodynamics – Part I <i>Chair: Volker Weibrecht ETH Zürich, Switzerland</i>	D2: Ecological Aspects of River Flows – Part I <i>Chair: Giovanni De Cesare EPFL, Switzerland</i>	F1: Extreme Events and Effects of Climate Change – Part I <i>Chair: Pierfranco Costabile University of Calabria, Italy</i>
13:20	A new perspective on turbulent boundary layer profiles <i>G. Smart</i>	Evaluation of critical shear stress in channel beds of fine gravel (**) <i>B. Oviedo Lorío, R. Murillo-Muñoz</i>	Saturation of curvature-induced secondary currents in relatively sharp bends: a two-dimensional modelling approach (**) <i>T. Lazzarin, D. Viero</i>	Flume study on hydro-morphologic changes provided by instream tree installations <i>I. Schnauder, K. Blanckaert</i>	The value of globally available data for flow predictions in small catchments: a case study of the Aa of Weerijs, The Netherlands <i>L. Umutoni, A. Jonoski, I. Popescu</i>
13:40	An iterative method for estimating the velocity dip positions across a river <i>A. Handique, A. Sarma, R. Bhattacharjya</i>	Modelling bedload particle travel lengths in rivers with different hydrologic regimes (**) <i>E. Papangelakis, B. MacVicar, A. Montakhab, P. Ashmore</i>	Application of convective flow model to a real meandering bend (**) <i>H. Zhang, W. Dai</i>	Fish trajectories over a full-scale model of a nature-like unstructured block ramp (**) <i>R. Eikenberg, J. Aberle, P. Andreasson, D. Aldvén, L. Persson</i>	Changes in the flow processes in the rivers of the Mura-Drava-Danube transboundary biosphere reserve <i>E. Tamás, L. Tadić</i>
14:00	Comparing shallow mixing layers over rough and smooth beds (**) <i>B. Cerino, S. Proust, C. Berni, V. Nikora</i>	Spatial and temporal variations of suspended sediment concentrations from different floodplain environments (**) <i>C. Salas, B. Rhoads</i>	Simulation of potential meandering belt width using a physics-based morphodynamic model <i>H. Amini, F. Monegaglia, M. Redolfi, M. Tubino, G. Zolezzi, S. Lanzoni</i>	Predicting spawning habitat distribution of <i>P. altivelis</i> in gravel-bed rivers by computational model <i>M. Harada</i>	Threshold identification using daily streamflow records for two stations along the Niger River, West Africa <i>A. Olusola, S. Ogunjo, S. Adelabu</i>
14:20	Investigation of turbulence characteristics and mixing layer thickness in gravel bed flows <i>D. Termini, F. Lavignani, N. Benistati</i>	Estimation of suspended-sediment rating curves in the Ca River Basin, Vietnam (**) <i>C. Pham Van, H. Le, D. Nguyen-Ngoc</i>	Restoration of channel meandering using current deflectors (**) <i>Y. Pi, C. Wu, Y. Cho, C. Zhang</i>	Linear theory for the formation of aquatic vegetation patches in rivers <i>C. Carbonari, G. Calvani, L. Solari</i>	High-resolution topographical data and high-performance-computing tools for the morphodynamical modelling of realistic flood events <i>S. Martínez-Aranda, D. Vericat, R. Batalla, P. García-Navarro</i>
14:40	Free surface flow past a single bar in a gravel stream and related hyporheic flow (**) <i>M. Ahadi, A.M. Ferreira da Silva, A. Button</i>	Fluvial erosion of cohesive glacial sediments: clays and tills from the Great Lakes and St. Lawrence Lowlands (**) <i>L. Gonthier, D. Yeats, S. Gaskin</i>	Meandering rivers in the midwestern US that anabranch: prevalence, morphological characteristics and power regimes (**) <i>T. Shukla, B. Rhoads</i>	Developing a new conservation management tool: the Mussel Biosensor <i>E. Curley, R. Thomas, C. Adams, A. Stephen</i>	GPU simulation of flood and erosion risk mitigation strategies in olive-grove basins <i>P. Bohorquez, F. Pérez-Latorre, I. González-Planet, R. Jiménez-Melero, G. Parra</i>
15:00	Discussion Period	Discussion Period	Discussion Period	Discussion Period	Discussion Period
15:15	Afternoon Break				
15:30	Lab Visits: Universities of Waterloo, McGill and Ottawa				
16:00	Greet and Meet Session (REMO)				

Wednesday – November 9th, Morning

