

1. PROFESSIONAL ACTIVITIES

1.1. Associate Editor / Editorial Member

1. Associate Editor, ISH Journal of Hydraulic Engineering, Taylor & Francis, UK

1.2. Books and Books Chapter Reviewer

1. Engineering Hydrology, Second Edition, Subramaniya, PHI,
2. ASCE Book, Integrated Management of water supply for a large city, Mohankumar MS. Usha Manohar and Anjana GR
3. Hand Book of Applied Hydrology-Chapter 30, Nonlinear Dynamics and Chaos, Bellie Sivakumar.

1.3. Journal Reviewer

Reviewed number of manuscripts (papers) for the following referred national and international journals

1. Advances in Water Resources
2. Agricultural Water Management
3. American Water Works Association
4. Applied Mathematical Modelling
5. Applied Soft Computing
6. Applied Water Science
7. Artificial Intelligence Review
8. ASCE Journal of Hydraulic Engineering
9. ASCE Journal of Hydrologic Engineering
10. ASCE Journal of Irrigation and Drainage Engineering
11. ASCE Journal of Water Resources Planning and Management
12. Canadian Journal of Civil Engineering
13. Civil Engineering and Environmental Systems
14. Current Science
15. Earth System Science
16. Engineering Applications of Artificial Intelligence
17. Engineering Applications of Computational Fluid Mechanics
18. Environmental Engineering Science
19. Environmental Modelling & Software
20. Experimental Thermal and Fluid Science
21. Geoscience Letters-AOGS Journal
22. Hydrological Processes
23. Hydrological Sciences Journal
24. Hydrology Earth Science Systems
25. Hydrology Research

26. IAHR Journal of Hydraulic Environmental Systems
27. Indian Geophysical Union
28. Indian Water Resources Society (IWRS) Journal
29. International Journal of Earth Sciences & Engineering
30. International Journal of Agricultural Science and Technology
31. International Journal of Earth Sciences and Engineering
32. International Journal of Environmental Informatics, (International Society for Environmental Informatics) Canada
33. International Journal of Environmental Management
34. International Journal of Hydrological Science and Technology
35. International Journal of Sediment Research
36. International Journal of Spatial Hydrology
37. International Journal of Water
38. Journal of Earth System Science
39. Journal of Environmental Management
40. Journal of Flood Engineering
41. Journal of Hydro-environment Research
42. Journal of Hydrology
43. Journal of Indian Society of Hydraulics-ISH
44. Journal of Indian Water Resources Society
45. Journal of Institution of Engineers (India) Series A
46. Journal of Stochastic Environmental Research and Risk Assessment.
47. Journal of the Indian Society of Remote Sensing, ISRS, India.
48. Journal of Water and Climate
49. Journal of Water Resources Environmental Engineering
50. KSCE- Korean Society of Civil Engineering Journal
51. Mine Water Engineering
52. Natural Hazards
53. Natural Resource Modeling
54. Neural Computing and Applications
55. Open Hydrology
56. Resources, Conservation and Recycling
57. Sadhana
58. Soft Computing
59. Water Research
60. Water Resources Management (Springer Publications)
61. Water Resources Research
62. Water Science and Technology: Water Supply

1.4. Outside PhD Thesis Reviewer

1. Served as an External Examiner for Ph.D. thesis, “**Impact of climate change on surface water availability of a tropical coastal river basin-Chennai** ” submitted by Balambal Usha to Faculty of Civil Engineering, Anna University Chennai, India, May 2017. (Viva held on 12th Dec. 2017).

