Smart Rivers 2022 論文リスト （テーマ別）

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※赤字は日本からの提出論文

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- Continuous Management of the Channel Design to Optimize Navigability in the Middle Paraná River Waterway: “Santa Fe – Confluence” Argentina (M. L. Marpegan and L. A. Temer)
- Experimental Study on Flow Characteristics Around a Submerged Half-Buried Pipeline (Zishun Yao, Lidi Shi, Shoupeng Xie, Peng Li, and Dawei Guan)
- Field Measurements of Flow Velocities in Propeller Jets (Irene Cantoni, Arne Van Der Hout, Erik Jan Houwing, Alfred Roubos, and Michel Ruijter)
- Field Observation and Experimental Study on the Interaction Between Ship Waves And Vertical Wave Dissipation Revetment (Liehong Ju, Jingxin Huang, and Junning Pan)
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- Presenting the Work of PIANC TG 234 “Infrastructure for the Decarbonisation of IWT (Mark Van Koningsveld and Gernot Pauli)
- The Application of Beidou High-Precision Positioning Technology in the Deformation Monitoring of Ship Locks (Haizun Huang, Shihua Qin, Chihua Wang, Weixun Fang, Yulong Wang, Hao Gong, Dongjie Ning, and Jian Shi)
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- Research on Theoretical Framework and Implementation Path of Green Maintenance of Inland Waterway (Zhaoxing Han, Chaohui Zheng, Wenxi Jiang, Jinxiang Cheng, and Liguo Zhang)
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- Shoreside Power at Berths for Inland Navigation Vessels – How to Make Available a Harmonised System of Shoreside Power Access on the Rhine to Reduce Air and Noise Pollution (Raphaël Wisselmann and Kai Kempmann)
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- Solar Parks and Wind Farms Along Inland Waterways – Mitigating Measures Concerning Hindrance for Vessel Traffic (Otto C. Koedijk)
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- Study on Prediction Method for Compression Scour Depth of River-Crossing Bridge (Qianqian Shang, Hui Xu, and Jian Zhang)
- Sustainable Management of the Navigability of Natural Rivers -PIANC WG 236- (Calvin Creech, Erik Mosselman, Jean-Michel Hiver, and Nils Huber)
- The Design of Safety Monitoring System for Navigation Hubs Built in Plain Area (Yutang Ding, Yangyang Lu, and Guowen Xiong)
- The Navigable Frontier Canal of the African Rift (J. M. Deplaix)

