Technical Papers

Modeling Shoreline Changes in Northwest Portugal Using a Process-Based Numerical Model: COAST2D

Fernando Álvarez, Shunqi Pan, Carlos Coelho and Paulo Baptista

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Numerical and Centrifuge Modeling of Gravity Wharf Structures Subjected to Seismic Loading

Gopal S. P. Madabhushi, Jad I. Boksmati and Samy G. Torres

Tsunami-Like Wave-Induced Lateral and Uplift Pressures and Forces on an Elevated Coastal Structure

Mohammad S. Alam, Andrew O. Winter, Glen Galant, Krishnendu Shekhar, Andre R. Barbosa, Michael R. Motley, Marc O. Eberhard, Daniel T. Cox, Pedro Arduino and Pedro Lomonaco

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Revisiting Longshore Sediment Transport Formulas

Saeed Shaeri, Amir Etemad-Shahidi and Rodger Tomlinson

Fluxes of Sediment Beneath Floating Silt Screens due to Density Gradients and Screen Motion

Fynn Aschmoneit, Jacob Hjelmager Jensen, Sina Saremi and Claus Hélix-Nielsen

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Stability of Composite Breakwaters under Tsunami Attack

Zhonghou Xu, Bruce W. Melville, Liam Wotherspoon and N. A. K. Nandasena

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Design of Detached Emerged and Submerged Breakwaters for Coastal Protection: Development and Application of an Advanced Numerical Model

Alexandros-Charalampos Tsiaras, Theofanis Karambas and D. Koutsouvela

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Theoretical Analysis of an Asymmetric Offshore-Stationary Oscillating Water Column Device with Bottom Plate

Zhengzhi Deng, Zeting Ou, Xiang Ren, Dahai Zhang and Yulin Si

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Wave Runup Loading Behind a Semipermeable Obstacle

Mayilvahanan Alagan Chella, Andrew B. Kennedy and Joannes J. Westerink

Artificial Neural Network Prediction of Overtopping Rate for Impermeable Vertical Seawalls on Coral Reefs

Ye Liu, Shaowu Li, Xin Zhao, Chuanyue Hu, Zhufeng Fan and Songgui Chen

Overland Wave Propagation and Load Distribution among Arrays of Elevated Beachfront Structures

Erdinc Sogut, Deniz Velioglu Sogut and Ali Farhadzadeh

Multiple Approaches to Numerical Modeling of Container Ship Squat in Confined Water

Zhen Kok, Jonathan Duffy, Shuhong Chai and Yuting Jin

Waves in Collections of Circular Shoals and Bathymetric Depressions

David R. Steward

Considering Future Sea Level Change in Maritime Infrastructure Design: A Survey of US Engineers

Benjamin Sweeney and Austin Becker

Field Measurements in the Kiel Canal, Germany: Ship Waves, Drawdown, and Sediment Transport

Marius Ulm, Sebastian Niehüser, Bernhard Kondziella, Arne Arns, Jürgen Jensen and Klemens Uliczka

Tsunami-Like Wave Forces on an Elevated Coastal Structure: Effects of Flow Shielding and Channeling

Andrew O. Winter, Mohammad S. Alam, Krishnendu Shekhar, Michael R. Motley, Marc O. Eberhard, Andre R. Barbosa, Pedro Lomonaco, Pedro Arduino and Daniel T. Cox

Case Studies

Spatiotemporal Investigation of Event-Driven Sedimentation in a Tidally Influenced Shipyard by Air and Waterborne Observations

Oliver Lojek, Jan Tiede, Jan Visscher, Remo Cossu and Torsten Schlurmann

Technical Notes

Experimental Investigation of Effects of Unsteady Flow on Bed-Load Transport Process

Y. Xiao, J. Hu and F. S. Yang

Discussions and Closures

Discussion of “Estimation of Clear-Water Local Scour at Pile Groups Using Genetic Expression Programming and Multivariate Adaptive Regression Splines” by S. M. Bateni, H. R. Vosoughifar, B. Truce, and D. S. Jeng

Danial Amini Baghbadorani, Aliasghar Beheshti and Behzad Ataie-Ashtiani