

Publications of Prof. Raj Mohan Singh, Civil Engg. Deptt.

Journal Papers

1. Yadav A., Singh R. M., Singh, U. and Singh S.K. "Influence of River Bridge on River Morphology: A Case study of Transboundary Ghaghara River". *Natl. Acad. Sci. Lett.* (2026). <https://doi.org/10.1007/s40009-025-01913-x>
2. Kumar P., Singh R. M. and Yadav A. (2025), "Groundwater Simulation and Recharge Impact on Availability in the Yamuna-Krishni Interfluve Region". *Current Science*. (Accepted, 2026)
3. Singh S. K., Singh U, Garg A, Yadav A and Singh R. M. "Land Area Reclamation & Expansion in Mahakumbh-2025, India: A Case Study". *International journal of Environmental sciences*, ISSN:2229-7359, Vol 11 No.06, p.p.1706-1715, (2025). <https://doi.org/10.64252/x53nzw90>
4. Yadav A. and Singh R. M. "Presence and water availability of Jagdalpur urban area in Indravati River basin analyzed by LULC densities and ArcSWAT model". *Urban Water Journal*, 1-15 (2025). <https://doi.org/10.1080/1573062X.2025.2519098>
5. Yadav, A., & Singh, R. M. Inflow Assessment Using Hydrologic and GIS Techniques of Macpherson Lake Watershed in Prayagraj, India. *National Academy Science Letters*, 48(5), 595-599, (2025).
6. Meena, Ram Raj, et al. "Intensification of fluoride removal using electrocoagulation reactor with rotating fins and rings electrodes (Aluminium and Iron) in different configurations." *Chemical Engineering and Processing-Process Intensification* (2025): 110463. doi.org/10.1016/j.cep.2025.110463
7. Yadav, A., Singh, R.M. (2025). "Assessing climate models to forecast future climate and agricultural water demand in the Indravati River Basin". *Model. Earth Syst. Environ.* 11, 160, page 1-30. <https://doi.org/10.1007/s40808-025-02347-6> [06 March 2025]
8. Yadav, A., Singh, R.M. (2025). The Role of Channel Modification in Flood Mitigation: A Study Using HEC-RAS. *Water Resour Manage* (2025), 1-15. (17 January, 2025). <https://doi.org/10.1007/s11269-025-04094-w>
9. Yadav, A., Singh, R.M. Spatio-Temporal Analysis and Prediction of Land Use and Land Cover in Jagdalpur Sub-Division of Bastar District in State of Chhattisgarh, India from 2012 to 2037. *J. Inst. Eng. India Ser. A* (2024) (16 Oct. 2024). <https://doi.org/10.1007/s40030-024-00849-7>
10. Meena, R.R., Singh, R.M., Soni, P. , Kumar, R. , Kumar, S. Fluoride removal using a rotating anode electro-coagulation reactor: Parametric optimization using response surface methodology, isotherms and kinetic studies, economic analysis and sludge characterization, *Journal of Environmental Management* (Elsevier), *Volume 370*, (2024). (November 2024), 122600, 1-13. <https://doi.org/10.1016/j.jenvman.2024.122600>
11. Yadav, A., Singh, R.M. Inflow Assessment Using Hydrologic and GIS Techniques of Macpherson Lake Watershed in Prayagraj, India. *Natl. Acad. Sci. Lett.* (2024); 1-5, (17 Oct. 2024) <https://doi.org/10.1007/s40009-024-01525-x>
12. Yadav, A., Singh, R.M., Pandey, M.K. et al. Hydrodynamic modelling of river training works for protection of group of villages on the left bank of Ramganga River: a case study. *Nat*

Hazards **120**, 14889–14904 (2024). (31 August 2024). <https://doi.org/10.1007/s11069-024-06888-4>

