
BIBLIOGRAPHY

- Ali, M., Khan, S., Aslam, I., & Khan, Z. (2011). Simulation of the Impacts of Land-Use Change on Surface Runoff of Lai Nullah Basin in Islamabad, Pakistan. *Landscape and Urban Planning* 102(4), 271-279.
- Ayana, V., & Vargheese, K. (2013). Estimation of Flood Hydrograph using IUH and GIUH Based Clark Models. *Proceedings Of International Conference on Materials for the Future- Innovative Materials, Processes, Products and Applications*, 325-29.
- Bobba, A., Singh, V., & Bengtsson, L. (1999). Application of Environmental Models to Different Hydrological Systems. *Ecological Modelling*, 15-49.
- Canfield, H., & Goodrich, D. (1966). Studies of Scale and Processes in Hydrologic Modeling on the Lucky Hills Watershed. *The Journal of 20th Century Contemporary French Studies*, 444-450.
- Choudhari, K., Panigrahi, B., & Paul, J. (2014). Simulation of Rainfall-runoff Process using HEC-HMS model for Balijore Nala Watershed, Odisha, India. *International Journal of Geomatics and GeoSciences*, 253-265.
- Chow, V., Maidment, D., & Mays, L. (1988). *Applied Hydrology*. New York: McGraw-Hill Book Company.
- Chu, X., & Steinman, A. (2009). Event and Continuous Hydrologic Modeling with HEC-HMS. *Journal of Irrigation and Drainage Engineering*, 119-124.
- Cunderlik, J. M., & Simonovic, S. P. (2004). *Calibration, Verification and Sensitivity Analysis of HEC-HMS Model, CFCAS Project*. Ontario: Department of Civil and Environmental Engineering, University of Western Ontario.
- Daofeng, L., Ying, T., Changrning, L., & Fanghua, H. (2004). Impact of Land-cover and Cimate Changes on Runoff of the Source Regions of the Yellow River. *Journal of Geographical Sciences* 14, 3, 330-338.

-
- De Silva, M., Weerakoon, S., & Herath, S. (2014). Modeling of Event and Continuous Flow Hydrographs with HEC-HMS: Case Study in the Kelani River Basin, Sri Lanka. *Journal of Hydrologic Engineering* 19(4), 800–806.
- Duhan, S., & Kumar, M. (2017). Event and Continuous Hydrological Modeling with HEC-HMS: A Review Study. *International Journal of Engineering Technology Science and Research*, 61-66.
- Ellewidana, E., & Navaratne, C. (2017). Stream Flow Modeling In Gin River Basin Using Swat Cup. *22nd International Forestry and Environment Symposium* (p. 86). Colombo: University of Sri Jayewardenepura, Sri Lanka.
- Feldman, A. (2000). *Hydrological Modeling System HEC-HMS, Technical Reference Manual*. Washington: USACE.
- Fleming, M., & Brauer, T. (2018). *Hydrologic Modeling System HEC-HMS, Quick Start Guide*. Washington: USACE.
- Fleming, M., & Neary, V. S. (2004). Continuous Hydrologic Modeling Study with the Hydrologic Modeling System. *JOURNAL OF HYDROLOGIC ENGINEERING (ASCE)*, 175-183.
- Ford, D., Pingel, N., & DeVries, J. (2008). *Hydrological Modeling System HEC-HMS Application Guide*. Washington: USACE.
- Green, I., & Stephenson, D. (1986). Criteria for Comparison of Single Event Models. *Hydrological Sciences Journal*, 395-411.
- Guinot, V., Cappelaere, B., Delenne, C., & Ruelland, D. (2011). Towards improved criteria for hydrological model calibration: theoretical analysis of distance- and weak form-based functions. *Journal of Hydrology*, 1-13.
- Halwatura, D., & Najim, M. (2013). Application of the HEC-HMS Model for Runoff Simulation in a Tropical Catchment. *Environmental Modelling and Software* 46(August): 155–62., 155-162.
- Hettiarachchi, P., & Priyan, D. (2019). *Validation of HEC-HMS for the Kelani River Basin*. Colombo: Hydrological Annual 2018/2019, Irrigation Department.

