

Research Publications in International Conferences

1. Namitha E S, **V Jothiprakash**, Bellie Sivakumar, Chaotic Analysis of Runoff Time Series in Savitri River Basin, *Proceedings of International Hydraulics, Water Resources and Coastal Engineering, HYDRO-2019*, Osmania University, Hyderabad, on Dec 18-19, 2019, pp 3294-3302, Vol. II.
2. Priyank J. Sharma, P. L. Patel and **V. Jothiprakash**, Hydroclimatic teleconnections of large scale circulations on variability of monsoon inflows into Ukai reservoir, India, *Proceedings of International Hydraulics, Water Resources and Coastal Engineering, HYDRO-2019*, Osmania University, Hyderabad, on Dec 18-19, 2019, pp 1939-1947, Vol. II.
3. **Jothiprakash V**, B. Sivakumar, Mohit Udenia, Himanshu Jotaniya, False Nearest Neighbour Method for the Analysis of Sea Surface Temperature Time Series, *The Fifth International Conference in Ocean Engineering ICOE2019*, Indian Institute of Technology Madras and University of Mauritius, 29th July to 1st Aug. 2019
4. Praveen Kumar Ch, V. D. Regulwar, S. N. Londhe and **V. Jothiprakash**, Determination of Reservoir Inflows from River Basin using Soil and Water Assessment Tool (SWAT) and SWAT-CUP: A Case Study, *11th World Congress on Water Resources and Environment (EWRA 2019) "Managing Water Resources for a Sustainable Future"* Madrid, Spain, 25-29 June 2019 pp 231.
5. **Jothiprakash V.**, Soft Computing Techniques in Rainfall-Runoff Models, *International Conference on Sustainable Practices and Innovations in Civil Engineering (SPICE 2019)*, SSN College of Engineering, Chennai, Tamil Nadu, 26th and 27th Mar. 2019
6. **Jothiprakash V**, Marcus Joseph Tobias, and M Mohan, Analysis of the Effluent Characteristics of a Municipal Sewage Treatment Plant, *International Conference on Industrial Water, Energy and Environment*, 25-26 January, 2019, CODISSIA, Coimbatore
7. Drissia T.K., **Jothiprakash V**, A B Anitha, Regionalisation of Watersheds using Fuzzy C means clustering Algorithms in West Flowing Rivers of Kerala, *Proceedings of the International Conference on Hydraulics, Water Resources and Coastal Engineering, HYDRO-2018*, Indian Society of Hydraulics, Pune and National Institute of Technology Patna, Dec. 19-21, 2018, Theme No. V. pp-225.
8. Seelam Naga Poojitha, and **Jothiprakash V**, Bio Inspired Genetic Algorithms for Optimal Design of Water Distribution Networks, *Proceedings of the International Conference on Hydraulics, Water Resources and Coastal Engineering, HYDRO-2018*, Indian Society of Hydraulics, Pune and National Institute of Technology Patna, Dec. 19-21, 2018, Theme No. III, pp-131.