08:15	Keynote Lecture 2 Channel bed incision in engineered rivers: characteristics and mitigation Dr. Astrid Blom, Professor, TU Delft, The Netherlands				
09:15	Morning Break				
09:45	Parallel Sessions 3				
	B3: Innovative Measurement Techniques <i>Chair: Patrick Grover BGC Engineering, Canada</i>	B4: Sediment Transport – Part II <i>Chair: Rui Ferreira IST, Portugal</i>	B5: Bifurcations and Confluences <i>Chair: George Constantinescu University of Iowa, USA</i>	C2: In-Stream Structures: Hydrodynamics, Scour and Riverbed Protection – Part II <i>Chair: Wim Uijttewaal TU Delft, The Netherlands</i>	F2: Extreme Events and Effects of Climate Change – Part II <i>Chair: Susanna Dazzi University of Parma, Italy</i>
9:50	Robust and accurate river flow measurement by Space-Time Image Velocimetry (STIV) with Improved Deep Learning Technique <i>K. Watanabe, Y. Minami, M. Iguchi, I. Fujita</i>	Transport-supply ratios in river channels <i>J. Haschenburger</i>	Flow partitioning at a bifurcation in the Upper Dutch Rhine (**) <i>M. Chowdhury, A. Blom, R. Schielen</i>	Roll waves on a laminar sheet flow produced by local disturbance <i>B. Yu, V. Chu</i>	Automatic calibration of a river reach in northern Italy by coupling a parallel 2D shallow water model and the PEST tool <i>A. Ferrari, M. D’Oria, R. Vacondio, P. Mignosa</i>
10:10	Detection of morphological changes for Wadi channel bed in the arid region using SFM Photogrammetry (**) <i>M. Al mamari, S. Kantoush, T. Sumi, M. Saber</i>	Living-Lab Rhine (LiLaR) – comparing Dutch and German sediment measurements in the border Rhine <i>M. Struck, N. Huber, G. Hillebrand, P. Onjira, A. Winterscheid, J. Brils, R. Schielen, J. Mol, C. Bode, A. van den Hoek, F. Siering</i>	3D CFD modeling of bed changes at a laboratory channel confluence <i>B. Balouchi, A. Mirzaahmadi, H. Bihs, N. Ruther</i>	An experimental study on scour beneath pipelines at river crossings <i>M. Ahadi, A.M. Ferreira da Silva, P. Grover, K. Lockwood</i>	Lag time predictions using characteristic times deduced by the 2D Shallow Water Equations at basin-scale (**) <i>K. Négyesi, E. D. Nagy, G. Barbero, G. Petaccia, C. Costanzo, P. Costabile</i>
10:30	Photogrammetry measurements of wave overtopping erosion on a seashore dike (**) <i>M. Ebrahimi, M. Van Damme, S. Soares-Frazão</i>	Sediment balance for the supply-limited Meuse River <i>H. Barneveld, T. Hoitink, R. Frings</i>	Observations and modeling of density-driven streamwise orientated vortices at a river confluence <i>J. Duguay, P. Biron, J. Lacey</i>	Investigation of vorticity and coherent turbulent structure in a 90° lateral water diversion with and without a vane-field <i>J. Baltazar, G. Bombar, E. Alves, A. Cardoso</i>	Influence of EURO-CORDEX ensemble on lumped flood impact indicators: a case study <i>R. Padulano, G. Rianna, P. Mercogliano, P. Costabile, C. Costanzo, G. Del Giudice</i>
10:50	Retrieving channel geometry and flow properties of the Nicolet River from Satellite Multispectral Imagery <i>B. Lak, S. Li</i>	Limits between surface and inner clogging of riverbed by fine sediment (**) <i>R. Dubuis, G. De Cesare</i>	Bed morphology characterization of an anabranching bifurcation-confluence of the Solimões River, Brazil <i>R. Gutierrez, F. Escusa, R. Almeida, M. Ianniruberto, C. Gualtieri</i>	Stability of consecutive stacked boulders behind Check Dams during flood stages <i>N. Fuchino, Y. Yasuda</i>	Response of the Lower Rhine River to climate change over the period 2010-2050 (**) <i>C. Ylla Arbós, A. Blom, R. Schielen</i>
11:10	Discussion Period	Experimental characterization of dry granular flows through sudden constrictions (**) <i>S. Mendes, R. Farias, R. Aleixo, M. Larcher, T. Viseu, R. Ferreira</i>	Laboratory study of density-driven streamwise orientated vortices at a symmetric confluence <i>J. Duguay, P. Biron, J. Lacey, C. Bergeron</i>	Impact of mud flow instabilities on hydraulic structures (**) <i>B. Yu, V. Chu</i>	Flood hazard mapping in river mouths: the effect of river bar formation and the phase lag between tides and river discharge <i>A. Ruiz-Reina, C. Zarzuelo, A. López-Ruiz</i>
