

Publications

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01 Paper

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The papers are categorised by areas, Soil Reinforced Structure **A**, Concrete Faced-Rockfill Dam **B**, Reliability **C**, OtherFloods **D**, Cross Shore **E**, Longshore **F**, Flood Risk **G**; Biological **H**; Extreme **I**; Technical Report **R**, and Presentations **PPT**.

P---Proceedings; **J**---Journal; **ENG**---in English; **CHN**---in Chinese.


[01Z Book](#) / [01Y Book chapter](#) / [01I Extreme and Uncertainty](#) / [01H Mechanical behaviour of biological burrowing](#) / [01G Flood Risk under extreme sea state](#) / [01F LongShore](#) / [01E CrossShore](#) / [01D OthersRelatedwithFlood](#) / [01C Realibility](#) / [01B Concrete Faced Rockfill Dams](#) / [01A Soil Reinforced Structure](#)


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01Z Book


Xing Zheng Wu. *Deterministic and stochastic models in civil engineering: from projection to ensemble description*. 2013. **ENG**.

01Y Book chapter


[G-1-**ENG**-C-6] Hall J, Dawson R., **Wu X.Z.** 2015. Chapter 9: [Analysing flood and erosion risks and coastal management strategies on the Norfolk coast](#). In [Broad Scale Coastal Simulation](#). Advances in Global Change Research. Vol. 49. pp 233-254. 

[G-1-**ENG**-C-5] **Wu X.Z.**, Hall J, Liang Q, Dawson R. 2015. Chapter 8: [Broad Scale Coastal Inundation Modelling](#). In [Broad Scale Coastal Simulation](#). [Advances in Global Change Research](#). Vol. 49. pp 213-232. 

01I Extreme and Uncertainty

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[I-3-**ENG**-J-8] **Wu X.Z.** 2015. [Development of fragility functions for slope instability analysis](#). Landslides. 12(1):165-175. Technical note. [SCIE:2.81]

[I-3-**ENG**-J-7] **Wu X.Z.** 2015. [Geometric reliability analysis applied to wave overtopping of sea defences](#). Ocean Engineering. 109, 287-297. [SCI:1.33] 

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01H Mechanical behaviour of biological burrowing

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01G Flood Risk under extreme sea state

[G-2-**ENG**-J-4] **Wu X.Z.** 2016. [Probabilistic solution of floodplain inundation equation](#). Stochastic Environmental Research and Risk Assessment. 30(1):47-58. [SCI:2.67] 

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pdf-A, pdf-B)

[G-1-**ENG**-J-2] *A multivariate interpolation approach applied to coastal inundation assessment*. Journal of Flood Risk Management. 2011. (Drafted, pdf)

[G-1-**ENG**-P-1] **Wu X.Z.**, Jim Hall , Liang Qiuhua. *Coastal Flood Inundation Modelling with a 2-D Shallow Water Equation Solver*. Proceedings of the Twentieth (2010) International Offshore and Polar Engineering Conference. Beijing. p871-875. [[pdf](#)]

01F LongShore

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01E CrossShore

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[D-4-**CHN**-J-05] Wang YY, **Wu XZ**. Comparative study on flood risk analysis in the Netherlands and China. *Journal of natural disasters*. 2005, 14(4):19-24. [\[pdf\]](#)


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02 Technical report

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03 Presentation

[PPT-11-**ENG**-11] In Newcastle UK: Tyndall . Modelling a joint extreme of shoreline evolution to enhance long-term regional coastal flood risk assessment. May. 2011. [[pdf](#)]

[PPT-11-**ENG**-09] In Norwich Workshop UK: Tyndall . Erosion and flood risk. Oct. 2009. [[pdf](#)]

[PPT-10-**ENG**-08] In Dundee UK: Experiment and numerical investigation of root penetrating process. Scottish universities geotechnical network-----SUGN Research Day / University of Dundee. SCRI . 2009. [[pdf](#)]

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[PPT-8-**ENG**-07] In Venice Italy: 32nd Congress of IAHR. *A stochastic differential equation model for the shoreline evolution*. 2007. [[pdf](#)]

[PPT-7-**ENG**-06] In Napier UK: SCOTTISH UNIVERSITIES GEOTECHNICAL NETWORK-----SUGN Research Day / University of Napier. *A Process-Based Numerical Model to Predict Coastal Cliff-Beach Erosion due to Wave Actions*, 2006. [[pdf](#)]

[PPT-6-**ENG**-05] In Dundee UK: University of Dundee GEOTECHNICAL Seminar. Probabilistic optimization design for Inclined Facing Embankment. 2005. [[pdf](#)]

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04 Dissertation

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3. **Wu, X. Z.** 1994, " Separating Design of Ming-lai Highway in a Mountainous Area," Thesis, Shandong University (formerly Shandong University of Technology), Jinan, June. (Best Thesis Award)

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05 Technical reviewer for journals on publons

Computational Geosciences

Stochastic Environmental Research and Risk Assessment

International Journal of Offshore and Polar Engineering

Journal of Engineering and Technology Research

Georisk: Assessment and Management of Risk for Engineered Systems and Geohazards

Journal of Hydroinformatics

Journal of Hydraulic Engineering in Chinese / Shuili Xuebao

China Flood & Drought Management / Zhongguo Fangxun Kanghan