- Hettiarachchi, P., & Udowita, K. (2015). *Flood Forecasting Model for the Kelani River with HEC HMS Software*. Colombo: Hydrological Annual 2014/15, Irrigation Department.
- Ibrahim-Bathis, K., & Ahmed, S. (2016). Rainfall-Runoff modelling of Doddahalla watershed- an application of HEC-HMS and SCN-CN in ungauged agricultural watershed. *Arabian Journal of Geosciences* 9(3), 1-16.
- Islam, Z. (2011). *A Review on Physically Based Hydrologic Modeling*. Alberta: Department of Civil and Environmental Engineering, University of Alberta.
- Jayadeera, P. (2016). *Development of a Rainfall Runoff Model for Kalu Ganga Basin of Sri Lanka Using HEC-HMS Model*. Colombo: Department of Civil Engineering, University of Moratuwa.
- Jayapadma, J., Wickramaarachchi, T., Silva, G., & Ishidaira, H. (2018). Rainfall-Runoff Modelling Using MIKE11 (NAM Model): A Case Study of Gin River Basin. *6th International Symposium on Advances in Civil and Environmental Engineering Practices for Sustainable Development (ACEPS-2018)* (pp. 231-238). Galle: University of Ruhuna.
- Joo, J., Kjeldsen, T., Kim, H.-J., & Lee, H. (2013). A comparison of two event-based flood models (ReFH-rainfall runoff model and HEC-HMS) at two Korean catchments, Bukil and Jeungpyeong. *KSCE Journal of Civil Engineering*, 330-343.
- Kaatz, J. A. (2014). *Development of a HEC-HMS Model to Inform River Gauge Placement*. Department of Civil and Environmental Engineering, Massachusetts Institute of Technology.
- Kamali, B., & Mousavi, J. (2014). Automatic Calibration of HEC-HMS Model Using Multi-Objective Fuzzy Optimal Models. *Civil Engineering Infrastructures Journal*, 1-12.
- Kamran, M. (2017). *Effect of Watershed Subdivision and Antecedent Moisture Condition on HEC-HMS Model Performance in the Maha Oya Basin, Sri Lanka*. Colombo: Department of Civil Engineering, University of Moratuwa.

-
- Kanchanamala, D., Herath, H., & Nandalal, K. (2016). Impact of Catchment Scale on Rainfall Runoff Modeling: Kalu Ganga River Catchment Upto Ratnapura. *Engineer - Journal of the Institution of Engineers, Sri Lanka* , 1-7.
- Kim, J., Kim , D., Joo, H., Noh, H., Lee , J., & Kim , H. (2018). Case Study: On Objective Functions for the Peak Flow Calibration and for the Representative Parameter Estimation of the Basin. *Water (MDPI)*, 614-634.
- McCuen, R. (1973). The Role of Sensitivity Analysis in Hydrologic Modeling. *Journal of Hydrology*, 37-53.
- Nandalal, H., & Ratnayake, U. (2010). Event Based Modeling of a Watershed Using HEC-HMS. *Engineer-Journal of the Institution of Engineers, Sri Lanka* 43(2), 28-37.
- Oleyiblo, J., & Li, Z.-j. (2010). Application of HEC-HMS for Flood Forecasting in Misai and Wan'an catchments in China. *Water Science and Engineering*, 14-22.
- Ouedraogo, W. A., Raude, J. M., & Gathenya, J. M. (2018). Continuous Modeling of the Mkurumudzi River Catchment in Kenya Using the HEC-HMS Conceptual Model: Calibration, Validation, Model Performance Evaluation and Sensitivity Analysis. *Hydrology* 5(3).
- Pechlivanidis, I., Jackson, B., Mcintyre, N., & Wheeler, H. (2011). Catchment Scale Hydrological Modelling: A Review of Model Types, Calibration Approaches and Uncertainty Analysis Methods in the Context of Recent Developments in Technology and Applications. *GlobalNEST International Journal* 13(3), 193-214.
- Pujara, H., Joshipura, N., & Joshi, S. (2015). A Critical Review on Applicability of HEC-HMS Software for Hydrological Parameter Estimation: A Case Study of Hadamtala Basin. *International Journal for Scientific Research & Development*, 3032-3035.
- Rathod, P., Borse, K., & Manekar, V. (2015). Simulation of Rainfall - Runoff Process Using HEC-HMS (Case Study : Tapi River , India). *20th International*

