

Research Publications in National Conferences (113 Presentations)

1. Ramkumar D, **Jothiprakash V**, Water Conservation Practices in Ancient Tamil Nadu: Highlighting the Significance of Temple Tanks, National Youth conference on Indian Knowledge Systems (NYCIKS) – 2023 at IIT Roorkee, India, Aug. 25-28, 2023 (Poster)
2. Ramkumar D, **Jothiprakash V**, Simulating Influent & Effluent Wastewater Treatment Facility Using Hybrid Time Series Modelling, CMINDS Workshop-IIT Bombay, April, 2023 (Poster)
3. Ramkumar, D., **Jothiprakash, V.** Forecasting Hard-to-measure Parameters of Wastewater Treatment Facilities using Machine Learning Techniques, PhD Connect Conclave, IIT Bombay, India, March 11, 2023.
4. Ramkumar D, **Jothiprakash V**, “Comprehending Architecture and Varieties of Temple Tanks in India, National Youth Conference on Indian Knowledge Systems, Chinmaya Vishwa Vidyapeeth, Kerala, India, Feb 3-5, 2023 **Received Best Oral Presentation Award.**
5. Ramkumar D, **Jothiprakash V**, Decoding Ancient Knowledge of Temple Tanks on Lord Shiva’s Pancha Bootha Sthala, First Indian knowledge system Mela, IKS Mela- 2022, All India Council for Technical Education, Delhi, India, July 29-31, 2022 (Poster)
6. Ramkumar D, **Jothiprakash V**, A Feasibility Study on Converting Urban Temple Tank into a Rainwater Harvesting Tank, First Indian knowledge system Mela, IKS Mela- 2022, All India Council for Technical Education, Delhi, India, July 29-31, 2022 (Poster)
7. **Jothiprakash, V.**, and Vaibhav Garg, (2019) Reservoir Sedimentation: A case study, *Two-day national workshop on river-reservoir water management and modelling*, Indian Institute of Technology Kharagpur, 21-22. August 2019.
8. Drissia T K., **V Jothiprakash** and A B Anitha (2018) Flood response to catchment characteristics in west flowing rivers in Kerala, Technical report of 33rd Indian Engineering Congress, Udaipur, December 21-23. CV/176/37, pp 210-214.

9. Priyank J. Sharma, P.L. Patel, and **V. Jothiprakash**,(2018) “Climate Elasticity of Streamflow in Upper Tapi Basin, India” *Diamond Jubilee Conference Next Frontiers in Civil Engineering Sustainable and Resilient Infrastructure* Department of Civil Engineering, IIT Bombay, 30th Nov & 1st Dec.2018, pp. 205 -206. **(Best Paper in Water Resources Engineering Award)**
10. Ramkumar. D, M. Nirmala Devi and **V. Jothiprakash**, (2018) “Temple Tank as a Rainwater Harvesting Structure-A study on Thayumanavar Temple Tank, Tiruchirapalli” *National Seminar on Sustainable Technologies for Intelligent Water and Environmental Management (STIWEM-2018)*, Department of Civil Engineering, Annamalai University, Chidambaram, Tamil Nadu, 22nd & 23rd, March 2018, pp 1-6.
11. Rao C.J., **Jothiprakash, V.** and Eldho T. I. (2018). “Optimal design of Balerna Pipe Network using FEM-PSO algorithm-a case study”, *Proceedings of the National conference on Innovative Water & Sewage Management Practices in Urban Environment*, Indian Water Works Association Mumbai Centre, IIT Bombay, 20-21 Jan. 2018, pp. 125 -129.
12. Drissia T K, **V. Jothiprakash** and Anitha, Trend in daily and annual maximum discharge time series in Kerala, 32nd Indian Engineering Congress, IE(I) India, 21-23, Dec. 2017, Chennai.
13. **Jothiprakash V**, R. Vignesh, T.A. Fathima, A brief note on chaos and its applications in hydrological time series, National Workshop on Water Resources System Modelling, UGC-Centre for Advanced Study, Centre for Water Resources, Department of Civil Engineering, Anna University, Chennai, 9th and 10th March 2017.
14. **Jothiprakash, V.**, and V. Garg, Reservoir Sedimentation – its Consequences in Estimating the Useful Life of a Reservoir, *Proceedings of National workshop on Reservoir Sedimentation – Trends and Techniques of Measurement and Analysis*, February 09 and 10th 2017, CWR, Anna University, Chennai. pp. 29-35.
15. Srivalli, Ch, N.S and **V. Jothiprakash**, Analysis of Spatial Variability of Rainfall Using FNN, *National Conference on Water Resources & Flood Management with special reference to Flood Modelling*, during October 14-15, 2016, SVNIT Surat. WRH-65-1 to WRH-65-5. **(Conference Best Paper Award: Second Prize for the best paper)**