Inland Navigation Structure

- A Modernized Safety Concept for Ship Force Evaluations During Lock Filling Processes (Fabian Belzner, Carsten Thorenz, and Mario Oertel)
- Analysis of Piano Key Weir Drainage Characteristics (Zixiang Li, Jiayi Xu, Yanfu Li, and Changhai Han)
- Analysis on Throughput Capacity of Water-Saving Ship Lock in Simulation Method (Ying Tang, Chunze Liu, Fengshuai Cao, and Jianping Shang)
- Applicability of the Blue Wave to the Canal from Villiers to Beaulieu (J. M. Deplaix)
- Benchmark of Turning Basin Options for the ECMT Class V Network of Nord-Pas-de-Calais, France (Sebastien Page, Marc Mansuy, Katrien Eloot, Maxim Candries, and Roeland Adams)
- Comparative Study of the Hydraulic Characteristics of Stratified Energy Dissipators in In-Chamber Longitudinal Culvert Systems (Xin Ma, Yaan Hu, and Zhonghua Li)
- Corridor Scale Planning of Bunker Infrastructure for Zero-Emission Energy Sources in Inland Waterway Transport (Man Jiang, Fedor Baart, Klaas Visser, Robert Hekkenberg, and Mark Van Koningsveld)
- Design of Longitudinal Air Bubbler System Inside Ship Lock (Iqbal Singh Biln and Chandler Engel)
- Development of a Port Facility Diagnostic System that Utilizes Data Measured by Strong Motion Seismographs (Hiroaki Matsunaga, Junichi Kyouda, Sou Itakura, Tatsuru Yamamoto, Akito Sone, and Takashi Kadono)
- Development of a Verification Procedure of Partial Loading on Existing Solid Hydraulic Structures – Probabilistic Assessment for 3D Material Variations (Sophie Rüd, Hilmar Müller, Helmut Fleischer, and Christoph Stephan)
- Effect of River Regulation on Navigable Flow Conditions for River Bend (Honghao Fan, Jianjun Zhao, Jianguo Ye, Xianzhong Chen, Jintao Fang, Yu Wang, and Xingwei Zheng)
- Evolution of Undular Surges in a Navigation Channel (Feidong Zheng, Xueyi Li, Fan Zhang, and Ping Mu)
- Experimental Investigation of Hydrodynamics on Abrupt-Expansion Pipe Behind Control Valve of Hydro-Driven Shiplift (Jiao Wang and Yaan Hu)
- Experimental Study on the Relationship Between the Height of Submerged Dam at the Entrance of Pit-Type Pool and the Treatment Effect (Qiang Ying, Xinnong Zhang, Dongdong Jia, and Changying Chen)
- Grounding Risk Estimation in Inland Navigation with Monte Carlo Simulations and Squat Estimation (Juan Carlos Carmona, Raúl Atienza, Raúl Redondo, and José R. Iribarren)
- Handling Accidents and Calamities in Hydraulic Structures – Objectives of Pianc Working Group WG-241 (Ryszard A. Daniel, Timothy M. Paulus, Linda Petrick, and Yves Masson)
- Improvement Measures of Navigable Flow Conditions in the Baihutan Hydro-Junction in Changshanjiang River, China (Rongrong Wang, Aiping Sun, Shouyuan Zhang, Hongyu Cheng, and Gensheng Zhao)
- Innovative Mooring in Locks Using Shoretension: Density and Mooring Force Measurements in the North Lock Ijmuiden (Arne Van Der Hout, Allert Schotman, Thijs Hoff, Jan Wim Van Der Veen, and Arnout Quax)
- Innovative Salt-Freshwater Separation System at the Krammer Locks, The Netherlands. Hydraulic Modelling to Balance Functional Requirements (Tom O'Mahoney, Martin De Jonge, René Boeters, and Tjerk Vreeken)
- Live Digital Twin for Hydraulic Structures Fatigue Estimation (Cyril Condemine, Loic Grau, Yves Masson, and Sebastien Aubry)
- Mechanism and Variation Characteristics of Longitudinal Tilt of Ship Chamber of Hydro-Floating Ship Lift (HFSL) (Shu Xue, Yaan Hu, Zhonghua Li, and Ying Jin)

- Numerical Investigation of an Inland 64 TEU Container Vessel in Restricted Waters (Jinyu Kan, Lizheng Wang, Jialun Liu, Xuming Wang, and Bing Han)
- On the Numerical Modelling of Ship Forces During Lockage (Carsten Thorenz and Fabian Belzner)
- Optimizing Upstream Approach Wall to Navigation Lock in Narrow Rivers (Didier Bousmar, Catherine Swartenbroekx, Geoffrey Pierard, and Emmanuel Van Hees)
- Prototype Monitoring of Cavitation in Valve Culvert of Qianwei Shiplock (Xiujun Yan, Zhonghua Li, and Lin Chen)
- Propagation and Development of Nonlinear Long Waves in a Water Saving Basin (Xueyi Li, Feidong Zheng, Duoyin Wang, and Ming Chen)
- Reliability Based Rehabilitation of Existing Hydraulic Structures (Arslan Tahir and Claus Kunz)
- Research Developments in Hydrodynamics of Ships Entering and Leaving the Tank of a Ship Lift (Luzhidan Fu, Yaan Hu, and Zhonghua Li)
- Research on Influence from Ship Navigating in the Intermediate Channel Between Ship Lifts on Hydraulic Characteristics (Yingying Chen, Yaan Hu, and Zhonghua Li)
- Resistance of Plane Lock Gates Subjected to Ship Impact (Sara Echeverry Jaramillo, Marine Geers, Loïc Buldgen, Jean-Philippe Pecquet, and Philippe Rigo)
- Risk-Based Maintenance of Lock Gates Based on Multiple Critical Welded Joints (Thuong Van Dang and Philippe Rigo)
- Ship Impact for Suederelbe Bridge Crossing in Hamburg (Claus Kunz and Jan Schülke)
- Study on Design of Ship Lift Auxiliary Lock Water Filling/Emptying System and Operation Mode of Lock Gate (Xican Zhao, Chao Guo, Lei Wang, and Zhonghua Li)
- Study on the Operation Safety Evaluation System of Ship Lock Combined with Variation Coefficient Method and Matter-Element Extension Method (Junman Li, Yaan Hu, Xin Wang, Mingjun Diao, and Mingjun Diao)
- Study on the Mechanism of Water Loss and Capsizing of Multi - point Suspension Ship Lift (Lin Chen, Yaan Hu, Zhonghua Li, and Chao Guo)
- Study on the Unsteady Flow of the Approach Channel's Entrance 8Xiaodong Wang, Jinchao Xu, Long Zhu, Donghui Zhou, and Jun Zhao)
- The Approach of Lock Hydraulic System Selection Based on Multiple Factors (Zhonghua Li and Guoxiang Xuan)
- The Finite Element Analysis of Dislocated Lock Heads in Double-Lane Ship Lock (Zhiguo Niu and Yali Wang)
- The Type and Layout of the Lock Gate and the Scheduling for the Babao Lock on the Estuary with Strong Tidal Bore (Guoqiang Jin, Zhejiang Li, Yingbiao Shi, Jiming Zhai, and Runchen Ye)
- Transverse Mooring Forces Due to Asymmetrical Filling in a Lock with Longitudinal Culverts and Side Ports (C. Savary, B. Bertin, M. Lenaerts, I. El Ouamari, and D. Bousmar)
- Turbulent Flow Simulation of Bridge Piers and Navigation Safety of Ships in Curved River Sections with Variable Water Level (Zhirong Tan, Gang Xing, Xing Gao, and Xin Cui)

