



PRE-CONFERENCE PROGRAMME

DAY 0

Tuesday 13th December 2022

Time	Events	Venue
09:00-09:30	Registration	On Site Registration
09:30-17:00	Workshop on Sustainable Urban Drainage System	IGCS Seminar Hall, 4 th Floor, Bioscience Building Block 2
09:30-17:00	Workshop on Textile Technology and its application on climate change adaptation	DOE Seminar Hall, 2 nd Floor Department of Ocean Engineering
	LUNCH BREAK (12:50 to 13:50, Terrace	@ IITM)
17:00-19:00	Conference Registration	IC&SR Building, IIT Madras
	DINNER (19:00 TO 21:00)	





TECHNICAL PROGRAMME

DAY 1

Wednesday 14th December 2022

07:30-08:45	Registration	Venue: IC&SR Building, IIT MADRAS
08:45-09:45	INAUGURATION	AUDITORIUM

Plenary Session 1 (10:00 - 10:50)

Plenary Session 1 Chair: Prof. Sundar V.		Venue: AUDITO 14 Dec. 2022	
10:00-10:10	About the IAHR Book: History of Water,	Dr Hyoseop Wo	0
10:10-10:20	National Technological Centre for Ports, Waterways and Coasts, Prof. K. Murali		
10:20:-10:50	Keynote 1 Hybrid Defence System for Inundating T from a River - Prof. Norio Tanaka, Sai		

TEA BREAK (10:50 - 11:20)

Parallel Sessions 1 to 4 (11:20 - 12:50)

Paralle	Parallel Session 1: River Hydraulics Venue: AUDITORIUM		Venue: AUDITORIUM	
Chair:	TBC		14 Dec. 2022 11:20-12:50	
Time	Paper ID	Paper Title and Author(s)		
11:20	ID047	· ·	Total Load Transport model for Sand Bed Rivers Urvashi Malani, Sahita I. Waikhom and Sanjay m. Yadav	
11:35	ID078	•	Maintenance of the Fairway at River Confluence Using Spur Dike V Raam Balaji, Malasani Gopichand, K Murali and Venu Chandra	
11:50	ID081	Prediction of Scour Depth Around Bridge Piers Using Artificial Neural Networks Siva Krishna Reddy and Venu Chandra		
12:05	ID139	Numerical Simulation of Scour Around Tandem Piers Using Flow 3D. Hansraj Uke, Rutuja M Chavan		
12:20	ID140	Modelling Morphological Processes in The Vi Partial Closure of The River Mouth Avula Arun Kumar, Mutukuru Gangireddy	•	

	Parallel Session 2: Computational Hydraulics		Venue: HALL 1
		14 Dec. 2022 11:20-12:50	
Time	Paper ID	Paper Title and Author(s)	
		Numerical Simulation of Hydrodynamics and	Morpho dynamics in Thane
11:20	ID082	Creek, India	
		Mahadevan Aparna, Nandhakumar Saiche	enthur and Kantharaj Murali
		Comparison of Physical and Numerical Analy	sis to Study Effect of Discharge
11:35	ID110	and Water Depth on Spillway Downstream \	Vater Quality
		Sushma Vyas and Y. N. Srivastava	
		Simulation of Bore Using Conservative Shall	ow Water Equations and ENO and
11:50	ID065	WENO Schemes	•
		Srimathy K and K Murali	





12:05	ID096	A Mesh-Free Non-Newtonian Approach for Modelling of Embankment Failure Naveed U,I Hassan Bhat, Gourabananda Pahar and Anirban Dhar
		Naveed O,I Hassail Bliat, Gourabananda Panar and Alliban Bliat
		Numerical Investigations into Wave Attenuation Characteristics of Vegetation
12:20	ID113	Belt in Terms of Vortex Shedding Due to Different Arrangement Configuration
		N Hari Ram, Shaswat Saincher, V Sriram
		Experimental Study on Liquid Sloshing Dynamics in A Sway Excited
12:35	ID158	Rectangular Tank
		Sahaj K.V, Shwetha Shri and T. Nasar