13. Yadav, A., Singh, R.M., Pandey, M.K. *et al.* Hydrodynamic modelling of river training works for protection of group of villages on the left bank of Ramganga River: a case study. *Nat Hazards* **120**, 14889–14904 (2024). (31 August 2024). <https://doi.org/10.1007/s11069-024-06888-4>
14. Singh, P., Mahor, V., & Singh, R. M. (2024). A Novel Approach to Pollution Source Identification in Groundwater Using Hybrid Ensemble of Wavelet Neural Network (WNN) and ARIMA. *Environmental Forensics*, (2024) (Taylor & Francis), 1–13. Published online: 01 Apr 2024. doi:10.1080/15275922.2024.2330027
15. Yadav, A., Singh, R.M. Spatio-temporal Estimation of Evapotranspiration and Runoff in Sub-Watersheds of a Basin Using ArcSWAT. *Natl. Acad. Sci. Lett.* **47**, 649–653 (2024) (9 Feb 2024). <https://doi.org/10.1007/s40009-024-01395-3>
16. Singh, R. M. (2024). Discussion of “Open-Channel Hydrodynamic Numerical Simulation of Topographically Uncharted River Based on Observational Data-Driven Method” by Guhan Li; Xiaohui Lei; Zhao Zhang; Lingzhong Kong; Jie Zhu; Ke Xu; Maomiao Huang; and Hao Wang. *J. Water Resour. Plann. Manage. (ASCE) Journal of Water Resources Planning and Management (ASCE)*, 150 (12), [June 26, 2024) (<https://doi.org/10.1061/JWRMD5.WRENG-6649>.)
17. Kumar, P., Shukla S. P., Behera S. N. and Singh, R.M. (2022). A GIS-based route optimization approach for Municipal solid waste management. *Indian Journal of Environmental Protection (IJEP)* 42(13): 1616-1623: Vol. 42 Issue. 13 (Conference October 20-21,2022)
18. Shilpi, Singh, R.M. (2022) Assessment and prediction of LULCC dynamics in a part of Indo-Gangetic Alluvial Plain (IGAP) using geospatial techniques on multi-temporal Landsat imageries. *Arab J Geosci* **15**, 1076 (1-19). <https://doi.org/10.1007/s12517-022-09892-9> [May 28, 2022].
19. Singh, R. M. (2021). Discussion of “Resolving Conflicts between Irrigation Agriculture and Ecohydrology Using Many-Objective Robust Decision Making” by Yu Li and Wolfgang Kinzelbach, *Journal of Water Resources Planning and Management*, ASCE (American Society of Civil Engineers), 147(7), May 2021 (online published first). [May 14, 2021]
20. Singh, R. M. (2021). Discussion of “Multiobjective Optimization of SensorPlacement for Precipitation Station Monitoring Network Design” by Ke Wang, Jia Yang, Yuling Peng, Qianqian Wu, and Chuli Hu; ASCE (American Society of Civil Engineers), *Journal of Hydrologic Engineering* 26(7):07021005-1 (online published first) [May 12, 2021]
21. Prasad, A., Singh, R.M. & Duggal, S.K. (2021). Optimal Design of Barrage Profile on Anisotropic Soil Using Multi-Objective Optimization Approach. *Water Resour Manage* (Springer), 35, 2433-2448 [<https://doi.org/10.1007/s11269-021-02839-x>] [May 12, 2021]
22. Singh, R.M. and Shukla, P. (2020). Drought Characterization Using Drought Indices and El Niño-Effects. *Natl. Acad. Sci. Lett.* (Springer), 43(4):339–

342 <https://doi.org/10.1007/s40009-019-00870-6>).[ISSN 0250-541X, Published online First, 2 January, 2020] [I.F. 0.4. (2020)]

23. Singh, P. and Singh, R.M. (2019). Identification of pollution sources using artificial neural network (ANN) and multilevel breakthrough curve (BTC) characterization. *Environmental Forensics* (Taylor& Francis), 20(3); 219-227 <https://doi.org/10.1080/15275922.2019.1629548> (Published online: 12 Jul 2019).

24. Singh, Vinai, Singh, R.M. and Rawal, N. R. (2019). Municipal Solid Waste Management using Multiobjective Optimization with Uncertain Parameters, *J. Hazard. Toxic Radioact. Waste*, 23(4): 04019020-1 to 04019020-12 © ASCE, ISSN 2153-5493. Published online on July 31, 2019.

25. Srivastava, P. and Singh, R.M. (2017). Agricultural Land Allocation for Crop Planning in a Canal Command Area using Fuzzy Multi-objective Goal Programming, *Journal of Irrigation and Drainage Engineering*, 143(6): 040170071-040170079 (DOI:10.1061/(ASCE)IR.1943-4774.0001175).

26. Srivastava, P.K. and Singh, R.M. (2017). Groundwater assessment in a canal command area for sustainable irrigation in a part of Indo- Gangatic alluvium plain. CURRENT SCIENCE, VOL. 112(3), 478-489.

27. Singh, R.M. and Shukla, P. (2016). Groundwater system simulation and management using Visual MODFLOW and Arc SWAT. *Journal of Water Resource and Hydraulic Engineering*, Vol. 5 (1), 29-35. [DOI: 10.5963/JWRHE0501003]

28. Srivastava, P.K. and Singh, R.M. (2016). GIS based integrated modelling framework for agricultural canal system simulation and management in Indo-Gangetic plains of India. *Agricultural Water Management*, 163, Issue 1, January 2016, 37–47 (Elsevier). [Volume 163, 1 January 2016, Pages 37-47]

29. Srivastava, D. and Singh, R.M. (2015). Groundwater system modeling for simultaneous identification of pollution sources and parameters with uncertainty characterization. *Water Resour Manage.*, 29, issue 13, October 2015, 4607–4627 DOI 10.1007/s11269-015-1078-8

30. Srivastava, P. and Singh, R.M. (2015). Optimization of cropping pattern in a canal command area using fuzzy programming approach. *Water Resour Manage.*, 29, issue 12, September 2015, 4481–4500, DOI 10.1007/s11269-015-1071-2

31. Shukla, P. and Singh, R.M. (2015). Groundwater flow modeling in a part of Ganga-Yamuna Interfluve region. *Climate Change*, 1(4), 476-482. [ISSN 2394-8558 EISSN 2394-8566].