9. Priyank J. Sharma, P. L. Patel and **V. Jothiprakash**, Changes in Monthly Hydro-Climatic Indices for Middle Tapi Basin, India, *Proceedings of the International Conference on Hydraulics, Water Resources and Coastal Engineering, HYDRO-2018*, Indian Society of Hydraulics, Pune and National Institute of Technology Patna, Dec. 19-21, 2018, Theme No. II, pp-87.
10. Praveenkumar Ch, and **Jothiprakash V**, Spatio-temporal trend analysis of long term IMD gridded precipitation in Godavari River Basin, India, *Proceedings of the International Conference on Hydraulics, Water Resources and Coastal Engineering, HYDRO-2018*, Indian Society of Hydraulics, Pune and National Institute of Technology Patna, Dec. 19-21, 2018, Theme No. II, pp-53.
11. Martina Zelenakova, Pavol Purcz, **V. Jothiprakash**, Helena Hlavatá, Precipitation Time Series Trend Analysis in Kosice, Slovakia, AOGS 2018, 15th Annual Meeting, Asisa Oceania Geosciences Society, 3-8, Jun 2018 Honolulu, Hawaii.
12. **Jothiprakash V**, Poornima Unnikrishnan and Martina Zelenakova, Singular Spectrum Analysis in Hydrologic Time Series Modelling, International Conference on Changing Paradigms and Emerging Challenges in Statistical Sciences (IPECS-2018), in Conjunction with Bi-Decennial Conference of Society of Statistics, Computer and Applications (SSCA), Pondicherry University, Pondicherry, 29-31- Jan. 2018.
13. Praveenkumar, Ch, and **V. Jothiprakash**, Evaluation of daily TMPA rainfall for rainfall-runoff modelling using SWAT in Indravati River Basin, India, International Conference on Soil and Water Assessment Tool, SWAT 2018, Indian Institute of Technology Madras, Chennai, 10-12 Jan. 2018.
14. Priyank Sharma, P.L. Patel and **V. Jothiprakash**, Assessing the Impact of Hathnur Reservoir on Hydrological Regime of Tapi River, India, 22nd International Conference on Hydraulics, Water Resources and Coastal Engineering, L.D. College of Engineering, and ISH, HYDRO 2017, Ahmadabad, Gujarat, India.
15. Vignesh R, **V. Jothiprakash**, and B. Sivakumar, Assessment of California's Groundwater Levels Using Nearest Neighbor Algorithm, *IGWC 2017, 7th International GroundWater Conference on Groundwater Vision 2030 Water Security, Challenges and Climate Change Adaptation*, Dec. 11-13, 2017, New Delhi, India.
16. Poornima Unnikrishnan and **V Jothiprakash**, Daily Rainfall Forecasting using Artificial Neural Network, a Case study, December 2017 Virtual Poster Showcase *American Geophysical Union, Fall Meeting, AGU 2017 USA*.
17. Poornima Unnikrishnan and **V Jothiprakash**, Trend Analysis of Daily and Monthly Rainfall Time Series using Mann Kendall Test, Presented at the May 2017 Virtual Poster Showcase, *American Geophysical Union, Spring Meeting, AGU 2017, Washington DC, USA*.
18. Zelenakova M, **Jothiprakash V.**, Purcz P., Unnikrishnan P., and Hlavata H, Investigation of Precipitation Trends in Eastern Slovakia Using Singular Spectrum Analysis, *CEST-2017, 15th International Conference on Environmental Science and Technology, 31 August to 2 September 2017, CEST-2017_00443, Rhodes, Greece*.