16. Zope, P.E., T.I. Eldho and **V. Jothiprakash**, Impact of Lakes on Flood Plain: A case study of Mithi River Catchment, Mumbai, India, *National Conference on Water Resources & Flood Management with special reference to Flood Modelling*, during October 14-15, 2016, SVNIT Surat. WRF-12-1 to WRF-12-8.
17. Khairnar Abholi. G, T.K. Drissia, **V. Jothiprakash** and A.B. Anitha, Flood Frequency Studies Using L-Moments for Karathodu Station in Kasalundi River Basin, *National Conference on Water Resources & Flood Management with special reference to Flood Modelling*, during October 14-15, 2016, SVNIT Surat. WRH-20-1 to WRH-20-9.
18. Priyank J. Sharma, P.L. Patel, and **V. Jothiprakash**, M5 Model Tree Technique in Daily River Flow Forecasting for Purna River in Tapi Basin, India, *National Conference on Water Resources & Flood Management with special reference to Flood Modelling*, during October 14-15, 2016, SVNIT Surat. WRH-26-1 to WRH-26-11.
19. Praveen Kumar Ch and **V. Jothiprakash** (2016) "Interpolation of Daily Gridded Rainfall Using Empirical Bayesian Griging" *Proceedings of National Conference on Sustainable Water Resources Development and Management* (SWARDAM-2016), during 4th and 5th July, 2016, Government College of Engineering, Aurangabad, Maharashtra, India, pp. 18-21.
20. Zope, P.E., T.I. Eldho and **V. Jothiprakash**, HEC-HMS-RAS Based Flood Modeling, *Proceedings of Workshop on WEB Based Coastal Urban Flood Simulation*, 11 April 2016, pp 37-46 IIT Bombay.
21. **Jothiprakash, V.**, (2015) "Rainwater Harvesting using Percolation Ponds". IWWA-IITB National Seminar on Water Conservation and Rainwater Harvesting" during 14-15 March at IT Bombay, Mumbai, India.
22. **Jothiprakash, V.**, Krishna Dhanya, K. V., and Fathima, T. A. (2014) "Chaotic Analysis of Daily Wind Speed Data". *Two days National Conference on Water, Environment & Society (NCWES-2014)*, during Jun 30th & Jul 1st, 2014 at JNTU, Hyderabad, India, pp. 181 – 186. **(Key note)**
23. Arunkumar, R. and **Jothiprakash, V.**, (2014). Optimizing Reservoir Operation Using Hybrid Chaotic Genetic Algorithm. *Research Scholar and Alumni Symposium (RSAS-2014)*, during 7 - 8th March 2014 held at Indian Institute of Technology Bombay, Mumbai, Maharashtra. pp. 59.