32. Mishra, S. and. Singh, R.M. (2015). Artificial intelligence techniques used for stream flow modelling in river system. *Discovery*, 41(189), 116-122, [ISSN 2278 – 5469 EISSN 2278 – 5450]

33. Singh, R.M. and Duggal, S.K. (2015). Optimal design of hydraulic structures with hybrid differential evolution multiple particle swarm optimization. *Canadian Journal of Civil Engineering*, 2015, 42(5): 303-310, DOI: 10.1139/cjce20140441.

34. Srivastava, P. and Singh, R.M. (2014). Multi Objective Optimization off Cropping Pattern In A Canal Command Area, *International Journal of Engineering Research*, Issue Special3 (Volume 3), [ISSN: 2319-6890](online),2347-5013(print)], 247-252.

35. Shilpi and Singh, R.M. (2014). Land Cover Classification By LS-SVM With Landsat Satellite Imagery *International Journal of Engineering Research*, Issue Special3 (Volume 3), [ISSN: 2319-6890](online),2347-5013(print)], 230-233.

36. Srivastava, D. and Singh, R.M. (2014). Breakthrough Curves Characterization and Identification of Unknown Pollution Source in Groundwater System Using ANN. *Environmental Forensics* (Taylor& Francis), 15(2), 175-189.

(DOI: [10.1080/15275922.2014.890142](https://doi.org/10.1080/15275922.2014.890142))

37. Singh, R.M. (2013). Uncertainty Characterization in the Design of Flow Diversion Structures Profiles Using Genetic Algorithm and Fuzzy Logic. *Journal of Irrigation and Drainage Engineering*, ASCE, 139(2), 145-57.
38. Singh, R.M. (2011). Design of barrages with Genetic Algorithm based embedded simulation optimization approach. *Water Resour. Manage.* (Springer), (DOI 10.1007/s11269-010-9706-9), 25 (2), 409-429.
39. Singh, R.M. (2011). Wavelet-ANN model for diffuse pollution prediction in streams, ISH Journal of Hydraulic Engineering, ISSN 0971-5010, Volume 17, No 3, SP. October 2011, pp 1-11. (This publication has been awarded G.M. NAWATHE BEST PAPER PRIZE for the year 2010, by The Indian Society for Hydraulics, Pune)
40. Singh, R.M. (2011). Design of Hydraulic Structures Profiles for Water and Power under Uncertain Seepage Head. *IJEE (International Journal of Energy Engineering)* (ISSN: 2225-6563) Vol.1 No.1 2011 PP.49-55.
41. Singh, R. M. and Rahul, A.I. (2011). Pollutant Intrusion Modeling in Water Distribution Networks Using Artificial Neural Networks. *Journal of Environmental Science and Engineering*, ISSN036-827 X, 53 (3), 236 - 245.
42. Srivastava, D. and Singh, R.M. (2011). Estimation of nitrate pollution in groundwater using fuzzy rule based system" *Hydrology Journal* , ISSN:0971-569X, IAH, Volume 34, No. 3&4, 122-34.
43. Rawal, N. R; Singh, R.M. and Vaishya, R.C. (2011). Optimal Management Methodology for Solid Wastes in Urban Areas. ASCE, *Practice Periodical of Hazardous, Toxic, and Radioactive Waste Management (ASCE)*, 16 (1), pp 26-38.
44. Rawal, N. R; Singh, R.M. and Vaishya, R.C. (2011). Waste Characterisation and Route Optimization for Solid Wastes in Urban Areas. *International Journal of Earth Sciences and Engineering*, ISSN 0974-5904, Volume 04, No 06 SPL, October 2011, pp. 438-442.
45. Singh, R. M. (2010). Discussion of Pollution Source Identification of Accidental Contamination in Water Distribution Networks by Cristiana Di Cristo and Angelo Leopardi. *Journal of Water Resources Planning and Management*, ASCE (American Society of Civil Engineers), 136 (2), 292-294.
46. Singh, R. M. (2010). Discussion of Identifying Sets of Key Nodes for Placing Sensors in Dynamic Water Distribution Networks by Jianhua Xu; Paul S. Fischbeck; Mitchell J. Small; Jeanne M. VanBriesen; and Elizabeth Casman, *Journal of Water Resources Planning and Management*, ASCE (American Society of Civil Engineers), 136 (2), 294-296.
47. Singh, R. M. (2008). "Fuzzy Rule Based Estimation of Agricultural Diffuse Pollution Concentration in Streams." *Journal of Environmental Science and Engineering*(ISSN036-827 X), 50 (2), 147-152.
48. Singh, R. M., and Datta, B. (2007). "Artificial Neural Network Modeling for Identification of Unknown Pollution Sources in Groundwater with Partially Missing Concentration Observation Data." *Water Resources Management*(Springer), 21 (3), 557-572 (DOI: 10.1007/s11269-006-9029-z)
49. Singh, R. M., and Datta, B. (2006). "Identification of Unknown Groundwater Pollution Sources Using Genetic Algorithm based Linked Simulation Optimization Approach." *Journal of Hydrologic Engineering*, ASCE, March-April,11(2), 101-109, 2006.