11:30		Discussion Period	Discussion Period	Discussion Period	Discussion Period
11:45	Lunch Break				

Wednesday – November 9th, Afternoon

12:30	Video Clip Contest			
13:15	Parallel Sessions 4			
	A4: Physics and Modeling of Streamflows <i>Chair: Samuel Li Concordia University, Canada</i>	B6: Bed Forms <i>Chair: Gökçen Bombar Izmir Katip Çelebi University, Turkey</i>	C3: Dams and Rivers: Sedimentation, Regulation, Restoration and Removal <i>Chair: Jason Duguay Concordia University</i>	D3: Ecological Aspects of River Flows – Part II <i>Chair: Walter Bertoldi University of Trento, Italy</i>
13:20	Application of the extended Bernoulli equation to a potential flow in a rectangular contracted flume <i>U. Teschke, F. Ruhr</i>	Dune bed statistical analysis using multibeam echosound survey data <i>I. Cavalieri, L. Schippa</i>	Numerical modelling of navigable rivers: influence of navigation structures on the Meuse River flow <i>A. Patil, J. Lambrechts, I. Draoui, F. Fiengo Perez, E. Deleersnijder</i>	Thermal responsiveness of small streams in frigid winters <i>R. Ettema, E. Kempema</i>
13:40	The velocity of long wave in a channel of parabolic cross-section <i>S. Sokolov</i>	Bedform morphology changes due to plastic pollution: preliminary observations and potential implications <i>C. Russell, R. Fernández, D. Parsons, S. Gabbott</i>	Scale model study of simple energy dissipation features at low head dams <i>M. Provan, P. Knox, A. Rayner, A. Cornett</i>	Quantification of environmental DNA transport over a river network <i>L. Stancanelli, E. Ragno</i>
14:00	Mesh-free particle methods for simulation of fluvial processes, challenges and opportunities <i>A. Shakibaeinia, M. Jandaghian</i>	Free alternate bars in a German sand bed river (**) <i>T. Branss, J. Aberle, B. Hentschel</i>	Assessment of hydrological alteration in regulated water resources systems: a case study in the Júcar River basin (Spain) <i>S. Ghannem, R. Bergillos, J. Paredes-Arquiola, A. Solera, J. Andreu</i>	Hydraulic attraction at a downstream bypass for European eels (**) <i>S. Collier, R. Thomas, R. Wright, L. Carter, J. Bolland</i>
14:20	The discontinuous Galerkin method for river-delta continuum by means of a coupled 1D-2D shallow water model <i>I. Draoui, J. Lambrechts, V. Legat, E. Deleersnijder</i>	Formation of repeating bedforms (bars-flats) in ephemeral channels: from field observations to modelling (**) <i>G. Massera, A. Siviglia, M. Tubino, T. Cohen, J. Laronne, M. Dorman, I. Reid, D. Powell</i>	Numerical modelling investigation of low-water level events at a water intake near the Fort Frances-International Falls Dam <i>A. Pilechi, E. Murphy</i>	Individual and collective plants motion in a submerged, staggered, flexible, artificial canopy <i>L. Guiot, D. Doppler, J. Jerome, B. Löhner, J. Frölich, N. Riviere</i>
14:40	Experimental and numerical investigation of the flow-structure of river surf waves <i>P. Asiaban, C. Rennie, N. Egsgard</i>	Comparison of sand-bed river flow resistance calculations <i>D. Froehlich</i>	Numerical modelling to estimate the reservoir sedimentation due to the implementation of Chepete dam in Beni River, Bolivia <i>M. Jimenez, M. Heredia</i>	Experimental analysis on the stability of alternative gravel dikes during flood stages in channelized rivers (**) <i>P. Beretta Piccoli, Y. Yasuda</i>
15:00	Discussion Period	Discussion Period	Managing negative values in reservoir inflow computation- a case study <i>A. Shibu, S. Mukherjee</i>	Butterfly effect in a deterministic ecomorphodynamic model (**) <i>I. Cunico, W. Bertoldi, A. Siviglia, F. Caponi</i>
			15:20 Discussion Period	15:20 Discussion Period
15:15	Afternoon Break			
15:45	Lab Visits: Universities of Sherbrooke and Queen's			
16:15	Social Hour (REMO)			

Thursday – November 10th, Morning

08:15	Keynote Lecture 3 What braiding reveals about river morphology, bedload and channel change <i>Dr. Peter Ashmore, Professor, University of Western Ontario, Canada</i>				
