

Research Publications in International Conferences (143 Presentations)

1. Binit Kumar and **V. Jothiprakash (2024)** Utilization of Artificial Neural Network Model for the Evaluation of Discharge Coefficient of a Piano Key Weir, 10th International Symposium on Hydraulic Structures, Zurich, Switzerland 17-19 June 2024.
2. Injila Hamid and **V Jothiprakash (2024)** Analyzing the relation between changepoint year, elevation, and land cover over lower Columbia River basin in North America, EGU General Assembly 2024, EGU24-641. Copernicus Meetings, Vienna, Austria, April 23-28, 2024
3. Ramkumar D and **Jothiprakash V**, (2024) Conservation of Navi Mumbai Coastal Creeks Through Regulations Of Wastewater Standards And Development Of Soft Computing Model For Sewage Treatment Plant, WSPA 2024, 4th International Conference Waters in Sensitive and Protected Areas, IWA World water Congress and Exhibition, IWA International Water Association, , Pula, Croatia, 10th -13th, Apr. 2024.
4. **Jothiprakash V** and Ramkumar D, (2024) Deciphering Design of Temple Tank with Rainfall and Runoff investigation on Lord Shiva's Panch Bootha Sthala – Ekambareswarar Temple, Kancheepuram, International Conference on Temples Management: Historical, Functional and Futuristic Perspectives, at Chanakya University, Bengaluru, India, 21st and 22nd, Mar. 2024.
5. **Jothiprakash V** and Ramkumar D, (2024) A Sustainable Approach for Augmenting Rain Water Through Sacred Temple Tanks, 11th International Conference on Indian Knowledge Systems for Achieving Sustainable Development Goals, at School of Management Sciences, Centre for Spiritualism and Human Enrichment, Varanasi, India, 02nd-03rd, Mar. 2024.
6. Poojitha, S. N., **Jothiprakash, V.** (2023). An Intensified Search Metaheuristic: The Krill Herd Algorithm for Optimal Design of Medium-sized Hanoi Water Distribution Network. *In Proceedings of 28th International Conference on Hydraulics, Water Resources, and Coastal Engineering, HYDRO 2023 International*, National Institute of Technology Warangal, Telangana, India, Dec 21-23, 2023. **(Best Paper Award, NIT Warangal, HYDRO-2023)**

7. Yin Yin Htwe, Drissia T K and **V. Jothiprakash** (2023) L-moments Method for Flood Frequency Analysis of Stations in Myanmar and India, *In Proceedings of 28th International Conference on Hydraulics, Water Resources, and Coastal Engineering, HYDRO 2023 International*, National Institute of Technology Warangal, Telangana, India, Dec 21-23, 2023.
8. Poojitha, S. N., **Jothiprakash, V.** (2023). Phased Design of Water Distribution Networks Studying the Environmental Impacts Using a Novel Hybrid Metaheuristic Optimization Technique. In *AGU Fall Meeting Abstracts*, Sanfrancisco, Dec 11-16, 2023, abstract Id. 1425061.
9. Namitha Saji, **V Jothiprakash** and Bellie Sivakumar (2023), Multivariate chaotic analysis of daily runoff series in Savitri River Basin, India, HS01-A013, *20th Annual meeting of the Asia Oceania Geosciences Society (AOGS)*, 30 Jul-04 August 2023
10. Krishna Gunturu Vamsi., **Jothiprakash, V.**, and Sivakumar, B., 2023, Analysis of Evapotranspiration using Complex Networks and Chaos Theory, , *20th Annual meeting of the Asia Oceania Geosciences Society (AOGS)*, 30 Jul-04 August 2023.
11. Namitha E S, **Jothiprakash V**, Sivakumar B, (2023), "Trend analysis of gridded daily rainfall indices in Savitri River basin, India". In *Proceedings of 12th World Congress on Water Resources and Environment (EWRA 2023), Managing Water-Energy-Land-Food under Climatic, Environmental and Social Instability*, Thessaloniki, Greece, June 27 – July 1, 2023.
12. Poojitha, S. N., **Jothiprakash, V.** (2023). Evolutionary, swarm-based, and hybrid metaheuristic algorithms for the optimal design of water distribution network: A comparative study. In *Proceedings of 12th World Congress on Water Resources and Environment (EWRA 2023), Managing Water-Energy-Land-Food under Climatic, Environmental and Social Instability*, Thessaloniki, Greece, June 27 – July 1, 2023, Theme V, pp 191-192.
13. Ramkumar D, **Jothiprakash V**, Prediction of Wastewater Treatment Facilities Influent Flow Using Long Short-Term Memory, *4th International Conference on Waste Management*, Indian Institute of Technology Guwahati, India, May 18-19, 2023
14. Poojitha, S. N., **Jothiprakash, V.** Application of Enhanced Search Technique: Chaos Directed Genetic Algorithm in Optimal Design of Water Distribution Network. EGU General Assembly 2023, EGU23-641. Copernicus Meetings, Vienna, Austria, April 23-28, 2023. <https://doi.org/10.5194/egusphere-egu23-641>