Parallel Chair:		Climate Change	Venue: HALL 2 14 Dec. 2022 11:20-12:50
Time	Paper ID	Paper Title and Author(s)	
11:20	ID157	Anticipated Effects of Climate Change in N Guinevere Nalder	New Zealand
11:35	ID075	Climate Change and Crop Yield: Prediction Arunya KG , Krishnaveni M	ns based on Machine Learning
11:50	ID129	Do CMIP6 GCMs outperform CORDEX RCMs in simulating near-surface wind speed climate over the Indian ocean? Naresh Kumar Goud Lakku, Manasa Ranjan Behera	
12:05	ID141	Climate adaptation along the German coast of the Baltic Sea Dirk Fleischer , Arne Arns, Jürgen Stamm.	
12:20	ID060	Long-Term Impacts of Climate Change on Reinforced Concrete Berthing Structures. Santosh Kumar B, S A Sannasiraj, K Murali	
12:35	ID067	Combined Storm Surge and River Flow Sir East Coast of India. B.Sridharan, Vikram Pratap Singh, Dhruba	- ' ' '

Paralle	Parallel Session 4: Maritime Hydraulics Venue: HALL 3		
Chair:	Chair: TBC 14 Dec. 2022 11:20-12:50		14 Dec. 2022 11:20-12:50
Time	Paper ID	Paper Title and Author(s)	
11:20	ID091	Hydrodynamic Investigation on Wind Effects on Wave Overtopping at Vertical Seawalls	
		Swapnadip De Chowdhury, Jian Guo Z	hou, Tim Pullen
		Application of IITM-RANS3D to Wave-Brea	aking and Wave-Structure
11:35	ID061	Interaction Problems	
		Shaswat Saincher , V Sriram	
		Wave Transmission Characteristics of Slot	ted Vertical Wave Barriers in
11:50	ID146	Random Waves	
		Subramaniam Neelamani, Alanoud Al-	Ragum
		Numerical Investigation of Effect of Twin	Island Structure and Its Impact
12:05	ID155	on Burble	
		Ankit Nehra , Vijayakumar R	
		Numerical Investigation of Resonant Water	
12:20	ID093	Barge and a Vertical Wall Using the IMPLO	G_R Method
		Vineesh P, V Sriram	

LUNCH (12:50-13:50)





Parallel Sessions 5 to 8 (13:50-15:20)

Parallel Chair: 1		Surface Water Resources	Venue: AUDITORIUM 14 Dec. 2022 13:50-15:20
Time	Paper ID	Paper Title and Author(s)	
13:50	ID019	Dibhang River Training Studies at Arunachal Pradesh, India P K Suresh , Sundaravadivelu Ranganathan and Nilanjan Saha	
14:05	ID015	Geospatial Assessment of Pallikaranai Marsh in Tamil Nadu (India) - A step towards urban flood resilience Reshma R , Soumendra Nath Kuiry	
14:20	ID053	Ensemble Techniques for Correlating Stream Gauging stations Shreenivas Londhe, Preeti Kulkarni and Pradnya Dixit	
14:35	ID135	Modelling on Monthly Streamflow Based on Two Different DEM Resolutions of Basins I Gede Tunas, Sukandi Samatan	
14:50	ID143	Effect Of Changes in Environmental Flow Cau Anthropogenic Changes on The Habitat of Ri Joo-Heon Lee , Seo-Yeon Park, Young-Jun I	ver Ecosystems.

Parallel Chair: 7		Environmental Management	Venue: HALL 1 14 Dec. 2022 13:50-15:20
Time	Paper ID	Paper Title and Author(s)	
13:50	ID055	Livelier River Quality Naturally Eny Suria Binti A Jalil, Nik Kun Bin Nik Man and Shanker Kumar Sinnakaudan	
14:05	ID026	Eliminating Fixation of Alternate Bars by Us Ryotaro Endo, Takao Tamura and Yasunori	
14:20	ID037	Assessment Of the Status of The Hikkaduwa Marine Sanctuary D. P. C. Laknath, T.U.S. Manamperi , H.P.G.M. Caldera and K.K.P.P. Ranaweera	
14:35	ID014	Dissolution And Precipitation Effect on Salinity Ingestion During Flowthrough Biotic and Abiotic Porous Media Bihung Narzary, Soumen Maji and Medalson Ronghang	
14:50	ID149	Performance Evaluation of surface wind spetthe West coast of India with Era-interim, IN Pabali Mukherjee	