2. Served as an External Examiner for Ph.D. thesis, "**An investigation of soil aquifer treatment of secondary treated wastewater**" submitted by Selvakumar to Faculty of Civil Engineering, Anna University Chennai, India, April 2017. (Viva held on 11th Dec. 2017).
3. Served as an External Examiner for Ph.D. thesis, "**Estimation of Daily Actual** Served as an External Examiner for Ph.D. thesis, "**Coastal Erosion Modeling Using GIS&Remotely Sensed Data for Andhra Pradesh**" submitted by Hari Prasad to Research and Development Cell, Jawaharlal Nehru Technological University, Hyderabad, India, May 2017. (Viva held on 30th Nov. 2017).
4. **Evapotranspiration using Microwave and optical vegetation indices for clear and cloudy sky conditions**" submitted by Ms. Shwetha Hassan Rangaswamy, IISc Bangalore (Viva held on 25th Sep. 2017).
5. Served as an External Examiner for Ph.D. thesis, "**Integrated and Innovative Modelling Approaches for the Estimation and Prediction of Rainfall-Runoff Process** " submitted by Mr. V. G. Sayagavi, Mumbai University, Mumbai (Viva held on July 2017).
6. Served as an External Examiner for Ph.D. thesis, "**Optimization of Hedging Rules for Operation of Hydro-Power Reservoir**" submitted by K. Sasireka to Shanmuga Arts, Science, Technology & Research Academy, SASTRA University, Thanjavur, India, January 2017. (Viva held on 19th June, 2017)
7. Served as an External Examiner for Ph.D. thesis, "**Optimal Sensor Locations in Water Distribution Network Using Genetic Algorithm for Regular Water Quality Monitoring and Contamination Detection Including Application to Pressure Deficient Networks**" submitted by Ms. Shweta Rathi to Department of Civil Engineering, Viswswaraiya National Institute of Technology, Nagpur, Maharashtra, India, August, 2016.
8. Served as an External Examiner for Ph.D. thesis, "**Studies on the Dynamics of Liquid Sloshing in Sotage Tanks**" submitted by Venkata Satyamu Sanapala to Department of Applied Mechanics, Indian Institute of Technology Madras, Chennai, , India, (Viva held on 16th June 2017)
9. Served as an External Examiner for Ph.D. thesis, "**Assessment of hydrological impacts of land cover changes and climate variability in the GEBA catchment, Ethiopia** " submitted by Gebremedhin Kiros Hailu to Department of Applied Mechanics and Hydraulics, National Institute of Technology, Surathkal, Karnataka, India, August, 2016. (Viva held on 28th Oct, 2016)
10. Served as an External Examiner for Ph.D. thesis, "**Modeling Pan Evaporation by Hybrid Wavelet Transform**" submitted by Leeladhar Pammer to Department of Applied Mechanics and Hydraulics, National Institute of Technology, Surathkal, Karnataka, India, August, 2016.
11. Served as an External Examiner for Ph.D. thesis, "**Daily Streamflow Estimation Using Remote Sensing Data**" submitted by Sisiri Danaka Nilantha Meepegalkatiya Gamage to Department of Civil Engineering, Victoria University Melbourne, Australia, April 2015.

