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Porous Media Flow, Fluid Mechanics, Waves In Fluid

(A) Published or Accepted Journal Papers

1.Chang, K.H., Lin, M.Y. and Huang, L. H., 2015, Modified Lagrangian Vortex Method with Improved Boundary Conditions for Water Waves past a Thin Bottom-standing Barrier, International Journal for Numerical Methods in Fluids, 77, 183-205. (SCI, EI) [NSC100-2221-E002-019, and NSC100-2811-E002-047]

2.Chang, Yun, Huang, L.H. and Yang, F.P.Y., 2015, Two-dimensional lift-up problem for a rigid porous bed, Physics of Fluids, 27, 05301-1 – 05301-13. (SCI, EI) [NSC 100-2625-M-002-015-MY3]

3. Chuang, S.H., Yueh, C.Y. and Huang, L.H., 2015, Dual boundary element model coupled with the dual reciprocity method to determine wave scattering by a concentric cylindrical system mounted on a conical shoal, Engineering Analysis with Boundary Elements (56), 30-38. (SCI, EI) [NSC100-2625-M002-015-MY3]

4. Chang, H.Y., Huang, L.H., Lin, M.Y. and Chng, K. H., 2017, Application of a pre-coated permeable layer to a pipeline partially buried in a porous seabed, Journal of Engineering Mechanics @ ASCE, ISSN 0733-9399,(SCI, EI)　[NSC103-2221-E002-224]

5. Huang, Chwang-Wei, Yang, Fan-Po-Yuan, Huang, Liang-Hsiung, Chou, Jyh-Fang, Lien, Ho-Chen, and Chang, Cheng-Wei, 2018, Optimal design of interception for flood control: An integrated simulation approach, Journal of Hydro-environmental Research, 19, 103-116. (SCI)

6. Yang, Fang-Po-Yuan, Huang, Liang-Hsiung, Chang, Cheng-Wei and Lin, Meng-Yu, 2018, Estimation of the specified time scale for mass transport in a tidal estuary, Journal of the Chinese Institute of Civil and Hydraulic Engineering, Vol. 30, No.1, pp. 1-9. (EI) [NSC97-2221-E002-248-MY2] [NSC98 - 2625 - M002 - 004]

7. Chen, Hsiao-Ching, Huang, Liang-Hsiung, Chang, Cheng-Wei and Yang, Fang-Po-Yuan, 2019, The study on design and improvement of the dividing wall for a merged flow of two open channels, Journal of the Chinese Institute of Civil and Hydraulic Engineering, Vol. 31, No.1,

pp. 71-78. DOI:10.6652/JoCICHE.201903_31(1).0006. (EI) (in Chinese)

(B) Published or Accepted Conference Papers

1. Wang, Y.H., Jan, J.F., Chang, C.W., Huang, L.H. and Young, C.C., 2015, A mountainous groundwater flow model, Proceedings of the 5th International Conference on Engineering and Applied Science, Sapporo, Japan, July 20 – 22.
2. Hsiao, Fu-Cheng and Huang, L.H., 2016, Analytical method of linear viscous water wave applied to flap type wave-maker, Proceedings of the 38th Ocean Engineering Conference in Taiwan, ROC, Taipei, Taiwan, Dec. 8-9 (in Chinese).
3. Lin, Y.H. and Huang, L.H., 2018, Exploring the adhesive approximate solution of lift-up problem with a rigid impermeable bed, proceedings of the 13th International Conference on Hydrodynamics, Incheon, Korea, Sep. 2 – 6.
4. Hsiao, F.C., Huang, L.H. and Lin, M.Y., 2018, Analytical method for linear viscous water wave applicable to a flat-type wave maker, proceedings of the 13th International Conference on Hydrodynamics, Incheon, Korea, Sep. 2 – 6.
5. Lin, Yi-Ru, Huang, L.H. and Lin, M.Y., 2019, Analytical study on linear water waves with a submerged flat plate, Proceedings of the 41th Ocean Engineering Conference in Taiwan, ROC, Tainan, Taiwan, November 21-22 (in Chinese).