	Parallel Session 7: Maritime Hydraulics Chair: TBC Venue: HALL 2 14 Dec. 2022 13:50-15:20		Venue: HALL 2 14 Dec. 2022 13:50-15:20	
Time	Paper ID	Paper Title and Author(s)	14 Dec. 2022 13:30 13:20	
13:50	ID023	Stability Analysis of Breakwater In Andhra Pradesh Through Numerical Modelling Sundaravadivelu Ranganathan, Sakthivel Sundaravadivelu and Kavitha P		
14:05	ID006		Numerical Modelling of Wave Impact on Floating Bodies Arya Thomas, V K Srineash and Manasa Ranjan Behera	
14:20	ID033	Design of Breakwater with Permissible Overtopping Discharge Through Wave Flume Studies for The Development of Port A V Mahalingaiah , Uday B. Patil and Ganesh N. S.		
14:35	ID147	Wave Force on a Partially Immersed Caisson Supported on Piles Vasanthakumar S, Sannasiraj S.A, Sundar V, Karthik Ramanarayan S		
14:50	ID064	Numerical Analysis of Modular Floating Solar Farms Under Wave Motion. Dharma Sree K K, Adrian Wing-Keung Law, Dawn Sok Cheng Pang, Tan Sze Tiong, Wang Chien Looi, Jernice Kew Huiling, Seow Wei Kiong, Vincent Lim Han		





15:05	ID160	Hexagon Tetrapod for Seawall at Mukkachery Chandramohan P V
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		Surface and Ground Water Resources	Venue: HALL 3
Chair: TBC			14 Dec. 2022 13:50-15:20
Time	Paper ID	Paper Title and Author(s)	
13:50	ID156	Performance Of Acoustic Doppler VECTRINO Profiler in Measurement of Velocity Profile in Mobile Bed Channel. Gurugubelli Yatirajulu , Laxman Rathod, P V Timbadiya, Bandita Barman	
14:05	ID052	Experimental Study of Turbulent Flow Characteristics Around a Circular Bridge Pier Siva Krishna Reddy, Venu Chandra	
14:20	ID048	Understanding the Driftage Behaviour of Multiple Debris Due to Tsunami Induced Flows on a Sloped Bed N. R. Josiah, S. Araki, D. P. C. Laknath	
14:35	ID133	Simulation-Optimization Based Inverse Groundwater Modelling to Estimate Aquifer Parameters K. Swetha, T.I. Eldho, L. Guneshwor Singh, A. Vinod Kumar	
14:50	ID107	Estimation of Surface Soil Moisture of The B Using SAR Remote Sensing Ahmed Hossain , Shampa	rahmaputra Basin in Bangladesh

TEA BREAK (15:20 - 15:50)

Plenary Session 2 (15:50 – 16:50)

Plenary Session	on 2	Venue: AUDITORIUM
Chair: Prof Radiant Triatmadja		14 Dec. 2022 15:50-16:50
	Keynote 2	
15:50-16:20	Experiences and observations from the Flood Disaster 2021 in Germany,	
	DrIng. Holger Schüttrumpf, RWTH Aachen University, Germany	
	Keynote 3	
16.20 16.50	Ocean Waves as a Link Between Met Ocean Time Scales: Turbulence, Waves,	
16:20-16:50	Weather, Climate; and Between Environments: Deep Water, Coasts, Marginal Ice	
	Zone, Prof. Alexander V Babanin, University of Melbourne, Australia.	

Special Session 1 and Parallel 9 to 10 (16:50-18:20)

Special Session 1: Coastal Engineering Moderator: Prof. Sannasiraj S A & Dr. Sriram V	Venue: AUDITORIUM 14 Dec. 2022 16:50-18:20		
Invited Lectures			
Dr. Balaji, Professor, IIT – Bombay			
Mr. P. N. Ananth, Vice President and Head of Energy and Marine	Department, COWI India (P) Ltd.		
Dr. P.V. Chandramohan, President: Technical, Navayuga Engg. Co. Ltd.			
Dr. Sundaravadivelu, Professor Emeritus, IIT- Madras			
Dr. K G S Sharma, General manager, RITES Ltd.			
Dr. Kumaran Raju, Principal Scientist, National Technology Centre for Ports Waterways and Coasts			
Mrs. Suganya, Senior Engineer, National Technology Centre for Ports Waterways and Coasts			