12. Served as an External Examiner for Ph.D. thesis, **“Assessment of Nutrient Load Contribution from the Catchment by Using Model for Management Support System”** submitted by Aruna S to Faculty of Civil Engineering, Anna University Chennai, India, January 2015. (Viva not attended due to GATE exam duty)
13. Served as an External Examiner for Ph.D. thesis, **“Watershed Modeling for Sedimentation and its Impacts in Krishnagiri Reservoir”** submitted by E. Arun Babu to Faculty of Civil Engineering, Anna University Chennai, India, March 2015. (Viva held on 9th Sep. 2015)
14. Served as an External Examiner for Ph.D. thesis, **“Stream flow modelling technique for ungauged catchments and operation policy for vented dams in series”** submitted by Chandre Gowda C to Department of Applied Mechanics and Hydraulics, National Institute of Technology, Surathkal, Karnataka, India, December, 2014. (Viva not attended due to GATE exam duty)
15. Served as an External Examiner for Ph.D. thesis, **“Data Driven Approach for Daily Pan Evaporation Modeling”** submitted by Narahari Dattatraya Chaudhari to Research Centre, Sinhgad College of Engineering, , Pune, India, Feb. 2014. (Viva held on 24th Sep. 2014)
16. Served as an External Examiner for Ph.D. thesis, **“Circulation and Environmental Flow Studies in a Mangrove Ecosystem ”** submitted by R. Sathyanathan to Faculty of Civil Engineering, SRM University Kattankulathur, India, April 2014. (Viva held on 15th Sep. 2014)
17. Served as an External Examiner for Ph.D. thesis, **“Managed Aquifer Recharge: An Integrated Approach for Assessing the Impact of a Check dam”** submitted by Parimala Renganayaki S to Faculty of Civil Engineering, Anna University Chennai, India, March 2014. (Viva held on 4th Aug. 2014)
18. Served as an External Examiner for Ph.D. thesis, **“Improving Irrigation System Performance in Lower Bhavani Project”** submitted by R. Rajkumar to Faculty of Civil Engineering, Anna University Chennai, India, December 2013. (Viva not attended due to GATE exam duty)
19. Served as an External Examiner for Ph.D. thesis, **“Investigation of Issues in Modeling of Rainfall-Runoff using Soft Computing methods”** submitted by Ravikumar Ganti to Department of Civil Engineering, Indian Institute of Technology Kanpur, India, April 2013 (Viva held on 25th Apr. 2014)
20. Served as an External Examiner for Ph.D. thesis, **“Visual Simulation and Optimisation Model for Water Release from Vaigai Reservoir System”** submitted by R. Balamurugan to Faculty of Civil Engineering, Anna University Chennai, India, December 2012. (Viva held on 7th Jan. 2014)
21. Served as an External Examiner for Ph.D. thesis, **“Groundwater level forecasting using radial basis function and generalized regression neural networks”** submitted by Sreenivasulu D to Department of Civil Engineering, National Institute of Technology, Surathkal, Karnataka, India, October, 2012. (Viva held on 18th Feb. 2013)

22. Served as an External Examiner for Ph.D. thesis, “**Development of 1D – 2D Integrated Hydrodynamic Model for River Flood Prediction in Coastal Urban Flood Plain**” submitted by Prafulkumar V. Timbadiya to Department of Civil Engineering, S.V. National Institute of Technology, Surat, India, July 2012.
23. Served as an External Examiner for Ph.D. thesis, “**Groundwater Model to Predict the Impact due to Textile Units at Pali**” submitted by Vijai Kumar Singhal to Department of Civil Engineering, Malaviya National Institute of Technology, Jaipur, India, July 2012.
24. Served as an External Examiner for Ph.D. thesis, “**Data Mining Techniques for Weather Prediction and Atmospheric Sciences**” submitted by S. Meganathan to Shanmuga Arts, Science, Technology & Research Academy, SASTRA University, Thanjavur, India, September 2012. (Viva held on 2nd Sep. 2013)
25. Served as an External Examiner for Ph.D. thesis, “**Optimization for Maintenance of Water Distribution System using Stochastic Search Algorithms**” submitted by Pratheeba Paul to Faculty of Civil Engineering, Anna University Chennai, India, June 2011.
26. Served as an External Examiner for Ph.D. thesis, “**Impacts of Eutrophication in Krishnagiri Reservoir: Sedimentation, Water Quality and Nutrients**” submitted by Mohammad Sedigh Sabeti to Faculty of Civil Engineering, Anna University Chennai, India, January 2011.
27. Served as an External Examiner for Ph.D. thesis, “**Simulation Studies, Command Area Development and Design of Hydraulic Structures of Proposed Srisailem Left bank Canal A.P**” submitted by Lilly Padmaja Joshi Matcha to Research and Development Cell, Jawaharlal Nehru Technological University, Hyderabad, India, March, 2010.
28. Served as an External Examiner for Ph.D. thesis, “**Soft Computing Models for Runoff and Irrigation Returnflow Estimation**” submitted by D. P. Vijayalakshmi to Environmental and Water Resources Engineering Division, Department of Civil Engineering, Indian Institute of Technology Madras, India, June 2009.
29. Served as an External Examiner for Ph.D. thesis, “**Impact of Tank Rehabilitation: An Analytical Study On Livelihood Options In Peri-Urban And Rural Tanks**” submitted by B. Anuradha to Faculty of Civil Engineering, Anna University Chennai, India, June 2009.
30. Served as an External Examiner for Ph.D. thesis, “**GIS based Groundwater Modelling Study to Assess the effect of Artificial Recharge in Kodaganar Sub-Watershed**” submitted by M.C. Sashikkumar to Faculty of Civil Engineering, Anna University Chennai, India, December 2006.
31. Served as an External Examiner for PhD thesis, “**Development of Operational Rules for Serial and Parallel Reservoir Systems Using Fuzzy Logic Approach**” submitted by M. Anjaneya Prasad to Environmental and Water Resources Engineering Division, Department of Civil Engineering, Indian Institute of Technology Madras, India, June 2006.