50. Singh, R. M., and Datta, B. (2004). "Groundwater Pollution Sources Identification and Simultaneous Parameter Estimation Using Pattern Matching by Artificial Neural Network." *Environmental Forensics* (Taylor& Francis), 5(3), 143-153.
51. Singh, R. M., Datta, B., and Jain, A. (2004). "Identification of Unknown Groundwater Pollution Sources Using Artificial Neural Network." *Journal of Water Resources Planning and Management*, ASCE, 130(6), 506-514.

Books and Book Chapters

Books Edited

#1 Environmental Processes and Management, Tools and Practices for Groundwater, *Springer, Water Science and Technology Library, (Springer) 2023*, Volume 120, <https://doi.org/10.1007/978-3-031-20208-7>

Editors: Prabhakar Shukla, Prachi Singh and Raj Mohan Singh

#2 Environmental Processes and Management, Tools and Practices, Water Science and Technology Library, Volume 91, Springer Nature 2020, [springer.com](https://www.springer.com) ISBN 978-3-030-38151-6

Editors: Raj Mohan Singh, Prabhakar Shukla and Prachi Singh

3# Book of Extended Abstracts, International Conference on Modelling of Environmental and Water Resources Systems (ICMEWRS-2017), *March 24-26th, 2017, HBTU Kanpur, India, ISSN: 978-93-85926-53-2.*, 272 pages, Allied Publishers Pvt. Ltd. (ISBN-10 : 9385926535, ISBN-13 : 978-9385926532)

Editors: Dipteek Parmar, R.M. Singh. Amitabh Srivatava, Alok Sharma and R.K. Prasad

Book Chapters

1. Kumar, P., Shukla P. and Singh, R.M. (2023). Study of rising Surface Water Levels on Land Submergence and Groundwater” in Shukla, P., Singh, P., and Singh, R.M. (Eds.) Water Science and Technology Library (Springer), Volume 120, 2023. ISBN 81-7764-243-X & 81-7764-245-6; ISSN 0921-092X ISSN 1872-4663 (electronic), ISBN 978-3-031-20207-0; ISBN 978-3-031-20208-7 (eBook) <https://doi.org/10.1007/978-3-031-20208-7>
2. Shukla, P. and Singh, R.M. [2018] “*Groundwater System Modelling and Sensitivity of Groundwater Level Prediction in Indo-Gangatic Alluvial Plains*” In: Singh V., Yadav S., Yadava R. (eds) Groundwater. Water Science and Technology Library, 76: 55-66. Springer, Singapore. DOI: <https://doi.org/10.1007/978-981-10-5789-25>
3. Singh V., Singh R.M., Rawal N.R. (2018) Municipal Solid Waste Management with Uncertainty Analysis for Urban Cities. In: Singh V., Yadav S., Yadava R. (eds) Water Quality Management. Water Science and Technology Library, vol 79. Springer, Singapore. [[DOI: https://doi.org/10.1007/978-981-10-5795-3_32] [Print ISBN978-981-10-5794-6; Online ISBN978-981-10-5795-3]]
4. Singh R. M. and Singh P. (2016). “Groundwater quality mapping and predictions using geospatial and soft computing techniques”. In S. M. Yadav (Ed.), Application of Soft Computing Techniques in Civil Engineering(pp. 80-94) Viva Book Publications, ISBN 978-93-87692-99-2