19. Drissia T.K., **V. Jothiprakash** and A.B. Anitha, Flood Frequency Analysis and Curves of Equal Predicted Peak Discharge Using Geographical Information System, *37th IAHR World Congress*, August 13-18. 2017, Kuala Lumpur, Malaysia.
20. **Jothiprakash V**, Praveenkumar Ch, and M. Manasa · Daily Runoff Estimation in Musi River Basin, India from Gridded Rainfall using SWAT Model, *EWRA 2017, 10th WORLD CONGRESS on Water Resources and Environment "Panta Rhei"*, 5-9 July 2017, Athens, Greece, pp 63-69
21. Poornima Unnikrishnan and **V Jothiprakash**, Long Term Precipitation Pattern Identification and Derivation of Non Linear Precipitation Trend in a Catchment using Singular Spectrum Analysis, *European Geosciences Union General Assembly, EGU 2017*, Session HS7.1/AS1/11/NH.15/NP10.11 EGU 2017-862, 23-28, April, 2017, Vienna, Austria.
22. Drissia T.K., **V. Jothiprakash** and A.B. Anitha, "Flood Frequency Analysis Using L Moments for Selected River Basins in Kerala", *HYDRO 2016, 21st International Conference on Hydraulics, Water Resources and Coastal Engineering*, 8-10 Dec. 2016, CWPRS, Pune, India. Paper ID 297, pp 841-847.
23. Prajakta P.Gadge, **V. Jothiprakash**, V. V. Bhosekar, "Hydraulic Design Considerations for Orifice Spillways", *HYDRO 2016, 21st International Conference on Hydraulics, Water Resources and Coastal Engineering*, 8-10 Dec. 2016, CWPRS, Pune, India. Paper ID 400, pp 1382-1390.
24. Priyank J. Sharma, P. L. Patel, **V. Jothiprakash** "At-Site Flood Frequency Analysis for Upper Tapi Basin, India", *HYDRO 2016, 21st International Conference on Hydraulics, Water Resources and Coastal Engineering*, 8-10 Dec. 2016, CWPRS, Pune, India. Paper ID 374, pp 1255-1265.
25. Priyank J Sharma, P.L. Patel, and **V. Jothiprakash**, "Seasonal Stochastic Model for Long-Term Reservoir Inflow Forecasting for Ukai Reservoir, India", 20th Congress of the Asia Pacific Division of the International Association for Hydro Environment Engineering & Research (IAHR APD 2016) during August 28 – 31, 2016 at Colombo Sri Lanka.
26. Martina Zelenakova, Pavol Purcz, Helena Hlavatá **Jothiprakash V**, Maria Manuela Portela Trend detection in precipitation data, AOGS-2016, China National Convention Centre, Beijing China, Jul 31-Aug5th 2016, Beijing China.
27. Martina Zelenakova, **Jothiprakash V**, Pavol Purcz, Helena Hlavatá Climatological time series trend analysis in Kosice, Slovakia, AOGS-2016, China National Convention Centre, Beijing China, Jul 31-Aug5th 2016, Beijing China
28. Zope, P.E., T.I. Eldho and **V. Jothiprakash**, Flood Plain Simulation of an urban River Catchment: A Case Study, *Sixth International Congress on Computational Mechanics and Simulation (ICCMS)*, June 27-July 1 2016, IIT Bombay.
29. Unnikrishnan Poornima and **V Jothiprakash**, On Selection of window length in Singular Spectrum Analysis of a time series, The International Society for Non Parametric Society Conference (ISNPS) 2016, Avignon in France on 11-16 June 2016.

30. Vignesh R, **V. Jothiprakash**, and Bellie Sivakumar, Chaotic Analysis of Groundwater Levels Using FNN Algorithm, Sixth International Groundwater Conference (IGWC-2015) on Exploration, Assessment and Management of Groundwater Resources in Arid and Semi-Arid Region, SRM University, Civil Engineering Department, Kattankulathur, Chennai, Feb 11-13, 2016.
31. Priyank J. Sharma, P. L. Patel and **V. Jothiprakash**, Stochastic Modelling for Inflow Prediction into Ukai Reservoir, India” 20th International Conference on Hydraulics, Water Resources and River Engineering, HYDRO 2015, IIT Roorkee, India, 17-18, Decemeber, 2015.
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33. Vignesh R, **Jothiprakash, V**, and Bellie Sivakumar, Catchment Classification Using False Nearest Neighbor (FNN) Algorithm_AOGS-2015, Hotel Suncity, Singapore Aug. 2 to 7, 2015.
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36. Priyank J. Sharma , P. L. Patel , **V. Jothiprakash.**, Performance Evaluation of A Multi Purpose Reservoir Using Simulation Models for Different Scenarios, International Conference on Hydraulics, Water Resources, Coastal and Environmental Engineering , (HYDRO 2014) December 18-20,2014, Maulana Azad National Institute of Technology (MANIT), Madhya Pradesh, Bhopal. pp 581-597, (Chapter 55).
37. Prajakta P. Gadge , **V. Jothiprakash**, V. V. Bhosekar Numerical Modelling for Orifice Spillway, International Conference on Hydraulics, Water Resources, Coastal and Environmental Engineering , (HYDRO 2014) December 18-20,2014, Maulana Azad National Institute of Technology (MANIT), Madhya Pradesh, Bhopal. pp 1217-1227 (Chapter 116)
38. Prajakta P. Gadge, **V. Jothiprakash** and V. V. Bhosekar, Verification Of 3-D Numerical Model For Flow Through Orifice, 19th Congress of the Asia and Pacific Division of the International Association for Hydro-Environment Engineering and Reseach, Hanoi, Vietnam, 21 -24 September 2014.
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40. Arunkumar, R. and **Jothiprakash, V.**, Deriving Optimal Crop Planning for the Command Area of Dimbhe Reservoir, Maharashtra, *XVIII Conference on Hydraulics, Water Resources, Coastal and Environmental Engineering (HYDRO 2013 INTERNATIONAL)*, December 04-06, 2013, Department of Ocean Engineering, IIT Madras, India, pp 1285-1293