(D) Reports

1. Huang, L.H. and Lin, M.Y., 2015, The study of a remedy for piping of underwater pipelines, Report of Ministry of Science and Technology, MOST103-2221-E-002-224 (in Chinese).
2. Lin, C.P., Huang, L.H. and Hsieh, D.Y., 2015, The implementation of observation and measurement system of sediment transport and the related applications in Nan-Hua Reservoir (2/2), Report of Taiwan Water Corporation (in Chinese).
3. Huang, L.H., 2016, The optimized arrangement of a remedy for piping of a underwater pipeline, Report of Ministry of Science and Technology, MOST104-2221-E002-144 (in Chinese).
4. Tsai, Tung-Lin, Huang, L.H. and Wu, Shiang-Jen, 2016, The construction and application of the numerical model of land subsidence due to loading or groundwater pumping, Report of Water Resource Bureau, Ministry of Economic Affairs MOEWRA1050211 (in Chinese).
5. Huang, L.H., 2017, The study of saltwater intrusion of groundwater(1), Report of Ministry of Science and Technology, MOST105-2221-E002-086 (in Chinese).

6. Huang, L.H., 2018, The study of saltwater intrusion of groundwater(2), Report of Ministry of Science and Technology, MOST106-2221-E002-103 (in Chinese).
7. Huang, L.H., Yu, W.S., Huang, C.W. and Hwang, G.W., 2019, The simulation of urban flooding under extreme climate condition, Report of Sewage System Office Construction and Planning Agency Ministry of Interior, 105-201R-0101-0000-0060 (in Chinese).

(E) Supervised PhD Theses

1 Chang, Cheng-Wei (張正緯), 2018, The study of seawater intrusion of groundwater, PhD thesis, Department of Civil Engineering, National Taiwan University (in Chinese).

2. Fang-Po-Yuan Yang (楊方泊源), 2018, The study on the method of optimal operation of self-purification for a tidal river in dry seasons, PhD thesis, Department of Civil Engineering, National Taiwan University (in Chinese).

(F) Supervised MS Theses

1.Koh, Yen-Hui (高延輝), 2015, Development of BEEMD based smoothing algorithm for topography and a 2D cell based flood inundation model, Department of Civil Engineering, National Taiwan University.

2.Lai, Bo-Yuan (賴柏元), 2015, The optimized arrangement of prevention for piping of underwater pipelines, Department of Civil Engineering, National Taiwan University (in Chinese).

3.Hsiao, Fu-Cheng(蕭輔誠), 2016, Analytical method of linear viscous water wave applied to flap type wave-maker, Department of Civil Engineering, National Taiwan University (in Chinese).

4.Wei, I-Fan（衛亦凡), 2016, Groundwater floe analysis and computation for zones of large hydrodynamic conductivity difference, Department of Civil Engineering, National Taiwan University (in Chinese).

5.Lin, Yi-Ru (林怡汝), 2017, Analytical study on linear water waves with a submerged flat plate, Department of Civil Engineering, National Taiwan University (in Chinese).

6.Yu, Wei-Chieh (余偉傑), 2017, Analytical studies of some high Reynolds number flows in hydraulic engineering, Department of Civil Engineering, National Taiwan University (in Chinese).

7.Hsieh, Chuan-Yao (謝全曜), 2018, A study on Manning's n in wetlands, Department of Civil Engineering, National Taiwan University (in Chinese).

8.Weng, I-Tang (翁翊棠), 2019, Conceptual solutions of highway curve design and land subsidence due to groundwater over pumping, Department of Civil Engineering, National Taiwan University (in Chinese).

(G) Patent

1. Huang, L.H., Lin, M.Y., Chang, Hsin-Yu and Lai, Bo-Yuan, 2016, Simulation method of piping prevention.