Parallel Session 9: Statistical Methods Venue: HALL 2			Venue: HALL 2
Chair: TBC 14 Dec. 2022 16:50-1			14 Dec. 2022 16:50-18:20
Time	Paper ID	Paper Title and Author(s)	
16:50	ID150	Case Study Using Artificial Intelligence and Machine Learning Methods to Predict Unknown Water Level in North Korean Dams Joo bum. Park, Seung Hee. Lee, Sun Iin. Kim	
17:05	ID130	Estimation of Probable Maximum Tropical Cyclone Parameters for Bay of Bengal and Arabian Sea. Satish Kumar , Manasa Ranjan Behera, Saikrishna Nadella, Vinod Kumar A	
17:20	ID100	Application Of ANFIS and Linear Regressions into Prediction of Reservoir Outflow. Biswajit Nayak, Janhabi Meher, Minakshee Mahananda	
17:35	ID145	A Data Driven Artificial Viscosity Method for Shock Capturing Rahul Saroj Gupta, Prabhakar Akurati, Ritwik Ghoshal	

Parallel Session 10: Turbulence Modelling Chair: TBC		: Turbulence Modelling	Venue: HALL 3 14 Dec. 2022 16:50-18:20
Time	Paper ID	Paper Title and Author(s)	
16:50	ID039	Effect of Entrained Air Bubbles on Shock Waves and Cavitation Erosion Dingkang Xia, Jianhuawu, Kunpeng Su and Liu Yang	
17:05	ID001	Numerical simulation of submerged hydraulic jump using a URANS model Seongwook Choi and Sung-Uk Choi	
17:20	ID045	Turbulence anisotropy and length scales around a straight spur dike Tapas Kumar Pradhan and Venu Chandra	
17:35	ID051	Simulation study for Spatial Variation of Turbulence Characteristics Around Circular Bridge Pier USING STANDARD K-ε turbulence model Praveen Rathod and V.L.Manekarb	
17:50	ID162	Numerical Modelling of Ship Waves and Induced Sediment Resuspension In The Hooghly River, India Mainak Chakraborty , V Sriram, K Murali .	

ICE BREAKER (19:00 – 20:30)





DAY 2

Thursday 15th December 2022

Parallel Sessions 11 to 14 (09:00-10:30)

Parallel Session 11: Surface Water Chair: TBC			Venue: AUDITORIUM 15 Dec. 2022 09:00-10:30
Time	Paper ID	Paper Title and Author(s)	
09:00	ID018	Estimation of Braided River Bathymetry in Poorly Gauged Rivers Using Optical Images for Estimation of River Erosion Mohammad Muddassir Islam, Israt Jahan Nejhum, Md Manjurul Hussain and Shampa	
09:15	ID138	In-Stream and Floodplain Sand Mining Impacts in An Alluvial River – A Case Study of Thoubal River, Manipur, India Mukesh Kumar Yadav, Ngangbam Romeji and Chesabam Sonali	
09:30	ID041	Evaluation Of Predictive Skill of Short-Term Raw Ensemble Forecasts for Mapping of Extreme Floods Nithila Devi. N, Soumendra Nath Kuiry	
09:45	ID097	On Applicability of Local Inertia Model for Integrated Surface-Subsurface Flow Systems. Alok Kumar, Gourabananda Pahar	
10:00	ID098	Depth-Averaged Modelling of the Free Surface Obstructions Naveed Ul Hassan Bhat, Gourabananda Pa	