09:15	Morning Break				
09:45	Parallel Sessions 5				
	B7: Morphological Response to Human Activities <i>Chair: Ronald Guierrez Pontifical Catholic Univ., Peru</i>	B8: Bank Erosion and Protection <i>Chair: Pascale Biron Concordia University, Canada</i>	D4: Stream Restoration and Conservation <i>Chair: Elli Papangelakis McMaster University, Canada</i>	E2: Contaminant Transport and Mixing Processes – Part II <i>Chair: Mário Franca KIT, Germany</i>	F3: Extreme Events and Effects of Climate Change – Part III <i>Chair: Michael Nones Polish Acad. Sciences, Poland</i>
09:50	The effect of land use changes on the morphology of a small rural stream in southwestern Ontario, Canada <i>S. Gardner, D. Nguyen, N. Sattolo, H. May, A. Binns, J. Levison</i>	Mechanistic 2D flow-erosion modelling of vegetated river banks <i>P. Perona, G. De Cesare, M. Schwarz</i>	Classification of mountain streams using Rosgen and Montgomery-Buffington methods (Case Study - Jajroud basin) <i>M. Pirestani, A. Gashtasebi</i>	Sediment and chemical transport modeling of a hypothetical tailings dam breach spill in the lower Athabasca River (**) <i>M. Taherparvar, A. Shakibaeinia, Y. Dibike</i>	How fast is “flashy”? Hydraulics of flood hydrographs in small urban rivers (**) <i>A. Montakhab, B. MacVicar</i>
10:10	Predicting response of channel width along an urbanizing river channel <i>V. Barlow, P. Ashmore, B. MacVicar</i>	Ship wave induced excess pore water pressure in riverbeds and banks - an investigation on silty sands <i>J. Rothschink, O. Stelzer</i>	Designing channel corridors to improve hydroecological conditions in suburban streams <i>J. Franssen, P. Villard</i>	Predicting sediment and heavy metal transport within the Lower Athabasca River using 1D numerical modelling <i>S. Kashyap, A. Petty, C. Leidl, S. Depoe</i>	Understanding the impacts of hydraulic uncertainties on urban flood mapping (**) <i>S. Abedin, B. MacVicar</i>
10:30	Evaluation of the impact of the Peruvian Waterway dredged channel in the bed morphodynamics of the Huallaga River <i>H. Valverde, L. Guerrero, C. Frías, J. Abad</i>	Experimental characterization of root-reinforced riparian sediment deposits in a restored and widened river course <i>G. De Cesare, M. Solioz, P. Perona</i>	Towards guidance on effective use of nature-based approaches to flood and erosion risk management in Canadian river basins <i>I. Vouk, S. Ferguson, E. Murphy, A. Pilechi, M. Provan</i>	Water pollution during floods: a protocol for measuring concentration and calculating mass discharge across a straight street (**) <i>C. Fagour, S. Proust, E. Mignot</i>	Numerical solution of Saint-Venant equations in flood wave prediction in the lower Tapi River, India <i>S. Sahoo, K. Devi, J. Khuntia, K. Khatua</i>
10:50	Modelling the impact of sand extraction from large rivers <i>A. Gasparotto, A. Nicholas, G. Sambrook Smith, A. Daham</i>	Geometric floodplain controls on riverbed elevation change within and between flood events (**) <i>S. Ahrendt, A. Blom, R. van Denderen, R. Schielen, A. Horner-Devine</i>	Providing greater variability, degrees of freedom, retention and detention for resilience in restored stream corridors <i>P. Villard, J. Franssen</i>	Different approaches for particle representation in plastic debris transport models <i>C. Yan Toe, W. Uijttewaal, D. Wüthrich</i>	The impact of flood waves on hydraulic structures <i>B. Yu, V. Chu</i>
11:10	Continuous monitoring of morphological changes from sediment augmentation by field measurements and flume experiments (**) <i>C. Mörtl, G. De Cesare</i>	Bedform observations at the operative stage of a groyne system in the Madre de Dios River, Peru <i>R. Gutiérrez, F. Escusa, F. Núñez-González, J. Moris, J. Jamanca</i>	Fulfilling Riverscape - a creative interdisciplinary approach <i>T. Arborino, S. Nguyen, G. De Cesare, P. Perona</i>	An innovative point location method for particle tracking models with application to water quality modeling in rivers and coastal waters <i>R. Boukhelif, A. Pilechi, S. Douglas</i>	Regional-scale 2D hydraulic modelling for the assessment of the residual flood hazard due to levee breaches <i>S. Dazzi, P. Mignosa, M. Pianforini, R. Vacondio</i>