5. Singh, R.M. (2014). Nutrient Load Predictions in Streams using LS-SVM and Wavelet-ANN. *Environmental Science & Technology 2014 Vol. 1* (Editor: Sorial and Hong), (ISBN 978-0976885368), pp 68-76.
6. Singh, R.M. and Shilpi (2014). River Sedimentation Prediction Using Wavelet ANN and LS SVM. Chapter 77 in HYDRAULICS, WATER RESOURCES, COASTAL AND ENVIRONMENTAL ENGINEERING (Editors. H. L. Tiwari, S. Suresh and R. K. Jaiswal © MANIT Bhopal), Excellent Publishing House, Kishangarh, Vasant Kunj, New Delhi – 110070, (ISBN: 978-93-84935-04-7) pp 820-828.
7. Singh, R.M. and Srivastava, Divya (2013). Groundwater System Modeling for Pollution Source Identification Using Artificial Neural Network, in SEMCCO 2013 Part-II, (Eds. B.K. Panigrahi et al.), LNCS (Lecture Notes in Computer Science) 8298, pp. 226–236
8. Singh, R.M. (2012). Wavelet-ANN model for nutrient load predictions in rivers, in SEMCCO 2012, (Eds. B.K. Panigrahi et al.), LNCS (Lecture Notes in Computer Science) 76772012 (© Springer-Verlag Berlin Heidelberg 2011), ISBN: 978-3-642-35379-6 (Print) 978-3-642-35380-2 (Online) pp. 558-565.
9. Singh, R.M. (2012). Wavelet-ANN model for river sedimentation predictions, in BIC-TA 2012 (Bio-Inspired Computing: Theories and Application), (Eds.) Jagdish Chand Bansal, Pramod Kumar Singh, Kusum Deep, Millie Pant, and Atulya K. Nagar, AISC (Advances in Intelligent and Soft Computing), (springerlink.com © Springer India 2013), Vol. 202, ISSN 2194-5357, ISBN 978-81-322-1040-5, DOI 10.1007/978-81-322-1041-2, pp 1-13.
10. Singh, R.M. and Rawal, NR (2012). Optimal municipal solid wastes management with uncertainty characterization using fuzzy theory, in BIC-TA 2012 (Bio-Inspired Computing: Theories and Application), (Eds.) Jagdish Chand Bansal, Pramod Kumar Singh, Kusum Deep, Millie Pant, and Atulya K. Nagar, AISC (Advances in Intelligent and Soft Computing), (springerlink.com © Springer India 2013), Vol. 202, ISSN 2194-5357, ISBN 978-81-322-1040-5, DOI 10.1007/978-81-322-1041-2, pp 111-125.
11. Singh, R.M. (2012). Prediction of herbicides concentration in streams, *Herbicides - Properties, Synthesis and Control of Weeds*, (Eds.) Mohammed Naguib Abd El-Ghany Hasaneen, ISBN: 978-953-307-803-8, InTech, d.o.o. (Open Science); www.intechweb.org; JanezaTrdine 9, 51000 Rijeka, Croatia. (Available from: <http://www.intechopen.com/articles/show/title/prediction-of-herbicides-concentration-in-streams>)
12. Singh, R.M. (2012). Non point pollution predictions in river system using time series patterns in multi level wavelet-ANN model. in *Pattern Recognition, Informatics and Medical Engineering (PRIME)*, IEEE Xplore, doi: 10.1109/ICPRIME.2012.6208379, ISBN: 978-1-4673-1037-6) pp.398-403 (URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6208379&isnumber=6208277>)

13. Singh, R.M. (2011). Wavelet neural network model for flood forecasting, in UFRIM (Urban Flood Risk Management) Approaches to enhance resilience of communities, International Symposium 21st – 23rd September 2011, Graz, Austria, (Eds., Gerald Zenz and Rudolf Hornich), e-book, ISBN 978-3-85125-173-9, Verlag der Technischen Universität Graz Graz University of Technology, pp. 157-162.
14. Singh, R.M. (2011). Optimal hydraulic structures profiles under uncertain seepage head. In World Renewable Energy Congress (WREC-2011), Linköping University, Sweden, 8-13 May, 2011, pp 712-718. (Editor, Professor Bahram Moshfegh), 57, Linköping University Electronic Press, Sweden. (http://www.ep.liu.se/ecp_home/index.en.aspx?issue=057; ISBN:978-91-7393-070-3; ISSN 1650-3740 (online); ISSN 1650-3686 (print) © The Authors)
15. Singh, R.M. (2011). Genetic algorithm based optimal design of hydraulic structures with uncertainty characterization, in SEMCCO 2011, Part I (Eds.B.K.Panigrahi, P. N. Suganthan, S. Das, and S. C. Satapathy), LNCS 7076 (© Springer-Verlag Berlin Heidelberg 2011), pp. 742–749.
16. Singh, R.M. (2011). Wavelet-ANN model for flood events, in SocProS 2011 (Soft Computing for Problem Solving), (Eds. Kusum Deep, Atulya Nagar, Millie Pant and Jagdish Chand Bansal), AISC (Advances in Intelligent and Soft Computing), (springerlink.com © Springer India 2012), Vol. 131, ISBN 978-81-322-0486-2 (DOI: 10.1007/978-81-322-0491-6), pp. 165–175.