Parallel Chair:		2: Maritime Hydraulics Modelling	Venue: HALL 1 15 Dec. 2022 09:00-10:30
Time	Paper ID	Paper Title and Author(s)	
09:00	ID063	Simulation of Wave Climate and Wave Energy in South-Western Coast of Sri Lanka D. P. C. Laknath, I G I K Kumara , H.P.G.M. Caldera, K.K.P.P. Ranaweera	
09:15	ID092	A Meshless Numerical Method for Solving the Water Equations D Satyaprasad , S. Sundar, Soumendra Nat	
09:30	ID086	Mesh Transformation Effects in Three-Dimensional Hydrodynamic Modelling of The Gulf of Kachchh Thankachan Susmitha, Kanakkassery Raju Sidharth, Nandhakumar Saichenthur, Kantharaj Murali	
09:45	ID088	Analysis of trends in the significant wave height over the Northern Indian Ocean Dhanya Mol P , Agilan V., Anand K V.	
10:00	ID123	Effect Of Bottom Friction and Wind Drag Coefficient on Tropical Cyclone Storm Surge Hindcast in The Bay of Bengal V G Shashank , V. Sriram, Holger Schüttrumpf, S. A. Sannasiraj	
10:15	ID007	Shoreline Restoration North of Pondichery Po Between Submerged Reef and North Breakw Sundaravadivelu Ranganathan, Sakthivel Sur and Kreesa Kumaran.S	ater .





Parallel	Parallel Session 13: Environmental Management Venue: HALL 2			
Chair: TBC 15 Dec. 2022 09:00- 1			15 Dec. 2022 09:00-10:30	
Time	Paper ID	Paper Title and Author(s)		
09:00	ID108	A Study of Groundwater Contamination and Its Probable Protective Measures from Medical Waste in Kokrajhar, Assam, North East India Pwjwngsar Basumatary, Soumen Maji, Yachang Omo		
09:15	ID016	The Study on The Hydraulic Control Concept of The Yodo River Basin That Utilizes a Part of The Reclaimed Land of The Ogura-Ike Pond as a Retarding Basin Yuko Ishida and Yoshiya Ogawa		
09:30	ID004	Investigation on the Performance of Attached Growth Biological System for Instream Treatment of Municipal Wastewater Mohammed Iqbal Thayyil and Ligy Philip		
09:45	ID114	Political Connectivity, Social Capital and Multidimensional Coastal Vulnerability Index in India Benisha G , Sabuj kumar Mandal, Unmesh Patnaik		
10:00	ID163	Fluid Ecologies, Sovereignty and Colonialism: F Riverine Islands in Colonial India S. Mahendranath, John Bosco Lourdusamy	Princely Contestations for	

Parallel Session 14: Coastal Hydraulics Chair: TBC		: Coastal Hydraulics	Venue: HALL 3 15 Dec. 2022 09:00-10:30
Time	Paper ID	Paper Title and Author(s)	
09:00	ID134	Performance Evaluation of Iyzenga over Stumpf's Model on Satellite Derived Bathymetry. Jasmin Bar, M. Selva Balan	
09:15	ID009	Founding Level and Fixity Depth of Pile in Layer Soil with Weathered Rock and Basalt Rock. Sakthivel Sundaravadivelu, Sundaravadivelu Ranganathan, Kavitha Perumalsamy, Sowmiya S	
09:30	ID008	Scouring of Sandy Bed Around Curved Seawalls Due to Extreme Wave Events. Daineymol Thomas and K V Anand	
09:45	ID002	Numerical Simulation of Driftwood Generation Modelling with Tsunami Flow Using 2d Flood Model and Driftwood Dynamics Model. Kang Taeun, Chang-Lae Jang	
10:00	ID043	Experimental Investigation of Tsunami Bore Momentum Reduction Using Vegetation Harish S , B. Jochems, Jan Oetjen, Holger Schüttrumpf, V. Sriram, S.A. Sannasiraj	

TECHNICAL TOUR (10:30-19:00)
CULTURAL PROGRAMME (19:00-19:45)
BANQUET (19:45-21:45)





DAY 3

Friday 16th December 2022

Parallel Sessions 15 to 18 (09:00-10:30)

