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Debris Flow, Environmental Fluid Mechanics, Wave Dynamics

期刊論文((Journal Paper)

1. C.W. Shen, S.-H. Liu, Y.-C. Chen, K.-F. Liu (2017) Budget of landslide-induced sediment for the watersheds in Taiwan—a case study in pre-and post-typhoon morakot periods **Journal of Taiwan Agricultural Engineering** 62(3):23-42
2. 魏士超、劉格非、黃亦敏、方耀民、尹孝元、黃效禹、林建良 (2018), 「愛玉子溪土石流之地動訊號特性與警戒方法之探討」, **中華水土保持學報**, 49(2), 77-88。
3. Wei, S.-C., Li, H.-C., Shih, H.-J., and Liu, K.-F. (2018) Potential Impact of Climate Change and Extreme Events on Slope Land Hazard – A Case Study of Xindian Watershed, **Nat. Hazards Earth Syst. Sci.**, <https://doi.org/10.5194/nhess-2017-262>, (SCI, IF=2.51)
4. Hsu, Y.-C., Liu, K.-F., Shu, H.-M. (2019): Combining TRIGRS and DEBRIS-2D Models for A Debris Flow Simulation from Rainfall Infiltration Induced Shallow Landslides: A Case Validation of Daniao Tribe, **Water** doi:10.3390/w11050890 (SCI, IF=2.56, ci=78)
5. Shih-Chao Wei, Ko-Fei Liu (2019, Dec). Automatic debris flow detection using geophones. **Landslides** DOI 10.1007/s10346-019-01258-9..(SCI, IF=3.81, ci=11)
6. Liu K.F., Jhou J.M., Wei S.C. and Chien C.H. (2019, Jun). Tipping Bucket Rain Gauge Performance Analysis under Heavy Rain fall. **Advancements in Civil Engineering & Technology** DOI 10.31031/ACET.2019.03.000564. (SCI, IF=1.14, ci=3)
7. Chae B.G., K.-F. Liu, Y.-H. Wu, J.h. Choi, and H.-J. Park (2020) Simulation of Debris-Flow Runout Near a Construction Site in Korea, **Appl. Sci.** 10, 6079; doi:10.3390/app10176079 (SCI, IF=1.23)

研討會論文(Conference Papers) (2017-2021)

1. Liu, K.F. Li, H.C. 2017, **Social vulnerability index for natural disaster with case study for debris flows, Taiwan” The International Conference on Human Society and Culture (HSC2016), 8/19–21, Shenzhen, China (KeyNote)**
2. Liu, K. F., and S. C. Wei. 2017. A Complete Watershed Monitoring System in Shenmu Village, Taiwan. The 11th Asian Regional Conference of IAEG, Nov. 28-30, 2017, Kathmandu, Nepal.
3. Wei, S. C., K. F. Liu, Y. M. Huang, and Y. M. Fang. 2017. Characteristics of Ground Vibration Signal Produced by Debris Flows at Ai-Yu-Zi Creek, Taiwan. The 11th Asian Regional Conference of IAEG, Nov. 28-30, 2017, Kathmandu, Nepal.
4. Wei S.C.*, Liu K.F., Yin H.Y., Lin C.L. (2018) Detecting Debris Flow Using Ground Vibration Signal. The 16th International Symposium on Geo-disaster Reduction, Aug. 27-31, 2018, Strasbourg, France.

5. Wei S.C.*, Liou J.W., Liu K.F. (2018) Grain-size Distributions Based on Automatic Image Processing. The 16th International Symposium on Geo-disaster Reduction, Aug. 27-31, 2018, Strasbourg, France.
6. Li P.C., Wei S.C.*, Liu K.F. (2018) Rheological Parameters Calibration for Unsteady Mud Flows in Concentric Cylinder Viscometer. The 16th International Symposium on Geo-disaster Reduction, Aug. 27-31, 2018, Strasbourg, France.
7. Liu K.F., Wei S.C., Yin H.Y., Lin C.L. (2018) Debris flow detection with geophones and video camera. 5th International Debris Flow Workshop & Symposium on Silk Roads Disaster Mitigation, Nov. 5-6, 2018 Beijing, China. **(Keynote)**
8. Wei S.C.*, Li P.C., Liu K.F. (2018) Transient Behavior of Bingham Fluid in Concentric Cylinder Viscometer. 5th International Debris Flow Workshop & Symposium on Silk Roads Disaster Mitigation, Nov. 5-6, 2018 Beijing, China. (Young Oral-report Award)
9. Liu K.F., Jhou J.M., Wei S.C.*, Chien C.H. (2019) Tipping Bucket Rain Gauge Performance Analysis under Heavy Rainfall. 7th International Conference on Debris-Flow Hazards Mitigation, (EI)
10. Yu Charn - Hsu, Ko Fei Liu, Hung Ming Shu (2019,). Debris flow assessment from rainfall infiltration induced landslide. 7th International Conference on Debris Flow Hazards Mitigation , Colorado - School of Mine, Colorado, USA. (EI). °
11. 劉格非, 2019 “流域土砂運移監測”。災害感知新技術國際學術研討會，北京。
12. Liu, K.F. (2019). Risk Assessment and Mitigation Strategy of Large Scale Potential Landslide. Nature Based Landslide Risk Management Training May 30-31, 2019, Hotel Taj Samudra, Colombo - Sri Lanka by WORLD BANK **(KEYNOTE)**
13. Liu, K.F. and S.H. Wei (2021) Debris Flow Detection Using a Video Camera , World landslide forum , Tokyo

專書專章 (2016-2020)

1. Abolmasov B., Fathani, T. F., Liu, K. F. and Sassa K., 2017 “Progress of the World Report on Landslides” in Advancing Culture of Living with Landslides , pp.219-226. DOI: 10.1201/b21520-73
2. Wu, Y.-H., Liu, K.F., Chen, Y.C., Chiu, Y.J., & Shih, S.S. (2018). TXT-tool 3.886-1.2: Simulation of mass movement in a large-scale watershed. In (Sassa K. eds.) Landslide Dynamics: ISDR-ICL Landslide Interactive Teaching Tools, 2, 251-262.
3. Liu, K.F., & Wu, Y.-H. (2018). TXT-tool 3.886-1.1: Debris-2D Tutorial. In (Sassa K. eds.) Landslide Dynamics: ISDR-ICL Landslide Teaching Tools, 2, 181-189.
4. Liu K.F.*, Kuo T.I., Wei S.C.(2020) Debris flow detection using a video camera. In (Sassa K. et al. ed) Understanding and Reducing Landslide Disaster Risk, 2, 305-413
5. Liu · K.F. · L.T. Kuo and S.H. Wei (2021) Debris Flow Detection Using a Video Camera · Understanding and Reducing Landslide Disaster Risk pp 141-147