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43. Fathima T A and **V. Jothiprakash**, " Behavioural Study of Pan Evaporation Time Series- a Chaotic Approach, *35th IAHR World Congress, Chengdu, China*, 8-13 Sep. 2013. Paper ID: A11847.
44. Rajendra B. Magar and **V Jothiprakash**, "Application of Artificial Intelligent Techniques for Reservoir Inflow Prediction" *International conference on emerging trends in technology and its applications*, 6th and 7th March 2013. Yadavrao Tasgaonkar Institute of Engineering and Technology, Karjat, Mumbai.
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51. Sivakumar B, V.P. Singh, **V. Jothiprakash** and Vignesh R "Streamflow Dynamics in the Western United States: Implications for Regional Hydrology and Catchment Classification" AOGS – AGU (WPGM) Joint Assembly, Aug 13-17, 2012, Singapore.
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53. **Jothiprakash, V.**, and Magar "Reservoir Inflow Modeling Using Artificial Intelligence Techniques and its Use in Real Life", II Indo-Italian Workshop on Advances in Fluvial Hydraulics and Water Resources Development and Management, July 19-20, 2012, Venice Italy.
54. Zope P., T.I. Eldho and **V. Jothiprakash** "Spatio-Temporal Analysis of Rainfall for Mumbai City", *4th International Congress on Environmental Research*, Dec. 15-17, 2011, SVNIT Surat, India.
55. **Jothiprakash, V** and Manthar V Sathe "Rain water harvesting methods for large scale industrial area" *4th International Conference on the Impact of Climate Change on Groundwater Resources with special reference to Hard Rock Terrain, IGWC-2011*, Sep. 27-30, 2011, Madurai, India.
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69. **Jothiprakash, V**, Mayank Dhobal, Mayak Mehta, and B. Sivakumar “Nonlinear dynamic analysis of reservoir inflows: a case study from South India” *Hydroinformatics in hydrology, hydrogeology and water resources* (proc. of symposium JS.4 at the joint IAHS & IAH convention, Hyderabad, India, IAHS Publ. 331, Sep 11-12, 2009, pp 261-268
70. Garg V and **V. Jothiprakash**, “Reservoir Sedimentation Estimation Using Genetic Programming Technique” *World Environmental and Water Resources Congress, ASCE, Great Rivers, 2009*, Missouri, Kansas City, pp. 1505- 1513.
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74. Suhasini Sakhare and **V. Jothiprakash**, “Time Series Analysis of Ground Water Level Fluctuations using Artificial Neural Network” *12th IACMAG Conference*, Goa, India, 1 to 6 October 2008.
75. **Kote Alka** and V. Jothiprakash, “Reservoir inflow prediction using time lagged recurrent neural networks”, *International Conference on Emerging Trends in Engineering and Technology (ICETET-08)*, G. H. Raison College of Engineering, Nagpur, India, July 16-18, 2008, pp. 618-623
76. **Kote Alka** and V. Jothiprakash, “Seasonal modeling of Pawana reservoir inflow using time lagged recurrent neural networks”, *International Seminar on Civil and Infrastructure Engineering 2008*, University Technology Malaysia, Shah Alam, Selangor, Malaysia, 11-12 June 2008.

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79. **Jothiprakash, V** and Garg V "Trap Efficiency Estimation for Reservoir Sedimentation – A case study" *Proceedings of the 6th International Symposium on Ecohydraulics*, Christchurch, New Zealand, 18-23rd Feb 2007.
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