- Conference on Hydraulics, Water Resources and River Engineering* (pp. 17–19). Roorkee: IIT Roorkee, India.
- Ratnayake, U., Sachindra, D., & Nandalal, K. (2010). Rainfall Forecasting for Flood Prediction in the Nilwala Basin. *International Conference on Sustainable Built Environment (ICSBE-2010)* (pp. 355-362). Kandy: Faculty of Engineering, University of Peradeniya, Sri Lanka.
- Rauf, A.-u., & Ghumman, A. (2018). Impact Assessment of Rainfall-Runoff Simulations on the Flow Duration Curve of the Upper Indus River—A Comparison of Data-Driven and Hydrologic Models. *Water*.
- Razmkhah, H. (2016). Comparing Performance of Different Loss Methods in Rainfall-Runoff Modeling. *Water Resources* , 207-224.
- Romali, N., Yusop, Z., & Ismail, A. (2018). Hydrological Modelling using HEC-HMS for Flood Risk Assessment of Segamat Town, Malaysia. *IOP Conference Series Materials Science and Engineering*.
- Roy, D., Begam, S., Ghosh, S., & Jana, S. (2013). Calibration and Validation of HEC-HMS Model for a River Basin in Eastern India. *ARPJN Journal of Engineering and Applied Sciences* 8(1), 40–56.
- Saleh, A., Ghobad, R., & Rostami, N. (2011). Evaluation of HEC-HMS methods in surface runoff simulation (Case study: Kan watershed, Iran). *Advances in Environmental Biology*, 1316-1321.
- Sampath, D. S., Weerakoon, S. B., & Herath, S. (2015). HEC-HMS Model for Runoff Simulation in a Tropical Catchment with Intra-Basin Diversions – Case Study of the Deduru Oya River Basin, Sri Lanka. *Engineer - Journal of the Institution of Engineers, Sri Lanka*, 1-9.
- Sardoii, E., Rostami, N., Khalighi, S., & Taheri, S. (2012). Calibration of loss estimation methods in HEC-HMS for simulation of surface runoff (case study: Amirkabir dam watershed, Iran). *Advances in Environmental Biology*, 343-348.
- Subramanya, K. (2008). *Engineering Hydrology*. New Delhi: McGraw-Hills Companies.

-
- Sudheer, K., Chaubey, I., Garg, V., & Migliaccio, K. (2006). Impact of time-scale of the calibration objective function on the performance of watershed models. *Hydrological Processes*, 3409-3419.
- Tassew, B., Belete, M., & Miegel, K. (2019). Application of HEC-HMS Model for Flow Simulation in the Lake Tana Basin: The Case of Gilgel Abay Catchment, Upper Blue Nile Basin, Ethiopia. *Hydrology*, 6-21.
- Ud Din, A. (2018). *Analysis of the Effect of Loss and Baseflow Method and Catchment Scale on Performance of the HEC-HMS Model for Kelani River Basin, Sri Lanka*. Colombo: Department of Civil Engineering, University of Moratuwa.
- Wickramaarachchi, T. N., Ishidaira, H., & Wijayarathna, N. (2012). An Application of Distributed Hydrological Model, YHyM/BTOPMC to Gin Ganga Watershed, Sri Lanka. *Engineer - Journal of the Institution of Engineers, Sri Lanka* 45(2), 31-40.
- Wijesekara, N. (2010). Surface Water Resources and Climate Change. *National Forum on Water Research 'Identification of Gaps and Priorities'* (pp. 68-98). Colombo: National Science Foundation.
- Yilmaz, K., Vrugt, J., Gupta, H., & Sorooshian, S. (2010). Chapter 03, Model Calibration in Watershed Hydrology. In *Advances in Data-Based Approaches for Hydrologic Modeling and Forecasting* (pp. 53-105).
- Zegelew, D. G., & Melesse, A. M. (2018). Applicability of a Spatially Semi-Distributed Hydrological Model for Watershed Scale Runoff Estimation in Northwest Ethiopia. *Water (Switzerland)*, 10-12.
- Zegelew, D., & Langon, S. (2019). Selection of Appropriate Loss Methods in HEC-HMS Model and Determination of the Derived Values of the Sensitive Parameters for Un-Gauged Catchments in Northern Ethiopia. *International Journal of River Basin Management*, 1-31.
- Zema, D., Labate, A., Martino, D., & Zimbone, S. (2016). Comparing Different Infiltration Methods of the HEC-HMS Model: The Case Study of the Mésima Torrent (Southern Italy). *Land Degradation & Development*, 294-308.

Zhang, H., Wang, Y., Wang, Y., Li, D., & Wang, X. (2013). The effect of watershed scale on HEC-HMS calibrated parameters: a case study in the Clear Creek watershed in Iowa, US. *Hydrology and Earth System Sciences*, 2735-2745.