

Research Publications in Referred Journals

1. Poojitha S.N, Gagandeep Singh, **V. Jothiprakash**, (2020) Improving the optimal solution of GoYang network - using genetic algorithm and differential evolution *IWA Journal of Water Supply* Vol. 20, No. 1, pp. 95–102.
2. Priyank Sharma, P.L. Patel, and **V. Jothiprakash**, (2020) Hydroclimatic Teleconnections of large-scale Oceanic-Atmospheric Circulations on basin-scale Hydrometeorological Extremes of Tapi Basin, India, *Journal of Atmospheric Research*, Vol. 235, (2020), pp 104791 <https://doi.org/10.1016/j.atmosres.2019.104791>
3. Deepali M., R.B. Magar and **V. Jothiprakash**, (2019) Intermittent Reservoir Daily Inflow Prediction using Stochastic and Model Tree Techniques, *Journal of Institution of Engineers, India, Series A* Vol. 100, No.3, pp 439-446. <https://doi.org/10.1007/s40030-019-00368-w>
4. Priyank J. Sharma, P. L. Patel and **V. Jothiprakash**, (2019) Assessment of Variability in Runoff Coefficients and their Linkages with Physiographic and Climatic Characteristics of Two Contrasting Catchments, *Journal of Water and Climate Change*, Vol. 10, No. 3, pp. 464-483. <https://doi.org/10.2166/wcc.2018.139>
5. Drissia T K, **V Jothiprakash** and A B Anitha, (2019) Statistical classification of streamflow based on flow variability in west flowing rivers of Kerala, India, *Theoretical and Applied Climatology*, Vol. 137, No. 3, pp. 1643-1658. <https://doi.org/10.1007/s00704-018-2677-0>
6. Priyank J. Sharma, P. L. Patel and **V. Jothiprakash**, (2019) Impact of Rainfall Variability and Anthropogenic Activities on Streamflow Changes and Water Stress Conditions across Tapi Basin in India, *Science of the Total Environment*, 687, 885-897 (Elsevier IF: 4.610) <https://doi.org/10.1016/j.scitotenv.2019.06.097>
7. Srivalli N.S.Ch, **V. Jothiprakash**, and B. Sivakumar, (2019) Complexity of Streamflows in the west flowing rivers of India, *Stochastic Environmental Research and Risk Assessment*, 33, pp 837-853. <https://doi.org/10.1007/s00477-019-01665-3>
8. Vignesh R, **V. Jothiprakash** and B. Sivakumar, (2019) Spatial Rainfall Variability in Peninsular India: A Nonlinear Dynamic Approach, *Stochastic Environmental Research and Risk Assessment*, Vol. 33, pp 465-480. <https://doi.org/10.1007/s00477-018-1622-1>
9. Drissia T K, **V Jothiprakash** and A B Anitha, (2019) Flood Frequency analysis using L moments: A comparison between at site and regional approach, *Water Resources Management*, Vol. 33, No. 3, pp 1013–1037. <https://doi.org/10.1007/s11269-018-2162-7>
10. Sivakumar B, F.M. Woldemeskei, R. Vignesh, and **V. Jothiprakash** (2019), A Correlation-Scale-Threshold Method for Spatial Variability of Rainfall, *Hydrology, MDPI*, 6, 11; [doi:10.3390/hydrology6010011](https://doi.org/10.3390/hydrology6010011)

11. Prajakta P. Gadge, **V. Jothiprakash**, V. V. Bhosekar, (2019) Hydraulic Design Considerations for Orifice Spillways, *ISH Journal of Hydraulic Engineering*, Vol. 25, No. 1, pp12-18. doi.org/10.1080/09715010.2018.1423579
12. Wu. Y., F Zhao, S Liu, L Wang, L Qiu, G Alexandrov and **V Jothiprakash (2018)**, Bioenergy Production and Environmental Impacts, *Geoscience Letters*, Vol. 2014, 5-14. <https://doi.org/10.1186/s40562-018-0114-y>
13. Martina Zeleňáková, **V Jothiprakash**, S Arjun and Helena Hlavatá, (2018) Dynamic analysis of meteorological parameters in Košice climatic station in Slovakia, *Water*, Vol. 10, No. 702, pp 1-10. [doi:10.3390/w10060702](https://doi.org/10.3390/w10060702)
14. **Jothiprakash, V.**, Prajakta P Gadge, and V.V. Bhosekar, (2018) Design of Bottom and Roof Profiles of an Orifice Spillway Using Physical and Numerical Models, *Dam Engineering*, Vol. XXVIII, No. 4, pp 127 – 146.
15. Poornima Unnikrishnan and **V. Jothiprakash**, (2018) Daily rainfall forecasting for one year in a single run using Singular Spectrum Analysis, *Journal of Hydrology*, Vol. 561, pp 609-621. <https://doi.org/10.1016/j.jhydrol.2018.04.032>
16. Prajakta P. Gadge, **V. Jothiprakash**, Bhosekar V. V. (2018) “Hydraulic investigation and design of roof profile of an orifice spillway using experimental and numerical models”, *IAHR Journal of Applied Water Engineering and Research*, Vol. 6, No. 2, pp. 84-94. <http://dx.doi.org/10.1080/23249676.2016.1214627>
17. Poornima Unnikrishnan and **V. Jothiprakash (2018)** Data Driven Multi Step Ahead Daily Rainfall Forecasting Using Singular Spectrum Analysis Based Data Pre-Processing, *Journal of Hydroinformatics*, Vol. 20. No. 3, pp 645-667. DOI: 10.2166/hydro.2017.029
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21. Rao. C.J, **V. Jothiprakash**, and T.I. Eldho, (2017) Design of a Pipe Network using the Finite Element Method Coupled with Particle Swarm Optimization, *ASCE Journal of Pipeline Systems-Engineering and Practice*, Vol. 8, No. 4, pp. 04017019

22. Arunkumar R., and **V. Jothiprakash, (2017)** Optimal crop plan for a Multi-Reservoir System Having Intra-basin Water Transfer Using Multi-objective Evolutionary Algorithms coupled with Chaos, *Computers and Electronics in Agriculture*, Vol. 140(2017), pp. 34-47.
23. Zope, P.E., Eldho, T. I., and **Jothiprakash, V. (2017)**, Hydrological Impacts of Land Use-Land Cover Change and Detention Basins on Urban Flood Hazard: A Case Study of Poisar River Basin, Mumbai, India, *Natural Hazards*, Vol. 87, No. 3, 1267-1283.
24. Prajakta P. Gadge, **V. Jothiprakash**, and Bhosekar V. V., (2017) Estimation of coefficient of discharge of an orifice spillway - a basic research study, *Dam Engineering*, Vol. XXVII, No. 2, pp 63-79.
25. Arunkumar R and V. **Jothiprakash, (2016)** A Multiobjective Fuzzy Linear Programming for Sustainable integrated operation of a Multireservoir System, *Lakes and Reservoirs: Research and Management*, Vol. 21, No. 3, pp 171-187.
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