Papers in Conferences Proceedings

International Conferences Proceedings

1. Yadav, A. and Singh, R.M. (2024). Assessment of Surface Runoff in the Macpherson Lake Catchment using SCS-CN and GIS Technique. In *International Water Conference for Sustainable Development Goals 2024* (IWCSD 2024), 22nd to 23rd March, 2024, Civil Engg. Department MANIT Bhopal, India.
2. Singh, D., Singh, R.M. and Rawal, N.R. (2023). Contamination Potential of Municipal Solid Waste Landfill Leachate in Urban Areas. In International Conference on Technologies and Innovations for Sustainable Development (TISD-2023), October 27-29, 2023 Organized by Central Library Motilal Nehru National Institute of Technology Allahabad (MNNIT) Prayagraj- 211004, India
3. Yadav, A. and Singh, RM .(2023). WATER BALANCE MODELING FOR URBAN PLANNING IN INDRAVATI RIVER BASIN USING ARC-SWAT, in 3rd International Conference on River Health: Assessment and Restoration (RHAR 2023) October 12-14, 2023. IIT (BHU) Varanasi. [id 2649]
4. Kumar, P. and Singh, R.M. (2023). SIMULATION AND REMEDIATION OF GROUNDWATER CONTAMINANT USING PERMEABLE REACTIVE BARRIER, in 3rd International Conference on River Health: Assessment and Restoration (RHAR 2023) October 12-14, 2023. IIT (BHU) Varanasi. [id 3666]]
5. Singh, D., Singh, R.M. and Rawal, N.R. (2023). MUNICIPAL SOLID WASTE LANDFILL LEACHATE CONTAMINANTS TRANSPORT MODELING IN URBAN AREA, in 3rd International Conference on River Health: Assessment and Restoration (RHAR 2023) October 12-14, 2023. IIT (BHU) Varanasi. [id 4028]
6. Yadav, A. and Singh R.M. (2023), “River Modelling for Flood Mitigation using HEC-RAS”, in abstract proceedings of 3rd International Conference on River Corridor Research and Management (RCRM 2023), Organised by Indian Institute of Technology Jammu and Indian Institute of Technology Guwahati, India *from 15th to 17th June 2023, P-38 ./Online (Virtual)*
7. Raj, A. and Singh R.M. (2023), Study of Effect of Variation of Threshold Values on Hydrological Response Units in Basin Modeling Using Swat, in abstract proceedings of 3rd International Conference on River Corridor Research and Management (RCRM 2023), Organised by Indian Institute of Technology Jammu and Indian Institute of Technology Guwahati, India *from 15th to 17th June 2023, P-46 ./Online (Virtual)*
8. Kumar, P., Shukla S. P., Behera S. N. and Singh, R.M. (2022). *A GIS-based route optimization approach for Municipal solid waste management.* in International Conference on Recent Developments in Civil Engineering (RDC-2022), organised by Motilal Nehru National Institute of Technology, Allahabad (U.P.), India, October 20-21, 2022
9. Kumar, P. and Singh, R.M. (2022). *Municipal Solid Waste Management using GIS based Optimization,* in CHEM-CONFLUX-22, an International Conference on Technological Interventions for Sustainability, jointly organised by Chemical Engineering Department, Motilal Nehru National Institute of Technology and

School of Chemical Engineering, Universiti Sains Malaysia which was held at Motilal Nehru National Institute of Technology Allahabad, Prayagraj during April 14-16, 2022.

10. Verma, R; Basu, D; and Singh, R.M. (2021). Water Quality Time Series Modeling using Statistical and Ensemble Models. **International Conference on Advances in Chemical, Biological and Environmental Engineering (ICACBEE-2021), MNIT, Jaipur, April 23-24, 2021** (ICACBEE-2021-OP-060).
11. Verma, R; Basu, D; and Singh, R.M. (2021). Assessment of water quality variation in upper ganga canal after extreme flood events using interrupted time series modeling. International Conference on Water and Environment (ICWE -2021), MANIT Bhopal, March 22-23, 2021.
12. Asha; Singh, R.M. and Rawal, N.R. (2021). Groundwater Contamination Attenuation with Permeable Reactive Barrier International Conference on Water and Environment (ICWE -2021), MANIT Bhopal, March 22-23, 2021.
13. Kumar, P; Raj, A; Srivastava, A; Kumar, Gohitman, C.K.; and Singh, R.M. (2021). Optimal design of barrage profile under surface and subsurface flow considerations. International Conference on Recent Advances in Civil Engineering for Sustainable Development (RACESD-2021), MANIT Bhopal February 13-14, 2021.
14. Nayyar, D., Kumar, A., Basu, D. and Singh, R.M. (2020). Modeling and Performance Evaluation of Electrocoagulation Unit for the Removal of Hexavalent Chromium. **Second ASCE India Conference on “Challenges of Resilient and Sustainable Infrastructure Development in Emerging Economies”, Kolkata (Novotel Kolkata Hotel and Residence), West Bengal- 700156 (March 02-04 2020)**
15. Singh, R.M. and Shukla, P. [2019] “LULC Changes and Sediment Yield Estimation Using Arc SWAT.” International Conference on River Health: Assessment to Restoration (RHAR-2019), 14-16 February, 2019, Department of Civil Engineering, Indian Institute of Technology (Banaras Hindu University), Varanasi, Uttar Pradesh, India.
16. Shukla, P. and Singh, R.M. [2018] “Statistical Downscaling of Climatic Variables in Indo Gangatic Alluvial Plain” 23rd International Conference on Hydraulics, Water Resources and Coastal Engineering [HYDRO-2018], 19-21 Dec. 2018, NIT Patna, Bihar, India.
17. Singh P. and Singh R. M. [2018] “Groundwater Contamination Source Identification Using Reduced Inputs in ANN.” Proceedings of 23rd International Conference on Hydraulics, Water Resources and Coastal Engineering (HYDRO 2018), December 19-23, 2018, NIT Patna, India.
18. Nayyar, D., Basu, D. and Singh, R.M. (2018). Fuzzy-Logic-Based Models to predict Biogas and Volatile Fatty Acid (VFA) Production in a UASB Reactor treating Sulphate rich Wastewater. International Conference on Sustainable Solutions in Industrial Pollution Water Wastewater Treatment, Nov 10-11, 2018, AMU Aligarh, pages 408-410.