15. Poojitha, S. N., **Jothiprakash, V** (2023). Design of Real-Scale Balerma Irrigation Network Using Variants of Bio-inspired Genetic Algorithm. *In Proceedings of 3rd International Conference on Recent Development in Sustainable Infrastructures: Engineering, Technology & Innovation (ICRDSI-2023)*, Kalinga Institute of Industrial Technology, Bhubaneswar, India, March 3-5, 2023.
16. Ramkumar D, **Jothiprakash V**, Technical Efficiency and Water reuse potential of Sanapda Sewage Treatment Plant, 13th IWA International Conference On Water Reclamation and Reuse, IWA Water Reuse - 2023, The ITC Grand Chola, Chennai, India, January 15-19, 2023.
17. Ramkumar D, **Jothiprakash V**, Tertiary treatment using ultrafiltration in an existing STP for industrial reuse, 13th IWA International Conference On Water Reclamation and Reuse, IWA Water Reuse - 2023, The ITC Grand Chola, Chennai, India, January 15-19, 2023.
18. Krishna, GV., **Jothiprakash, V.**, Sivakumar, B., 2022 Monthly evapotranspiration trends across India using the Hurst exponent, Proceedings of 27th International conference on Hydraulics, Water resources, and Coastal Engineering, HYDRO 2022. December 22-24, 2022, Punjab Engineering College, Chandigarh, India
19. Poojitha, S. N., **Jothiprakash, V.** (2022) Hybrid metaheuristic: A combination of evolutionary algorithm and swarm based technique for optimal design of WDNs. Proceedings of 27th International conference on Hydraulics, Water resources, and Coastal Engineering, HYDRO 2022. December 22-24, 2022, Punjab Engineering College, Chandigarh, India
20. Poojitha, S. N., **Jothiprakash, V.** (2022). A novel Combined Framework of Differential Evolution and Krill Herd Algorithm for Design of Large-scale Water Distribution Network. AGU22. AGU Fall Meeting 2022, 12-16 December 2022, Chicago, Illinois, USA
21. Krishna, GV., **Jothiprakash, V.**, and Sivakumar, B. (2022). Behavioural study of Evapotranspiration time series: Visibility Graph Analysis. AGU22. AGU Fall Meeting 2022, 12-16 December 2022 Chicago USA
22. Namitha Saji, **V Jothiprakash** and Bellie Sivakumar (2022), Morphometric Analysis of the Savitri River Basin, India, AGU22, AGU Fall Meeting 2022, 12-16 December 2022 Chicago USA
23. Akshata Bhandari, **V Jothiprakash**, Namita Elza Saji, Jyoti Sharma, (2022), Geological properties of Savitri river basin, International Geological Union

thematic Conferences at Department of Geography, Central University of Harayana, India during 24th to 25th December 2022

24. Ramkumar D, **Jothiprakash V**, Simulating Influent & Effluent BOD of Wastewater Treatment Facility using Hybrid Time Series Modelling, International Conference on the water for smart, livable cities, IWA World Water Congress & Exhibition - 2022, Bella centre, Copenhagen, Denmark, September 11-15, 2022.
25. Krishna, GV., **Jothiprakash, V.**, and Sivakumar, B. 2022. Prediction of Evapotranspiration using complex networks. 19th Annual meeting of the Asia Oceania Geosciences Society, 01-05 August, 2022
26. Namitha Saji, **V Jothiprakash** and Bellie Sivakumar (2022), Method of Moments for Parameter Estimation in Nash Instantaneous Unit Hydrograph: Case Study of the Savitri River Basin in India, HS23-A019, 19th Annual meeting of the Asia Oceania Geosciences Society, 01-05 August, 2022
27. Poojitha, S. N., **Jothiprakash, V.** (2022). Reliability-Based Hybrid Metaheuristic Optimization Model for the Design of Two Loop Network Under Mechanical Uncertain Scenarios. EGU22-12971. Copernicus Meetings Vienna, Austria, May 2-27, 2022.. <http://dx.doi.org/10.5194/egusphere-egu22-12971>
28. Krishna, GV., **Jothiprakash, V.**, Sivakumar, B. (2022). Prediction of evapotranspiration using a nonlinear local approximation approach. EGU22, DOI: 10.5194/egusphere-egu22-11467
29. Namitha Saji, **V Jothiprakash** and Bellie Sivakumar (2022), Prediction of hourly runoff in the Savitri River basin in India: Use of a local approximation approach, EGU22-4930, European Geosciences Union General Assembly, May 21-29, Vienna, Austria.
30. Preeti Sharma and **V. Jothiprakash**, Performance Analysis of Water Distribution Network Using Demand Driven and Pressure Driven Analysis Under Hydraulic Uncertainty, First IITM International Conference on Circular Economy for Sustainable Water Management (SuWaM 2022), 23-25, March 2022.
31. Namitha E.S., **V. Jothiprakash** and Bellie Sivakumar, Trend Analysis of Hourly Rainfall Indices in Savitri River Basin, India, 26th International Conference on Hydraulics, Water Resources and Coastal Engineering, HYDRO 2021 International at SVNIT, Surat Gujarat, India, 23-25-Dec. 2021.