Smart Shipping

- A Study on Key Technologies for the Joint Scheduling and Control of Multi-level and Multi-line Ship Lock Groups (Wu Ning, Hantao Ye, Ning Lin, and Zhenyu Mo)
- A New Era for River Information Services -WG I25- (Piet Creemers)

- A Web-Based Regional Economic Simulation Tool for U.S. Army Corps of Engineers' Civil Works Programs (Wen-Huei Chang, Dena Abou-El-Seoud, and Kevin Knight)
- Application and Prospect of Spatial Information Technology in Inland Waterway Resources Census (Pengpeng Jia, Zhefei Jin, Honglin Feng, Qiong Yang, and Wenwu Yang)
- AIRIS-PS Project in the Port of Seville and in the Guadalquivir Waterway. Results of the Project Completed (Rodrigo García, Angel Pulido, Isabel Navarro, Xavier Pascual, Cas Willems, and Alicia Yanes)
- Aids to Navigation Improvement to Optimize Ship Navigation (Raúl Redondo, Raúl Atienza, Lourdes Pecharroman, and Leandro Pires)
- Container Barge Design to Optimize Hinterland Transport in Europe (Bianca Borca, Lisa-Maria Putz, and Bernhard Bieringer)
- CEERIS (Central and Eastern European Reporting Information System) – SMART Electronic Reporting Platform for IWT (Katrin Steindl-Haselbauer, Mario Kaufmann, and Thomas Zwicklhuber)
- Development of S-401, Status of the New Standard for IECDIS (Gert Morlion)
- Exploration of Digitalization System and Technical Solutions for Inland Waterway (Jun Huang, Haiyuan Yao, and Zhengyong Chen)
- EURIS (European River Information Services System) – The Central European RIS Platform (Thomas Zwicklhuber and Mario Kaufmann)
- Flow Analysis for Navigation Safety by Using Iric Model Nays2DH (M. A. C. Niroshinie, Nobuyuki Ono, Yasuyuki Shimizu, and Kazuya Egami)
- Marine Electrification is the Future: A Tugboat Case Study (Mark Hayton)
- Review of the Key Technology Research on Intelligent Locks (Maoming Xiang, Yaan Hu, and Xiaodong Wang)
- River Shoreline Project Management Based on BIM Technology: A Case Study of the Environmental Improvement Project of the Green Water Wetland in the Nanjing Reach of the Yangtze River (Tianzeng Huang, Haifeng Xu, Yanbo Wang, Huai Chen, Lei Zhang, and Hongxia Fan)
- River Project, An Innovative Way to Reduce Pollution on Riverboats (Abdel Aitouche, Raouf Mobasheri, Xiang Li, Jun Peng, Chris Barnett, Uwe Bernheiden, Peter Dooley, Klaus Bieker, Ahmed El Hajjaji, and Robin Pote)
- Status of Research and Application Cases in Intelligent Shipping (Jiayi Xu, Zixiang Li, Haifei Sha, and Shiqiang Wu)
- Study on Advanced Water Level Simulation Method for Inland Waterway Transport Based on the Extended Manning Formula (Junwei Zhou, Dianguang Ma, Yu Duan, and Chao Ji)
- Study on the Economic Speed of the Grand Canal in North Jiangsu (W. Xie, S. D. Xu, N. N. Zhang, X. Yue, J. Liu, and S. H. Lu)
- Smart Shipping on Inland Waterways (Ann-Sofie Pauwelyn and Sim Turf)
- SciPPPer: Automatic Lock-Passage for Inland Vessels – Practical Results Focusing on Control Performance (Alexander Lutz and Axel Lachmeyer)
- Ship Maneuvering Using a Ship Simulator in Search and Rescue Operation (Milan Kresojevic and Vesna Ristic Vakanjac)
- The Fairway to Corridor Management (Jan Gilissen)