19. Kumar, K. and Singh, R.M. (2018) "Application of Geomatics for Drainage Network Delineation for an Urban City". International conference on Geomatics in Civil Engineering (ICGCE-2018), 05-06 April 2018, Department of Civil Engineering, IIT Roorkee. [ISBN: 978-81-937264-0-2]
20. Shukla, P. and Singh, R.M. (2017). Simulation of groundwater system for hydrological drought periods. Proceedings of the Hydraulics, Water Resources, Coastal and Environmental Engineering (HYDRO 2017 International), L.D. college of Engineering, Ahmedabad, 21-23 December, 2017..
21. Singh V., Singh R.M. and Rawal N.R. (2017) "Optimal Municipal Solid Waste Management under Changing Waste Amount and Management Facilities Capacity for Indian Urban Area". *Proceedings of International Conference on modeling of environmental and water resources systems (ICMEWRS-2017)*, March 24-26th, 2017, HBTU Kanpur, India. Page 199, ISSN: 978-93-85926-53-2.
22. Singh P. and Singh R. M. (2017) "Groundwater Contaminant Transport Modelling and Source Identification Using ANN and Data Mining". *Proceedings of International Conference on modeling of environmental and water resources systems (ICMEWRS-2017)*, March 24-26th, 2017, HBTU Kanpur, India. Page 63, ISSN: 978-93-85926-53-2.
- Singh R.M. and Shukla P. (2017) "Trends and Variability of Droughts in Sai-Gomti Interfluve Region". *Proceedings of International Conference on modeling of environmental and water resources systems (ICMEWRS-2017)*, March 24-26th, 2017, HBTU Kanpur, India. Page 47, ISSN: 978-93-85926-53-2., Allied Publishers
23. Shukla P. and Singh R.M. (2017) "Assessment of Hydrological Responses Using Arc SWAT". *Proceedings of International Conference on modeling of environmental and water resources systems (ICMEWRS-2017)*, March 24-26th, 2017, HBTU Kanpur, India. Page 73, ISSN: 978-93-85926-53-2.
24. Shukla P. and Singh R.M. (2017) "Changes in Land Use and Land Cover in Sai-Gomti Interfluve Region". *Proceedings of International Conference on modeling of environmental and water resources systems (ICMEWRS-2017)*, March 24-26th, 2017, HBTU Kanpur, India. Page 125, ISSN: 978-93-85926-53-2.
25. Singh R., Singh R. M. and Rawal N.R. (2017) "Contaminant Flow and Transport in Alluvial Aquifer System". *Proceedings of International Conference on modeling of environmental and water resources systems (ICMEWRS-2017)*, March 24-26th, 2017, HBTU Kanpur, India. Page 173, ISSN: 978-93-85926-53-2.
26. Shukla, P. and Singh, R.M. (2016). Hydrological Responses Simulation and Parameters Optimization Using ARC SWAT and SWAT CUP. *Proceedings of Hydro2016, CWPRS Pune, India Dec 8th – 10th, 2016*, pp1826-1831.
27. Singh, P. and Singh, R.M. (2016). Groundwater quality mapping and salinity prediction in irrigated alluvial plain. *Proceedings of International*

Conference on Hydraulics, Water Resources and Coastal Engineering (Hydro2016), CWPRS Pune, India, 8th – 10th December 2016, pp 1509-1517.
 Groundwater quality mapping and salinity prediction in irrigated alluvial plain