24. Arunkumar, R. and **Jothiprakash, V.**, (2013). Sustainable Crop Planning for A Multi-Reservoir System Using Fuzzy Multi-Objective Approach. *National Conference on Sustainable Water Resources Development and Management (SWARDAM-2013)*, Government College of Engineering, Aurangabad, 30 September - 01 October 2013 pp 236-242.
25. **Jothiprakash, V.**, and Arunkumar, R. (2013). Soft Computing Techniques in Reservoir Optimization. *National Conference on Sustainable Water Resources Development and Management (SWARDAM-2013)*, Government College of Engineering, Aurangabad, 30 September - 01 October 2013, pp 273-282.
26. **Jothiprakash, V.**, Meteorological Drought assessment in Agniar River Basin, IIT B- Purdue Workshop on Drought and Climate Change, 12-13, March 2013, IIT Bombay.
27. **Jothiprakash, V.**, Nonlinear Dynamic Analysis of Oceanographic Parameters-A Chaotic Approach, the proceedings of the CSIR-NIO, Goa - IIT-Bombay workshop held during 7-8 February, 2013, NIO Goa.
28. Bhosekar, V.V., **Jothiprakash, V.** and Deolalikar P. B. (2012) “Studies for Aerator On Flat Slope Surface Spillway”. *National Conference on Hydraulics, Water Resources, Costal and Environmental Engineering (HYDRO-2012)*, during Dec 7 & 8, 2012 at IIT Bombay, India, pp. 1297-1308
29. Krishna Dhanya, K. V., **Jothiprakash, V.** and Fathima, T. A. (2012) “Nonlinear Dynamic Analysis of Wind Speed”. *National Conference on Hydraulics, Water Resources, Costal and Environmental Engineering (HYDRO-2012)*, during Dec 7 & 8, 2012 at IIT Bombay, India, pp. 749 – 756.
30. Magar, R.B., and **Jothiprakash, V.** (2012) “Daily multi-time-step ahead reservoir inflow prediction using linear genetic programming”. *National Conference on Hydraulics, Water Resources, Costal and Environmental Engineering (HYDRO-2012)*, during Dec 7 & 8, 2012 at IIT Bombay, India, pp. 235-242.
31. Arunkumar, R. and **Jothiprakash, V.**, (2012). Optimal Reservoir Operation for Hydropower Generation using Genetic Algorithm. *National Conference on Hydraulics, Water Resources, Costal and Environmental Engineering (HYDRO-2012)*, during Dec 7 & 8, 2012 at IIT Bombay, India, pp. 1419 - 1426.

32. Fathima, T.A. and **V. Jothiprakash** “A Chaotic Analysis of Koyna Reservoir Catchment Rainfall data” *WARMICE-2012, National Symposium on Water Resources Management in Changing Environment*, National Institute of Hydrology, Roorkee, Feb 8-9, 2012, pp 319-327.
33. Arunkumar R and **V. Jothiprakash** “Optimal reservoir operation for hydropower generation”, *National Symposium on Water Resources Management in Changing Environment -WARMICE-2012*, National Institute of Hydrology, Roorkee, Feb 8-9, 2012, pp 311-317.
34. Rao C.J., **Jothiprakash, V.** and Eldho T. I. (2011). “Design of Pipe Network using Real Coded GA: A Case Study of Mira Bhayander Municipal Corporation”, *National conference on Hydraulics and Water Resources – HYDRO 2011*, SVNIT, Surat, 29-30 Dec, 2011, pp. 988 -995.
35. More, D., and **Jothiprakash, V.** (2011). “Koyna Reservoir Inflow Prediction Using Model Tree Technique”, *National conference on Hydraulics and Water Resources – HYDRO 2011*, SVNIT, Surat, 29-30 Dec, 2011, pp. 981 -987.
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37. **Jothiprakash, V.**, and Magar, R.B. (2011). “Real-time Reservoir Inflow Prediction using Soft Computing Techniques”, Theme Lecture, *National Conference on Hydraulics and Water Resources – HYDRO 2011*, SVNIT, Surat, 29-30 Dec, 2011, pp. 920 927.
38. Arunkumar, R., and **Jothiprakash, V.** (2011). “Simulation Studies on a Large Scale Hydropower Reservoir”, *National conference on Hydraulics and Water Resources – HYDRO 2011*, SVNIT, Surat, 29-30 Dec, 2011, pp. 828 -836.
39. Magar, R. B., and **Jothiprakash, V.** (2011). “Hourly Multi-Time-Step Inflow Prediction Using Artificial Neural Network”, *National Conference on Hydraulics and Water Resources – HYDRO 2011*, SVNIT, Surat, 29-30 Dec, 2011, pp. 122 -129.
40. Zope, P.E., Eldho, T.I., and **V. Jothiprakash.** (2011). “Effect of Urbanization on the Poisar River Basin in Mumbai: A Case Study”, *National Conference on Hydraulics and Water Resources – HYDRO 2011*, SVNIT, Surat, 29-30 Dec, 2011, pp. 35 -42.