River System Management

- Adaptive Regulation of Cascade Reservoirs System Under Non-stationary Runoff (Yu Zhang, Xiaodong Wang, Zhixiang Min, Shiqiang Wu, Xiufeng Wu, Jiangyu Dai, Fangfang Wang, and Ang Gao)
- Advances in Ecological and Environmental Effects of Mountain River Sediment (Longhu Yuan, Yongjun Lu, Jing Liu, Huaixiang Liu, Yan Lu, and Xiongdong Zhou)
- Analysis of Erosion and Deposition Characteristics in Hukou-Jiangyin Reach of the Lower Yangtze River After the Operation of the Three Gorges Project (Shuang Cao, Long Cheng, Nairu Wang, Qiang Li, and Hongyu Luo)
- Analysis of River Stability in the Middle Reaches of Huaihe River Based on Non-equilibrium Thermodynamicsins (Yu Duan and Guobin Xu)
- Application of Environmentally Active Concrete (EAC) for River Structure (Naozumi Yoshizuka, Tomihiro Iiboshi, Hirokazu Nishimura, and Daisuke Kawashima)
- An Integrated Approach to Define Estuarine System Resilience, Applied to the Upper Sea Scheldt, Flanders, Belgium (R. Adams, G. van Holland, J. Vansteenkiste, M. van Rompaey, M. de Beukelaer-Dossche, and S. Bosmans)
- Best Practice Approach for Layouting Technical-Biological Bank Protections for Inland Waterways - PIANC WG 128 (Söhngen Benhard, Dianguang Ma, and Other Members of PIANC INCOM WG 128)
- Changes of Channel Conditions of Zhangjiazhou Waterway for the 2020 Hydrological Year and Maintenance Countermeasures (Hui Xu, Qianqian Shang, and Xiangjun Xu)
- Do the Short-Term Water Diversion from Yangtze River Increase Phosphorus Bioavailability in the Water-Receiving Area? (Fuwei Tian, Jiangyu Dai, Jiayi Xu, Xiufeng Wu, Shiqiang Wu, Yu Zhang, Fangfang Wang, and Ang Gao)
- Ecological Evaluation of Waterways Based on Modified Neural Networks (Teng Wu, Jie Qin, and Runzhuo Guo)
- Environmental Impact Assessment of Watershed Plan Under the "Three Lines and One List" Environmental Governance (Runhe Cheng and Jinxiang Cheng)
- Knowledge About Sediment Transport Obtained Through Multiple Operations at Ports in Japan (Tomohiko Kachi, Minoru Itui, Tatsunori Naruke, and Yukihiko Sugiura)
- Monitoring the Variation of Drought-Flood Abrupt Alternation and Its Response to Atmospheric Circulation at Multi-time Scales (Wuzhi Shi, Ke Zhang, Yuebo Xie, Lijun Chao, Tolossa Lemma Tola, and Xianwu Xue)
- Morphological Evolution and Driving Factors of Tidal Flats in the Yangtze Estuary (China) During 1998–2019 (Haifeng Cheng, Pei Xin, Jie Liu, Fengfeng Gu, Qi Shen, and Lu Han
- Multi-purpose Management of the Walloon Waterways, from Local to Global Control of the Structures (Nathan Bertouille, Gouverneur Ludovic, Franken Tim, Dierickx Philippe, Savary Céline, and Meert Pieter)
- Numerical Simulation of the Composite Bank Stability Process of the Songhua River (Jun Yang, Dongdong Jia, Lei Wu, Youzhi Hao, and Zhuoying Cang)
- Research on Water Scour Conditions of Wanjiazhai Reservoir, China (Kunhui Hong, Shouyuan Zhang, Wei Zhang, and Teng Wu)
- Research Progress on Fish Barrier Measures (Kaixiao Chen, Xiuyun Guo, Xiaogang Wang, Yun Li, and Long Zhu)
- River Regime Evolution of the South Channel in the Changjiang River Estuary, China, During Past 50 Years (Huiming Huang, Xiantao Huang, Yuliang Zhu, and Siqi Li)