1.5. Internal PhD Thesis Reviewer

1. Served as an Internal Examiner for Ph.D. thesis, “**Optimal Reservoir Operation for Hydropower Production Using Particle Swarm Optimization and Genetic Programming**” submitted by Mr. Bholu NS Ghimire, Department of Civil Engineering, Indian Institute of Technology Bombay, India, 2014
2. Served as an Internal Examiner for Ph.D. thesis, “**WATMIS: an integrated decision support system for watershed management**” submitted by Ms. Prajakta Dadasaheb Aher to Centre of Studies in Resources Engineering, Indian Institute of Technology Bombay, India, 2013.
3. Served as an Internal Examiner for Ph.D. thesis, “**Multi Reservoir System Optimization Using Genetic Algorithm for Water Resources Management**” submitted by Mr. Avinash S Garudkar to Department of Civil Engineering, Indian Institute of Technology Bombay, India, 2011.
4. Served as an Internal Examiner for Ph.D. thesis, “**Basin Scale Streamflow Forecasting Using Hydro-Meteorological and Hydro-climatological Inputs**” submitted by Mr. Kashid Satishkumar Shahajirao to Department of Civil Engineering, Indian Institute of Technology Bombay, India, 2010.
5. Served as an Internal Examiner for Ph.D. thesis, “**Soil Erosion and Sediment Yield Modeling of Watershed Using Finite Element Method, Geographical Information System and Remotely Sensed Data**” submitted by Mr. Gopal Naik to Department of Civil Engineering, Indian Institute of Technology Bombay, India, 2009.
6. Served as an Internal Examiner for Ph.D. thesis, “**Stream Aquifer interactions with Radial Collector Wells Using AEM, GA & PSO Based Models**” submitted by Mr. H.M. Patel to Department of Civil Engineering, Indian Institute of Technology Bombay, India, 2008.
7. Served as an Internal Examiner for Ph.D. thesis, “**Modifications to Soil Conservation Service Curve Number Technique for Rainfall-Runoff Modeling**” submitted by Mr. Ramkumar Sahoo to Department of Civil Engineering, Indian Institute of Technology Bombay, India, 2007.
8. Served as an Internal Examiner for Ph.D. thesis, “**Distributed Rainfall-Runoff Modeling of Watershed Using FEM, Remote Sensing & GIS**” submitted by Mr. Venkata Reddy to Department of Civil Engineering, Indian Institute of Technology Bombay, India, 2007.
9. Served as an Internal Examiner for Ph.D. thesis, “**Long Term Hydrologic Simulation Using Modified SCS-CN & Variable Source Area Based Models**” submitted by Mrs. Geetha K to Department of Civil Engineering, Indian Institute of Technology Bombay, India, 2007..

1.6. Outside MS Thesis Reviewer

1. Served as External Examiner for M.S thesis, "**Predictability of Non-stationary Time Series Using Wavelet and Empirical Mode Decomposition Based ARMA Models**" submitted by Karthikeyan Lanka to Department of Civil Engineering, Indian Institute of Science Bangalore, India, July 2013.
2. Served as External Examiner for M.S thesis, "**GIS Based Morphometric Analysis of a Microwatershed at Aaraganadhi Basin Tamilnadu**" submitted by Ms. P. Yogeswari to Environmental and Water Resources Engineering Division, Department of Civil Engineering, Indian Institute of Technology Madras, India, Feb. 2010.