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43. **Jothiprakash, V**, Arunkumar R and J. Nirmala “Evaluation of Vaigai Operating Rules Using a Simulation Model” *14th National Symposium on Hydrology with Focal Theme on Management of Water Resources Under Drought Situation*, 21-22, Dec. 2010, MNIT Jaipur, pp 58.
44. Rao, C.J., **Jothiprakash, V**, and T.I. Eldho, “Conversion of intermittent Water Supply into Continuous (24X7) Water Supply System - A Case Study” *National Conference on Hydraulics, Water Resources, Coastal and Environmental Engineering, HYDRO 2010*, M.M. University, Mullana (Ambala), 16-18, Dec 2010, pp. 750-756.
45. Harpreet K and **V. Jothiprakash**, “Short Term Rainfall Prediction Using MLR and ANN Models” *National Conference on Hydraulics, Water Resources, Coastal and Environmental Engineering, HYDRO 2010*, M.M. University, Mullana (Ambala), 16-18, Dec 2010, pp. 734-739.
46. Arunkumar R and **V. Jothiprakash**, “A Review on Reservoir Optimization Models Using Genetic Algorithm Technique” *National Conference on Hydraulics, Water Resources, Coastal and Environmental Engineering, HYDRO 2010*, M.M. University, Mullana (Ambala), 16-18, Dec 2010, pp. 719-725.
47. Zope, P.E., T.I. Eldho and **V. Jothiprakash**, “Effect of Urbanization on Flooding and Storm Water Drainage System: Case study of Mumbai, India”, *National Conference on Hydraulics, Water Resources, Coastal and Environmental Engineering, HYDRO 2010*, M.M. University, Mullana (Ambala), 16-18, Dec 2010, pp. 281-288.
48. **Jothiprakash V** and Magar, “Reservoir Inflow Prediction Using Time-Delay Recurrent Neural Network with Spatially Distributed Rainfall Data” *National Workshop on Geo-Statistics and Soft Computing Techniques for Spatial Data Management*, Sri Venkateswara University, Tirupati, 22-25 Nov. 2010.