- Study on Wind Waves Similarity and Wind Waves Spectrum Characteristics in Limited Waters (Ang Gao, Xiufeng Wu, Shiqiang Wu, Hongpeng Li, Jiangyu Dai, and Fangfang Wang)
- Shoreline Carrying Capacity Assessment Based on Satellite Remote Sensing Image: A Case Study of the Nanjing Reach of the Yangtze River (Huai Chen, Shan Wang, Suning Huang, Lei Zhang, Nairu Wang, and Lijun Zhu)
- Simulation and Hazard Map of Flooding Caused by the Break of a Concrete Gravitational Dam (Qing Leng, Ming Zhang, Gensheng Zhao, Senhao Mao, and Ang Jiang)
- Study on Air Bubble Plume in Open Channel with CFD-PBM Coupling Model (Jinchao Xu, Xiaodong Wang, Long Zhu, Donghui Zhou, and Jun Zhao)
- Study on Planning and Design of Ecological Pastoral Cultural Landscape Belt of Luliang River System in Yunnan Province, China (Hongzhuang Xu, Dean Wu, Shaofu Tang, Yuhong Huang, and Weiyi Qu)
- Study on the Design of Ecological Green Corridor Project for Comprehensive River Treatment in Luliang County, Yunnan Province (Shaolin Yi, Shaogan Sun, Guofang Huang, Dean Wu, and Weiyi Qu)
- Study on the Technical and Policy Pathway for Low-Carbon Development of the Water Transportation in Sichuan Province (Yonglin Zhang, Chaohui Zheng, Yue Li, Liguo Zhang, Jinxiang Cheng, and Mingjun Li)
- Sedimentary Process in Navigation Channel in an Estuarine Port, - A Case Study from the Port of Niigata, Japan (Yasuyuki Nakagawa, Taichi Kosako, Hiroyuki Hayashi, and Tomohiro Watanabe)

Logistics

- Analysis of Knowledge Transfer of Inland Waterway Transport on the Danube Towards a Positive Attitude (Denise Beil and Lisa-Maria Putz-Egger)
- A Roadmap Towards Eliminating Greenhouse Gas Emissions and Air Pollutants of the Inland Navigation Sector by 2050 – How to Address the Related Economic, Financial, Technical and Regulatory Obstacles? (Raphael Wisselmann, Laure Roux, and Benjamin Boyer)
- Calculating Emissions Along Multimodal Transport Chains - Standards, Difficulties and Problems (Laura Hörandner, Lisa-Maria Putz Egger, and Denise Beil)
- Construction of Container Terminal in the Yangon River (Hiroki Kohno, Masayuki Takahashi, Daisuke Niina, and Satoshi Tokiwa)
- Data sharing in Inland Navigation (Jef Bauwens)
- Examining the Logistics Performance of a Decentralized Waterborne Container Transportation Service in the West German Canal Network with the Help of Discrete-Event Simulation (Cyril Alias, Jonas Zum Felde, and Sven Severin)
- Free Zones as Booster of Growth of Ports (Rodrigo Nicolás Benítez Leto and Savarese Ariel Jose)
- Grain Flow Through the Northern Arch of Brazil (Ana Paula Harumi Higa, José Gonçalves Moreira Neto, Rodrigo Guimarães Trajano, and Herbert Koehne De Castro)
- Handling of Inland Vessels in Seaports – Necessary Actions and Additional Options to Support Container Transport on Inland Waterways (Laure Roux, Iven Krämer, and Rob Konings)
- Regulation for the Decarbonisation of IWT in Europe (Gernot Pauli and Benjamin Boyer)
- Strategies for High Quality Development of Smart Inland Shipping in Zhejiang Province Based on “Four - Port Linkage” (Jianan Zhou, Wanfeng Liu, and Jianwei Wu)
- The Linear Regression Model for Estimate the Price in Crossing Transport Services: Methodology and Application (Isaac Monteiro do Nascimento and Eduardo Pessoa de Queiroz)

