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PUBLICATIONS

Journal Publications

1. Kasiviswanathan, K.S., Sudheer, K.P., **Soundharajan, B.**, and Adeloje, A.J. (2020) Implications of uncertainty in inflow forecasting on reservoir operation for irrigation. *Paddy and Water Environment*, DOI: <https://doi.org/10.1007/s10333-020-00822-7>
2. Aadithyaa, M., Kasiviswanathan, K.S., Mohanasundaram, S., Idhayachandhiran, I., He, J.H., Pingale, S.M., **Soundharajan, B.**, Mohaideen, M.M.D. (2020) Trends and non-stationarity in groundwater storage changes in rapidly developing Indian cities. *Water*, 12, 3209, DOI: <https://doi.org/10.3390/w12113209>
3. Varma, D.S., Anilkumar, S., Raja, V., Raj, A.R., **Soundharajan, B.**, Mohan, R., and Thirunjanam (2020) System design for integrated technologies for building water wise communities. Kumar et al (eds) ICDSMLA 2019 Lecture Notes in Electrical Engineering Book Series, 601, Springer Nature, DOI: https://doi.org/10.1007/978-981-15-1420-3_159
4. Adeloje, A.J., Wuni, I., Dau, Q., **Soundharajan, B.**, and Kasiviswanathan, K.S. (2019) Height-Area-Storage functional models for evaporation loss inclusion in reservoir planning analysis. *Water*, 11(7), DOI: <https://doi.org/10.3390/w11071413>
5. Birhanu, A., Pingale, S.M., **Soundharajan, B.**, Singh, P. (2019) GIS based surface irrigation potential assessment for Ethiopian sub-catchment, *Irrigation and Drainage*, DOI:10.1002/ird.2346
6. Adeloje, A.J and **Soundharajan, B.** (2018) Effect of dynamically varying zone- based hedging policies on surface water reservoir operational performance during climate change. *The Geological Society (UK) Special Publication*, 488, DOI: <https://doi.org/10.1144/SP488.1>
7. Adeloje, A.J., **Soundharajan, B.** (2018) Effect of reservoir zones and hedging factor dynamism on reservoir adaptive capacity for climate change impacts. *Proc. IAHS*. 379: 21-29. <https://doi.org/10.5194/piahs-379-21-2018>
8. Adeloje, A.J., **Soundharajan, B.**, Mohammed, S.A. (2017) Harmonisation of reliability performance indices for planning and operational evaluation of water supply reservoirs. *Water Resources Management*, 31(3):1013-1029
9. **Soundharajan, B.**, Adeloje, A.J., and Remesan, R. (2016) Evaluating the variability in surface water reservoir planning characteristics during climate change impacts assessment. *Journal of Hydrology*, 538:625-639
10. Adeloje, A.J., **Soundharajan, B.**, Ojha, C.S.P., Remesan, R (2016). Effect of hedging integrated rule curves on the performance of the Pong Reservoir (India) during scenario-neutral climate change perturbations. *Water Resources Management*. 30(2):445-470.
11. Chiamsathit, C., Adeloje, A.J., **Soundharajan, B.** (2016). Inflow forecasting using artificial neural networks for reservoir operation. *Proc. IAHS*, 373:209-214.

12. Adebayo, A.J., **Soundharajan, B.**, Musto, J.N., Chiamsathit, C. (2015) Stochastic assessment of Phien generalized reservoir storage-yield-probability models using global runoff data records. ***Journal of Hydrology***, 529(3):1433-1441.
13. **Soundharajan, B.**, Adeloje, A.J., Remesan, R. (2015) Quantifying the uncertainty of climate change effects on the storage-yield and performance characteristics of the Pong multi-purpose reservoir, India. ***Proc. IAHS***. 92(1-9), DOI:10.5194/piahs-92-1-2015.
14. Chiamsathit, C., Adeloje, A.J. and **Soundharajan, B.** (2014) Assessing competing policies at Ubonratana reservoir, Thailand. ***ICE Water Management***. 167(10): 551-560.
15. **Soundharajan, B** and Sudheer, K.P (2013) Sensitivity Analysis and auto-calibration of ORYZA2000 using simulation-optimization framework. ***Paddy and water environment***, 11(1): 59-71.
16. **Soundharajan, B** and Sudheer, K.P (2009) Deficit irrigation management for rice using crop growth simulation model in an optimization framework. ***Paddy and water environment***, 7(2):135-149.
17. **Soundharajan, B** and Sudheer, K.P.(2011). Irrigation water allocation in a Simulation-Optimization framework. ***Water and Energy International (CBIP)***, 68(9): 40-47.
18. Balakrishnan, M., Visvanathan, R., **Soundharajan, B.** and Sreenarayanan, V.V. (2010) A hand operated rotary type cleaner-cum-grader for black pepper and cardamom. ***Agricultural Mechanization in Asia, Africa, and Latin America***, 41(3):36-40.
19. Balamurugan, M., Kasiviswanathan, K.S., Idhayachandiran, I., **Soundharajan, B.** (2020) Effects of COVID-19 lockdown on water resources in India: Challenges and Opportunities. *Frontiers in Water* (***under revision***).
20. Muthuraman, R.M., Murugappan, A., **Soundharajan, B** (2020) A sustainable material for removal of heavy metals from water: adsorption of Cd(II), Pb(II) and Cu(II) using kinetic mechanism. *Desalination and Water Treatment* (***under revision***).
21. Varma, D.S., Vishakh Raja, P.C., **Soundharajan, B.**, Nandan, K., Perez, M.L., Sidharth, K.A., Ramesh, M.V (2020) Participatory design approach to solve water crisis in the village of Karkatta, Jharkhand, India. *Technological Forecasting and Social Change* (***under revision***).