49. Vaibhav Garg, and **Jothiprakash V**, “Reservoir Sedimentation Studies to Re-Estimate Useful Life of a Reservoir”, *Proceedings of National Conference on Sustainable Water Resources Management and Impact of Climate Change*, BITS-Pilani Hyderabad Campus, March 5-6, 2010, pp 233-245.
50. **Jothiprakash, V** “Drainage Design Methodology to avoid flooding in an Airport” *Proceedings of National workshop on Coastal Urban Flood Hazards and Management*, Indian Institute of Technology Bombay, Mumbai, 19-20th Feb. 2010, pp 201-204.
51. Alka S. Kote and **Jothiprakash. V** “Multivariate Forecasting of Reservoir Inflow with Artificial Neural Networks”, *Proceedings of National Conference on “Hydraulics, Coastal and Environmental Engineering, HYDRO 2009*, Central Water Power and Research Station (CWPRS) Pune 17-18 Dec 2009, pp 671-678.
52. Garg, V., Shahuraj S More and **Jothiprakash, V** “Reservoir trap efficiency estimation using M5 Model Tree – A case study” *Proceedings of National Conference on “Hydraulics, Coastal and Environmental Engineering, HYDRO 2009*, Central Water Power and Research Station (CWPRS) Pune 17-18 Dec 2009, pp 656-662.
53. Magar R.B. and **V Jothiprakash** “Adaptive Neuro-Fuzzy System Approach for Daily Reservoir Inflow Prediction” *Proceedings of National Conference on “Hydraulics, Coastal and Environmental Engineering, HYDRO 2009*, Central Water Power and Research Station (CWPRS) Pune 17-18 Dec 2009, pp 648-655.
54. Bhosekar V V, **Jothiprakash V**, **P.B. Deolalikar** and **A.R. Chavan** “Application of Numerical Modeling to Spillway Aerators-A Review” *Proceedings of National Conference on “Hydraulics, Coastal and Environmental Engineering, HYDRO 2009*, Central Water Power and Research Station (CWPRS) Pune 17-18 Dec 2009, pp 501-508.
55. Garg, V. and **Jothiprakash, V** “Genetic Programming Approach to Estimate Reservoir sedimentation” *National Symposium on Climate Change and Water Resources in India (CCWRIN)*, NIH, Roorkee, 17th -18th Nov. 2009.
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57. Magar R. B and **V Jothiprakash** “The state of art of rainfall- runoff modeling”, *National conference Zenith 2009*, Father Angel Technical Education Complex, Vashi, Navi Mumbai 30th-31st Oct. 2009.
58. Magar R and **V. Jothiprakash**, “Genetic programming model to establish distributed rainfall-runoff relationship” *Proceedings of the National Conference on Hydraulics, Water Resources and Environment, HYDRO 2008*, MNNIT, Jaipur 15th-16th Dec. 2008, pp 215-224.
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61. **V. Jothiprakash**, T.I. Eldho & M.C. Deo, “Effective designing of an urban drainage system for flood mitigation: a case study in Mumbai”, *Proceedings of the Indian National Conference on Advances in Hydraulic Engineering with Special Emphasis on Model-Prototype conformity (INCAHE)* 6th -7th, Nov. 2008, CWPRS, Pune, pp 267-274.
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64. Magar R and **V. Jothiprakash**, “Lumped data rainfall runoff models using ANFIS for an intermittent river” *Proceedings of the National Conference on Hydraulics and Water Resources, HYDRO 2007*, National Institute of Technology Surat, 21st and 22nd Dec 2007, 647-654.
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67. Bhosekar, V, V., Deolalikar, P.B., and **V. Jothiprakash** “Aerators for deep seated orifice spillways” *Proceedings of the National Conference on Hydraulics and Water Resources, HYDRO 2007*, National Institute of Technology Surat, 21st and 22nd Dec 2007, pp 523-530.
68. Chandramohan P.V., T.I. Eldho and **V. Jothiprakash** “Surge Analysis in Large Lift Irrigation Scheme Through Physical Modeling” *Proceedings of the National Conference on Hydraulics and Water Resources, HYDRO 2007*, National Institute of Technology Surat, 21st and 22nd Dec 2007, pp 513-522.
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72. **Jothiprakash, V.** and Mayank Dobhal. “Probabilistic Forecasting of Reservoir Inflows Using Frequency Analysis: A Case Study” *Proceedings of the National Conference, on Hydraulics and Water Resources, HYDRO-2006*, Bharati Vidya Peeth University, 8th and 9th Dec. 2006, pp 230 – 237.
73. S. Krishnamoorthi and **Jothiprakash V** “Database Management in Water Resources Using GIS with Graphical User Interface”, *Proceedings of the National Conference on geomatics for infrastructural development Anna University, Chennai*, 4th to 6th Jan. 2006.
74. **Jothiprakash V** and Ganesan Shanthi, “Genetic Algorithms for Multi-Reservoir System Optimization”, *Proceedings of the National Conference on HYDRO 2005, with special reference to TSUNAMI*, Siddaganga Institute of Technology, Tumkur, 8th and 9th Dec, 2005, 162-170.

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