●A Study on the Han-Hai Fleet Slot Mutual Chartering Model of Han-Shen Line Based on Linear Alliance (Yi Zhang, Cheng Peng, Yike Li, Jinling Li, and Jinshan Dai

Special Session

●Analysis of Water Level Fluctuations in Bifurcating Approach Channels Under the Flow Regulation of Reservoirs (Zhiyong Wan, Yun Li, Jianfeng An, Xiaogang Wang, and Xiujun Yan)

●Analysis on the Characteristics of Channel Scour and Deposition in the Nanjing Reach of the Yangtze River After Impoundment of the Three Gorges Reservoir (Nairu Wang, Suning Huang, Shuang Cao, Hongyu Zhang, and Taotao Zhang)

●Experimental Study on Navigation Flow Condition of Downstream Approach Channel of Navigation Facilities of Baise Water Conservancy Project (Kaiwen Yu, Changhai Han, Kang Han, Jianjun Zhao, and Zhiguang Yu)

●Flow and Sedimentation Characteristics of Tidal Waterways – with the Kouanzhi Waterway in the Lower Yangtze River as an Example (Jie Qin, Ye Jing, Xueting Lei, Teng Wu, and Elikplim Agbemafle)

●Hydraulic Research on Filling and Emptying System of Water-Saving Ship Lock for Navigation-Power Junction in Mountainous River (Benqin Liu, Jin Yang, Yue Huang, and Lei Wang)

●Impact of Three Gorges Project (TGP) on Riverbed Revolution and Navigation Conditions in the Taipingkou Waterway (Qilin Yang, Qianqian Shang, Hui Xu, and Min Xu)

●On Characterizing Flow Resistance in a Tidal Reach (Ye Jing, Xueting Lei, Jie Qin, Teng Wu, and Elikplim Agbemafle)

●Research on the Non-constant Navigable Water Flow Conditions of the River Channel Downstream of the Navigable Facilities of Baise Water Control Project (Mingfang Guan, Ming Zhang, Changhai Han, Leng Qing, and Yu Hang)

●Spatiotemporal Evolution Characteristics and Influencing Factors of Incoming Water and Sediment in Three Gorges Reservoir (Peng Chen, Jinyou Lu, Zhongwu Jin, Yinjun Zhou, Rouxin Tang, Zhaoxi Liu, and Qiuba Han)

●Study on Classification Arrangement and Hydraulic Characteristics of Water-Saving Ship Lock Under Ultra-high Head (Long Zhu, Xiaodong Wang, Yue Huang, Benqin Liu, and Zhonghua Li)

●Technical Status Evaluation of River Training Works Based on the Improved DS Evidence Theory (Zhonglian Jiang, Xiao Chu, Zhen Yu, Jianqun Guo, and Xiumin Chu)

●The Review and Prospect of the Development of Guangdong-Hong Kong-Macao Greater Bay Area Port Cluster and Its River-Sea Intermodal Transport System (Wentao Ding, Zhengyong Chen, Rui Wang, Tianhan Xue, and Haiyuan Yao)

●Three-Dimensional Hydrodynamic Analysis and Early Warning of X-Collapse in the Lower Reaches of the Yangtze River Based on Experimental Study on Generalized Model (Menghao Jia, Fanyi Zhang, Xinyi Lyu, Yuncheng Wen, and Hua Xu)