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### **Publication:**

#### **□ Research [International Journal Papers-Commencing with the latest]**

1. Malik A, Shakir AS, **Ajmal M**, Khan MJ, and Khan TA (2017). Assessment of AquaCrop model in simulating Sugar Beet canopy cover, biomass and root yield under different irrigation and field management practices in semi-arid regions. *Water Resources Management*, doi:10.1007/s11269-017-1745-z (**IF = 2.437**).
2. Khan M, Tufail M, **Ajmal M**, Haq ZU, and Kim T-W (2017). Experimental analysis of the scour pattern modeling of scour depth around bridge piers. *The Arabian Journal for Science and Engineering*. doi: 10.1007/s13369-017-2599-7 (**IF = 0.728**).
3. Ali S, **Ajmal M**, Khan MS, Shah SU (2017). Assessment of precipitation trends in Gilgit–Baltistan (Pakistan) for the period of 1980–2015: An indicator of climate change. *Journal of Himalayan Earth Sciences*. Vol. 50, No. 1A, pp. 66-75. (**HEC X-Category**)
4. Waseem M, **Ajmal M**, Lee JH, Kim T-W (2016). Multivariate drought assessment considering the antecedent drought conditions. *Water Resources Management*, Vol. 30, No. 12, pp. 4221–4231. (**IF = 2.437**)
5. **Ajmal M**, Kim T-W, and Ahn JH (2016). Stability Assessment of Curve Number methodology to estimate excess rainfall in forest-dominated watersheds. *Arabian Journal of Geosciences*, Vol. 9, No. 5, pp. 1-14. (**IF = 1.224**)
6. Shin J, **Ajmal M**, Yoo J, Kim T-W (2016). A Bayesian network-based probabilistic framework for drought forecasting and outlook. *Advances in Meteorology* Vol. 2016, Article ID 9472605. (**IF = 0.946**)



7. Moon G-W, **Ajmal M**, Ahn JH, Kim T-W (2016). Investigating Practical Alternatives to the NRCS-CN Method for Direct Runoff Estimation Using Slope-Adjusted Curve Numbers. *KSCE Journal of Civil Engineering*, doi: 10.1007/s12205-016-0148-7 (**IF = 0.60**)
8. **Ajmal M**, Waseem M, Ahmad W, and Kim T-W (2016). Soil moisture dynamics with hydro-climatological parameters at different soil depths. *Environmental Earth Sciences*, 75:133. (**IF = 1.765**)
9. **Ajmal M**, Waseem M, Ahn J-H, and Kim T-W (2016). Runoff Estimation using NRCS Slope-adjusted Curve Number in Mountainous Watersheds. *Journal of Irrigation and Drainage Engineering*, Vol. No. 142, Issue 4, doi: [10.1061/\(ASCE\)IR.1943-4774.0000998](https://doi.org/10.1061/(ASCE)IR.1943-4774.0000998), 04016002. (**IF = 1.364**)
10. **Ajmal M**, Waseem M, Kim S, Kim T-W (2016). Potential implications of pre-storm soil moisture on hydrological prediction. *Journal of Hydro-environment Research*, Volume 11, pp. 1-15. (**IF = 2.474**)
11. **Ajmal M**, Khan TA, Kim T-W (2016). A CN-Based Ensembled Hydrological Model for Watershed Enhanced Runoff Prediction. *Water*, Volume 8, No. 1, Article No. 20. (**IF = 1.428**)
12. **Ajmal M**, Ahn J-H, and Kim T-W (2016). Excess stormwater quantification in ungauged watersheds using event-based modified NRCS model. *Water Resources Management*, Vol. 30, pp. 1433–1448. (**IF = 2.437**)
13. Waseem M, **Ajmal M**, and Kim T-W (2016). Improving Flow Duration Curve Predictability at Ungauged Site Using Constrained Hydrologic Regression Technique. *KSCE Journal of Civil Engineering*, doi: 10.1007/s12205-016-0038-z. (**IF = 0.60**)
14. Waseem M, **Ajmal M**, Kim T-W (2015). Development and Evaluation of Extended Inverse Distance Weighting Method for Streamflow Estimation at Ungauged Site. *Hydrology Research*, doi: 10.2166/nh.2015.117. (**IF = 1.555**)
15. **Ajmal M**, Waseem M, Wi S, Kim T-W (2015). Evolution of a parsimonious rainfall-runoff model using soil moisture proxies. *Journal of Hydrology*, Vol. 530, pp 623-633. (**IF = 3.043**)
16. Waseem M, **Ajmal M**, and Kim T-W (2015). Development of a new composite drought index for multivariate drought assessment. *Journal of Hydrology*, Volume 527, pp 30-37. (**IF = 3.043**)
17. Park D-H, **Ajmal M**, Ahn J-H, Kim T-W (2015). Improving initial abstraction method of NRCS-CN for estimating effective rainfall. *Journal of Korea Water Resources Association*, Volume 48, Issue 6, pp 491-500.
18. Waseem M, **Ajmal M**, and Kim T-W (2015). Ensemble hydrological prediction of streamflow percentile at ungauged basins in Pakistan. *Journal of Hydrology*, Volume 525, pp 130-137. (**IF = 3.043**)