11:30	Discussion Period	Discussion Period	Discussion Period	Discussion Period	Discussion Period
11:45	Lunch Break				

Thursday – November 10th, Afternoon

Parallel Sessions 6				
13:00	<p>B9: Large-Scale River Morphodynamics – Part II</p> <p><i>Chair: Jorge Abad RED YAKU, Peru</i></p>	<p>B10: Debris and Dam-Break Flows</p> <p><i>Chair: Sandra Soares-Frazão U. Cath. Louvain-la-Neuve, Belgium</i></p>	<p>C4: In-Stream Structures: Hydrodynamics, Scour and Riverbed Protection – Part III</p> <p><i>Chair: Emmanuel Mignot INSA-LYON, France</i></p>	<p>D5: Large Wood in Rivers and Streams</p> <p><i>Chair: Virginia Ruiz-Villanueva University of Lausanne, Switzerland</i></p>
13:05	<p>A multi-scale braided river substrate map – case study in the Rangitata</p> <p><i>J. Rogers, J. Brasington, J. Hoyle, J. Tonkin</i></p>	<p>Application of the SPH-Method to simulate debris flow in a torrent in Switzerland</p> <p><i>R. Züger, D. Farshi</i></p>	<p>Superposition principle for the stage discharge relationships of complex weirs</p> <p><i>I. Bechoua, N. Rivière, Y. Peltier, E. Mignot</i></p>	<p>Empirical prediction of large wood transport during flood events</p> <p><i>N. Steeb, A. Badoux, C. Rickli, D. Rickenmann</i></p>
13:25	<p>Coevolution of morphology, flow conditions and pulsed transport in a laboratory-scale braided river: numerical simulations</p> <p><i>J. Tunncliffe, P. Ashmore</i></p>	<p>Numerical simulation of debris flows occurred in Marumori in 2019 and countermeasures against debris flow using the numerical simulation result</p> <p><i>H. Takebayashi, M. Fujita</i></p>	<p>Similarity in longitudinal decays of free jump and submerged hydraulic jump</p> <p><i>S. Choi, S. Choi</i></p>	<p>Variation of large wood load in a river affected by a volcanic eruption</p> <p><i>A. Iroumé, K. Sanchez, N. Ampuero, L. Picco</i></p>
13:45	<p>Are we measuring morphological changes in gravel bed rivers with the appropriate frequency?</p> <p><i>E. Pandrin, W. Bertoldi</i></p>	<p>Experimental study on the breach of landslide dams with different material compositions</p> <p><i>J. Yang, Z. Shi, S. Soares-Frazão, H. Zheng, D. Shen</i></p>	<p>Riverbed protection due to consecutive stacked boulders at downstream of apron in movable weir</p> <p><i>S. Suzuki, Y. Yasuda</i></p>	<p>Detecting instream wood transport by a custom Neural Network and Radio Frequency Identification (RFID) technology</p> <p><i>J. Aarnink, M. Vuaridel, V. Ruiz-Villanueva</i></p>
14:05	<p>Dynamic river widening under variable bed-load supply</p> <p><i>C. Rachelly, D. Vetsch, R. Boes, V. Weibrecht</i></p>	<p>Frozen in time: continuous measurements in a dam breach flow</p> <p><i>T. Alvarez, R. Aleixo, S. Mendes, S. Amaral, T. Viseu, R. Ferreira</i></p>	<p>Fully Lagrangian mesh-free modelling of river ice interaction with control structures</p> <p><i>C. Billy, A. Shakibaeinia, T. Ghobrial</i></p>	<p>Dynamics of submerged large wood debris in reservoirs and their potential risks to hydraulic structures</p> <p><i>S. Takata, T. Koshiba, T. Sumi</i></p>
14:25	<p>Long-term reach-scale suspended sediment budget of a small creek with cohesive banks</p> <p><i>N. Al-Ghorani, M. Hassan, E. Langendoen</i></p>	<p>Overtopping failure of a homogeneous earth-fill dam with two different breach sizes and rough downstream conditions</p> <p><i>E. Taşkaya, Z. Büyüker, B. Öztürk, G. Bombar, G. Tayfur</i></p>	<p>Three-dimensional numerical modeling of a vertical slot fish pass with complex roughness distribution</p> <p><i>F. Scolari, S. Schwindt, S. Haun, S. Wieprecht</i></p>	<p>Will woody debris accumulation alter the self-cleaning ability of a piano key weir?</p> <p><i>M. Panthi, B. Crookston</i></p>
14:45	<p>Discussion Period</p>	<p>Discussion Period</p>	<p>Discussion Period</p>	<p>Discussion Period</p>
15:00	Break			
15:15	Closing Ceremony			