32. **Jothiprakash V**, Sedimentation Rate Behavior Analysis Using Chaos Theory, 25th International Conference on Hydraulics, Water Resources and Coastal Engineering, HYDRO 2020, National Institute of Technology Rourkela, Odisha, India, March 26-28, 2021
33. Poojitha¹, S.N., and **V. Jothiprakash**, Evolutionary Optimization Techniques for Optimal Design of Water Distribution Networks, 25th International Conference on Hydraulics, Water Resources and Coastal Engineering, HYDRO 2020, National Institute of Technology Rourkela, Odisha, India, March 26-28, 2021 **(Best Paper Award, NIT Rourkela, HYDRO-2020)**
34. **Jothiprakash V and T.K. Drissia**, Regional Flood Frequency Analysis for Ungauged Sites, International Conference on Water and Environment (ICWE-2021), Department of Civil Engineering, Maulana Azad National Institute of Technology, Bhopal, 22-23-March, 2021.
35. **Jothiprakash V**, Reservoir Inflow Prediction Using AI techniques, Russian-Indian Network of Institution of Higher Education (RIN) online symposium on Data Analytics, 6-7th Oct. 2020.
36. Poojitha S.N, and **V. Jothiprakash**, A comparative Study on Genetic Algorithm and Differential Evolution for the Optimal Design of Water Distribution Networks, AGU Fall Meeting, San Francisco, CA, 7-11, Dec. 2020.
37. Namitha Saji, **V. Jothiprakash** and B. Sivakumar, Chaotic Analysis of Hydro-meteorological Variables for Monsoon Season in Savitri River Basin (Abstract No. 744276), AGU Fall Meeting, San Francisco, CA, 7-11, Dec. 2020.
38. Poojitha, S. N., Jothiprakash, V. (2020). Application of Bio-inspired Genetic Algorithm: A Case Study, International Conference on Recent Developments in Sustainable Infrastructure, ICRDSI 2020, Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar, Odisha, India, on Dec 18-21, 2020. **(Best Paper in Sustainability in Water Resources Management, Kalinga Institute of Industrial Technology (KIIT))**
39. Kanchan Sen Sharma, K., & Jothiprakash, V. (2020). Towards Sustainability in resettlement plans, the necessary conditions and their Interplay: A case of Mumbai, International Conference of Urban Regeneration and Sustainability (URS) 5th Edition, University of East London, IEREK, ASTI Springer
40. Kanchan Sen Sharma, K., and **Jothiprakash, V..** Defining Sustainable Resettlement Policies for Project Affected Women in India through Feedback of Media Review, *Italy*. 2020

41. Kanchan Sen Sharma K, **Jothiprakash V**, A Descriptive Analysis of Rehabilitation & Resettlement Policies in India through Policy Feedback Approach and Metaphors of Policy Process Approach, *International Conference of Urban Science and Engineering 2020*, IIT Bombay, on Feb 28-29, 2020, pp 17.
42. 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.
43. 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. **(Best Paper in Climate Change and Extreme Events, Osmania University, HYDRO-2019)**
44. **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
45. 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.
46. **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
47. **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

48. 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.
49. 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.
50. 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. **(Best Oral Presentation, HYDRO-2018, NIT Patna)**
51. 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.
52. Martina Zelenakova, Pavol Purcz, **V. Jothiprakash**, Helena Hlavatá, Precipitation Time Series Trend Analysis in Kosice, Slovakia, AOGS 2018, 15th Annual Meeting, Asia Oceania Geosciences Society, 3-8, Jun 2018 Honolulu, Hawaii.
53. **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.
54. 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.