19. **Ajmal M**, Moon, G, Ahn J-H, Kim T-W (2015). Investigation of SCS-CN and its inspired modified models for runoff estimation in South Korean watersheds. *Journal of Hydro-environment Research*, 9(4), 592-603. [doi:10.1016/j.jher.2014.11.003](https://doi.org/10.1016/j.jher.2014.11.003). (IF = 1.971)
20. **Ajmal M**, Waseem M, Ahn J-H, and Kim T-W (2015). Improved Runoff Estimation Using Event-Based Rainfall-Runoff Models. *Water Resources Management*, Volume 29, Issue 6, pp 1995-2010. (IF = 2.437)
21. **Ajmal M** and Kim T-W (2015). Quantifying Excess Stormwater Using SCS-CN-Based Rainfall Runoff Models and Different Curve Number Determination Methods. *Journal of Irrigation and Drainage Engineering*, Volume 141, Issue 3, article No. 04014058. (IF = 1.364)

#### □ Publications Under Review

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1. **Ali S**, **Ajmal M**, **Khan MS** and **Shah SU** (2016). Conflicting signals of dry/wet rainfall pattern over Punjab (Pakistan) during 1961-2015: Complex seasonal changes. JEAS, UET, Peshawar.

#### □ International Conference Papers

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- 1) **Ajmal M**, Ahn J-H and Kim T-W (2015). Empirical Evaluation and Comparison of Discrete and Variable Initial Abstraction in the Curve Number Model. Asia Oceania Geosciences Society (AOGS), 12th Annual Meeting 2-7 Aug. 2015, Singapore.
- 2) **Ajmal M**, Hwang MH and Kim T-W (2015). Future Perspectives of Drought Management Incorporating Interconnection of Climate Change and Extreme Drought. Asia Oceania Geosciences Society (AOGS), 12th Annual Meeting 2-7 Aug. 2015, Singapore.
- 3) Waseem M, **Ajmal M**, Kim T-W (2014). Prediction of regionalize flow duration curve using multiple factor weighted sorting algorithm. *Korea Water Resources Association Conference*, 15-16 May 2014.  
[http://www.ceric.net/wonmun2/kwra/KWRA\\_4\\_2014\\_05\\_275%28C%29.pdf](http://www.ceric.net/wonmun2/kwra/KWRA_4_2014_05_275%28C%29.pdf)  
<http://adsabs.harvard.edu/abs/2014EGUGA..16.1839K>
- 4) Kim T-W, **Ajmal M**, Shin J (2014). Identification of Temporal Trends of Extreme Discharge in Arctic Regions. *European Geosciences Union (EGU) General Assembly 2014* Vienna, Austria, 27 April – 02 May 2014.  
<http://meetingorganizer.copernicus.org/EGU2014/EGU2014-1839.pdf>  
<http://adsabs.harvard.edu/abs/2014EGUGA..16.1839K>
- 5) Waseem M, **Ajmal M**, Kim T-W (2013). Regional Approach for Estimating Design Discharge at Ungauged site in Pakistan. 6<sup>th</sup> Conference of the *Asia Pacific Association of Hydrology and Water Resources (APHW)* (Climate Change and Water Security) conducted on 19-21<sup>st</sup> August, 2013 (Page#34 in the link below).  
[http://kuwater.korea.ac.kr/data/upload/Session\\_Schedule\\_Oral\\_20130815.pdf](http://kuwater.korea.ac.kr/data/upload/Session_Schedule_Oral_20130815.pdf)

- 6) **Ajmal M**, Kim T-W and Ahn J-H (2013). Modified SCS-CN Approaches for Estimating Effective Rainfalls in Korea. 2nd International Symposium on Advanced Technology for River Management, on 7-9th November, 2013 (Pages: 243-248).  
<http://www.arcrom.re.kr/en/board?bm=v&bbsidx=3046>
- 7) **Ajmal M**, Kim T-W, Moon G-W and Yoo JY (2013). Effective Rainfall-Runoff Model Selection for Korean Watersheds. The KSCE Civil Conference and Expo conducted on 23-25<sup>th</sup> October 2013 in the Conventional Kangwon-do Hotel Sponsored by the Korean Society of Civil Engineers (KSCE), Korea.