		.5: Water Quality	Venue: AUDITORIUM 16 Dec. 2022 09:00-10:30	
Time				
09:00	ID094	Seasonal And Spatial Variation of Water Quality Parameters of Mula Mutha River, Pune, India. Jitesh Narottam Vyas, R. B. Deogade, Supriya Nath and Dudekula Nikhil Kumar		
09:15	ID011	Groundwater Quality Near the Nonai River in Udalguri District, Assam. Medalson Ronghang, Partha Jyoti Sarmah, Irfan Kamal, Soruj Das, Jintu Moni Kalita and Zico Zemin		
09:30	ID125	Study of Groundwater Quality and Its Sustainability Using GIS Techniques in Kokrajhar, Assam, North East India. Swdwmsri Brahma and Yachang Omo		
09:45	ID137	Ecohydrological Response of Maklang-Tuyungbi-Taret Lok Biodiversity Hotspot River Catchment, Manipur, India. Victoria Ningthoujam, Ngangbam Romeji, Gunadas Singh Keisam, Jayalaxmi Ngasepam and Khuraijam Susilchandra		
10:00	ID154	Risk Assessment and Fish Habitat with The Stage of River Improvement. Yoshiaki Seki , Kohji Tanaka		

Paralle Chair:		.6: Maritime Hydraulics	Venue: HALL 1 16 Dec. 2022 09:00-10:30
Time	Paper ID	Paper Title and Author(s)	
09:00	ID042	Influence of Cross Currents on Inland Vessel Movement - A Review Malasani Gopichand, Murali K And Venu Chandra	
09:15	ID136	Dredging Practice in Indian Ports an Overview Hradaya Prakash , N G Gogate, L R Rangana	
09:30	ID151	Estimation of Maintenance Dredging Quantity Using Numerical Modelling Technique in Thane Creek Mandar Bharat Gavali, Balaji Ramakrishnan	
09:45	ID115	Modelling the Effects of Cyclones on Sediment Transport and Morphodynamics in Bay of Bengal Region Rohini S , Sannasiraj S.A., Sundar V., Dhananjayan M.	
10:00	ID159	Numerical Investigations on Different Shapes of Offshore Fish Cages Subjected to Regular Waves Shaik Abdul Shareef, Nasar Thuvanismail, Pawan Kumar, Eslavanth Sai Kiran Naik	
10:15	ID103	Progressive Damage Behaviour of Jacket Struc Ingle Utkarsha B., Anil Kumar Dash	ture in A Ship Collision

Parallel Session 17: Surface Water Resources Chair: TBC		17: Surface Water Resources	Venue: HALL 2 16 Dec. 2022 09:00-10:30
Time	Time Paper ID Paper Title and Author(s)		
09:00	ID148	A Review of Various Modelling Techniques Susceptibility Analysis and Mapping in Mou Abhimanyu Singh Pathania , Mahesh Pa	ntainous Regions.
09:15	ID119	Disposal of Stormwater Flows Generated by Rainfall Events. Induka Werellagama , Gregory De Costa	,





09:30	ID161	The Early-Warning System to Predict Sediment Flux in the Mountain Basin during Typhoon Events Hao-Che Ho.
09:45	ID066	River discharge control on tidal dynamics in Narmada estuary P Vengadesan , S A Sannasiraj, S Murty Bhallamudi

	Parallel Session 18:Water Distribution & Sensor Network Venue: HALL 3		
Chair:	Chair: TBC 16 Dec. 2022 09:00-1		:00-10:30
Time	Paper ID	Paper Title and Author(s)	
09:00	ID030	A Study of Clean Water Supply After Earthquake at Lombok Uttara Indonesia. Ari Ramadhan Hidayat, Djoko Legono, Intan Supraba and Radian Triatmadja	
09:15	ID035	Application Of Substitution Theorem for Reorganization of a Water Distribution Network. Raman Balireddy , Anjan Chakravorty, S. Murty Bhallamudi and Soumendranath Kuiry	
09:30	ID036	A Quick Method to Determine Tank Capacity in the Pipe Network D Fluctuation of Domestic Water Demand. Radianta Triatmadja , Djoko Legono and Intan Supraba	Due to Daily
09:45	ID102	Comparing The Energy Consumption Routing Protocols and Cooper Communication Technique in Underwater Acoustic Sensor Network Review. A.Kannappan and R.M.Bommi	

TEA BREAK (10:30 - 11:00)

Plenary Session 3 (11:00 - 13:00)