55. 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. (**ISH G.M. Nawathe Puraskar-2018, Best paper Award**)
56. 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.
57. 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*.
58. 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.
59. 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.
60. 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.
61. **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
62. 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.

63. 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.
64. 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.
65. 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.
66. 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.
67. 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.
68. 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
69. 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.
70. 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.

71. 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.
72. 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, December, 2015.
73. Zope, P.E., T.I. Eldho and **V. Jothiprakash**, Flood Plain Management for Catchment in Mumbai Using an Integrated Modeling approach, *International Seminar on water and Waste Water*, 10-12, October 2015, IIT Bombay.
74. 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.
75. Priyank J. Sharma, P. L. Patel and **V. Jothiprakash**, A Simulation – Optimization Approach in Development of Operation Policy for a Multipurpose Reservoir” IAHR 2015, 36th IAHR World Congress, 28th-3 July 2015, The Netherlands.
76. **Jothiprakash, V** and Krishna Dhanya, Time Series Behavioural Analysis of Ocean Wind Speed -A Chaotic Approach, EWRA 2015, 9th World Congress, Water Resources Management in a Changing World: Challenges and Opportunities, Conference, Book of Abstract, Page 69, June 10-13, 2015, Turkey.
77. 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).
78. 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)

79. 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 Research, Hanoi, Vietnam, 21 -24 September 2014.
80. Bhosekar V.V. and **Jothiprakash V**, Philosophy of aerator design on orifice spillway, Challenges and Barriers in Hydropower Development, CBIP Conference, Shimla, 18-19, Sep. 2014.
81. 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
82. Vignesh, R, **V. Jothiprakash**, B. Sivakumar, Classification of Catchments Using Spectral and Dimension Concepts, *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 1380-1385
83. Arunkumar, R. and **Jothiprakash, V.**, Deriving Optimal Crop Planning for the Command Area of Dimbhe Reservoir– A Fuzzy Multi-Objective Approach, *International Conference on Advances in Water Resources Development and Management (AWRDM-2013)*, Oct. 23-27, 2013, Centre of Advanced Study, Department of Geology, Panjab University, Chandigarh, India.
84. 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.
85. 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.
86. **Jothiprakash, V**, "Time Series Modeling Using Soft Computing Techniques" *International Conference on Civil Engineering and Infrastructural Issues in Emerging Economies ICCIEE 2013*, SASTRA, Thanjavur, 27-28 Feb. 2013.
87. Magar R.B. and **V. Jothiprakash** "Artificial Intelligent techniques in Rainfall-runoff process" *5th International conference on water resources and Arid Environments (ICWRAE5)*, Riyadh, Saudi Arabia, 7-9 January, 2013, pp 55-60.

88. Arunkumar, R. and **Jothiprakash, V.**, “Improving the performance of the optimization technique using chaotic algorithm”. *2nd International Conference on Soft Computing for Problem Solving (SocPros 2012)* at The Institute of Engineering and Technology, JK Lakshmipat University, Jaipur (India) during December 28-30, 2012.
89. Zope P., T.I. Eldho and **V. Jothiprakash**, “Spatio – temporal analysis of land use change in Poisar river basin, Mumbai, India: using GIS and remote sensing techniques, *5th International Congress of Environmental Research*, Nov. 22-24, 2012, Kuala Terengganu, Malaysia.
90. Rao, C.J., **Jothiprakash, V.**, and T.I. Eldho, Finite element method (fem) for pipe network analysis” *5th International Congress of Environmental Research*, Nov. 22-24, 2012, Kuala Terengganu, Malaysia.
91. Arunkumar R and **V. Jothiprakash**, “Optimal Reservoir Operation for Hydropower Generation Using Different Evolution Algorithm”, *Second International Conference on Water Resources (ICWR-2012)*, 5-6, Nov. 2012, Malaysia.
92. 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.
93. Zope P., T.I. Eldho and **V. Jothiprakash** “Effect of Urbanization on the Mithi River Basin in Mumbai: A Case study”, *2012 International SWAT Conference*, 18-20 July 2012, New Delhi, India.
94. **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.
95. 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.
96. **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.

97. Vignesh, R, **V. Jothiprakash**, and B. Sivakumar “Forecasting Groundwater Level Fluctuations using Genetic Programming” *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.
98. Vignesh, R, **V. Jothiprakash**, B. Sivakumar, and V. P. Singh, Study of Streamflow Dynamics in the Western United States, *AOGS 2011*, 08-12. Aug. 2011, Taipei
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