Plenary Session 3		Venue: AUDITORIUM
Chair:		16 Dec. 2022 11:00-13:00
	Keynote 4	
11:00-11:30	UAV-based Remote Sensing of Water Quality in	Coastal Environment for
	Engineering Applications- Prof. Adrian Wing-	Keung Law, NTU, Singapore
	Keynote 5	
11:30-12:00	Urban Floods in India: An Emerging Hydrologic	Challenge,
	Prof. Mujumdar P. P., IISc Bangalore, Ind	lia
	Keynote 6	
12:00-12:30	The need for and characterization of fully devel	loped flow in open channels.
	Prof. Ram Balachandar, University of Win	dsor, Canada
	Keynote 7	
12:30-13:00	Applications of Systems Analysis Techniques to	Resolve Inter-State Water
	Sharing Disputes, Prof. Jain S.K., IIT Roorke	ee, India

LUNCH (13:00 - 13:50)





Special Session 2 and Parallel Sessions 19 to 20 (13:50-15:20)

Special Session 2: Water Security and Climate Adaptatio Chair: TBC		: Water Security and Climate Adaptation	Venue: AUDITORIUM 16 Dec. 2022 13:50-15:20
Time	Paper ID	Paper Title and Author(s)	
13:50	1	Invited Lecture: Prof. Mukand Singh Babel	
14:05	ID068	Assessment of Water Quality in Indravati Subb Yuvaraja P , Manjula R., Venkateswarlu Ch.	pasin using ARCSWAT
14:20	ID005	A Qualitative Assessment for Water Management of Water Management for A Small River Basin Minh Ngoc Trinh	
14:35	ID128	Tropical Cyclone Activity Under Climate Change Over North Indian Ocean Raviraditya Singh and Manasa Ranjan Behera	
14:50	ID083	Flood Risk Assessment in The Yamato River Sy Using Large-Scale Ensemble Data. Daiki Omori , Kohji Tanaka and Akira Kurihara	·
15:05	ID126	Assessment Of Coastal Vulnerability Considering Ashiq Ahmed M, Nilanjan Saha, Sannasiraj S	

	Parallel Session 19: Surface & Ground Water Resources Chair: TBC Venue: HALL 2 16 Dec. 2022 13:50-15		
Time	Paper ID	Paper Title and Author(s)	
13:50	ID058	Comparative Evaluation of Monthly Rainfall Es Programming and Multiple Linear Regression Azazkhan i. Pathan, and Saif Said	timates Using Gene Expression
14:05	ID013	Urban Flood Modelling and Analysis of Recent Floods of Hyderabad 2020 Using PCSWMM: A Case Study Aadhi Naresh , M. Gopal naik, and S. Harish	
14:20	ID027	A Critical Review on Flow Over Fluvial Bed-Forms and Research Directions Mahesh Patel, Ajaz Ahmad mir and Bimlesh Kumar	
14:35	ID070	By-Pass Tunnel- A lifeline for Run-Of-River Hydro Projects M. K. Verma, M Z Qamar , A P Meshram and DR Neena Isaac	
14:50	ID022	Simplified Process Model Representation of Lo Techniques for Watershed Scale Analysis Sreethu S , Balaji Narasimhan and S. Murty B	·

Parallel Session 20: Maritime Hydraulics Chair: TBC Venue: HALL 3 16 Dec. 2022 13:50		Venue: HALL 3 16 Dec. 2022 13:50-15:20	
Time	Paper ID	Paper Title and Author(s)	
13:50	ID040	Estimation of Shoreline changes along Kozhik Remote Sensing Saikrishnan K ., K.V. Anand and Agilan V.	ode coast using High-Resolution
14:05	ID117	Efficiency Improvements from Rounded Oscill and Implications for Coastal Protection Lachlan Hick, Danica Tothova, Richard Man	
14:20	ID104	Shoreline Oscillations Around a Pair of Breakv in Kerala Kunhimammu Paravath , Nasar T	vaters at Ponnai Fishery Harbour
14:35	ID112	Coastal Morphological Changes Due to The Ni India Gracy Margret Mary R, Sannasiraj S A, Sur	,





14:50	ID111	An Empirical Model for Natural Beach Erosion Under Waves Ye Htet Oo, Hong Zhang
15:05	ID118	Digital Transformation for Managing Offshore Structures S Karunanithi, Praveen Bhat, Nitin Nehra, Amit Jain, Rachit Agarwal

FEEDBACK & CLOSING (15:20 – 16:20)

HIGH TEA (16:30 - 17:00)