28. Singh, R.M. (2016). Peak flow forecasting in Rivers using Flood Frequency Analysis with Extreme Value Distribution and LS-SVM. Proceedings, 6th International & 43rd National Conference on Fluid Mechanics and Fluid Power (FMFP-2016), 15th to 17th December 2016, MNNIT Allahabad, pp. .., 2016.
29. Singh, R.M. and Shukla, P. (2016). Groundwater system simulation and management using Visual MODFLOW and Arc SWAT. Proceedings, 2016 International Conference on Water Resource and Environment (WRE2016), Shanghai, China, July, 23-26, 2016.
30. Shukla, P. and Singh, R.M. (2016). Assessment of Hydrological Responses using Arc SWAT, Proceedings, 2016 SWAT (The Soil and Water Assessment Tool) Conference Beijing, China (p-25), July 27-29, 2016.
31. Singh, P. and Singh, R.M. (2016). Geospatial mapping of groundwater quality using GIS Proceedings, the 8th International Conference on Environmental Science and Technology (Sponsored by the American Academy of SciencesHouston) at Texas, USA June 6-10, 2016 (paper no.904).
32. Singh, R.M. and Shukla, P. (2016). Analyzing hydrological trends in surface and groundwater regime in Sai Gomti interfluvial. Proceedings, India Water Week (IWW-2016), Water for All: Striving together, Organized by Ministry of Water Resources, Govt. of India, New Delhi, 4-8, April 2016, pp 1-14 (S-3-38).
33. Singh, P. and Singh, R.M. (2016). Spatiotemporal mapping and prediction of groundwater quality. Proceedings, India Water Week (IWW-2016), Water for All: Striving together, Organized by Ministry of Water Resources, Govt. of India, New Delhi, 4-8, April 2016, pp 1-14 (S-4-69)..
34. Singh, V. Singh, R.M. and Rawal, N.R. (2016). Municipal Solid Waste Management with Uncertainty Analysis for Urban Cities. International Conference on Water, Environment, Energy and society (ICWEES-2016), AISECT University, Bhopal, India, March 15-18, 2016.
35. Shukla, P. Singh, R.M. and (2016). Groundwater System Modelling and Sensitivity of Groundwater Level Prediction in Indo-Gangatic Alluvial Plain. Proceedings of the International Conference on Water, Environment, Energy and society (ICWEES-2016), AISECT University, Bhopal, India, March 15-18, 2016.
36. Singh, R.M. and Shukla, P. (2015) Groundwater System Modelling with Parametric Uncertainty Characterization for Sai-Gomti Inter-fluvial Plain. Proceedings of the Hydraulics, Water Resources, Coastal and Environmental Engineering (HYDRO 2015 International), IIT Roorkee, 17-19 December, 2015..
37. Singh, R.M. and Shilpi (2015). Change Detection and Hydrologic Responses Simulation for LULC Changes using Remote Sensing and GIS. Proceedings of the Hydraulics, Water Resources, Coastal and Environmental Engineering (HYDRO 2015 International), IIT Roorkee, 17-19 December, 2015..
38. Mishra, S. and Singh, R.M. (2015). Non-point Pollution Modelling in River System with Input Reduction in Time Series Data Mining Domain. Proceedings of the Hydraulics, Water Resources, Coastal and Environmental Engineering (HYDRO 2015 International), IIT Roorkee, 17-19 December, 2015..

39. Srivastava, P. and Singh, R.M. (2015). Cropping Pattern Optimization in Irrigation Command under Uncertain Groundwater Parameter. Proceedings of the Hydraulics, Water Resources, Coastal and Environmental Engineering (HYDRO 2015 International), IIT Roorkee, 17-19 December, 2015..
40. Srivastav, P.K. and Singh, R.M. (2015). Irrigation water management for integrated and sustainable agriculture Proceedings, India Water Week (IWW-2015). Water Management for Sustainable Development, Organized by Ministry of Water Resources, Govt. of India, New Delhi, 13-17 January 2015, pp 1-14 (S-4-05).
41. Srivastava, P. and Singh, R.M. (2014). Multi Objective Optimization off Cropping Pattern In A Canal Command Area. Proceedings of the 19th International Conference on Hydraulics, Water Resources, Coastal and Environmental Engineering (HYDRO 2014 International), MANIT Bhopal December 18-20, 2014, (paper no. 323, abst. pp-139).
42. Singh, R.M. and Shilpi (2014). River Sedimentation Prediction Using Wavelet ANN and LS SVM. Proceedings of the Hydraulics, Water Resources, Coastal and Environmental Engineering (HYDRO 2014 International), MANIT Bhopal December 18-20, 2014, (paper no. 546, abst. pp-117).
43. Shilpi and Singh, R.M. (2014). Land Cover Classification By LS-SVM With Landsat Satellite Imagery. Proceedings of the Hydraulics, Water Resources, Coastal and Environmental Engineering (HYDRO 2014 International), MANIT Bhopal December 18-20, 2014, (paper no. 271, abst. pp-136).
44. Singh, R.M. (2014). Nutrient Load Predictions in Streams using LS-SVM and Wavelet-ANN. Proceedings, the 7th International Conference on Environmental Science and Technology (Sponsored by the American Academy of SciencesHouston) at Texas, USA June 9-13, 2014 (paper no. 1061, abst. pp9).
45. Shilpi, Singh, R.M. and Maurya , S.P., "River Network Identification Using Remote Sensing and GIS" in IEEE Sponsored Students Conference on Engineering and Systems (SCES 2014), Allahabad, India, May 28-30, 2014 (978-1-4799-4939-7/14/\$31.00 ©2014 IEEE).
46. Singh, R.M. and Neelima Upadhyay(2013). Water Storages Study in Hilly Terrain Using GIS and Remote Sensing Techniques Proceedings, India Water Week (IWW-2013). Efficient water Management: Challenges and Opportunities, Organized by Ministry of Water Resources, Govt. of India, New Delhi, 8-12 April 2013, pp 1-9 (S-1-06)
47. Jayaswal, K; Kalamdhad, A. and Singh, R.M. (2013). Physico-chemical Analysis of Vegetable Wastes using Rotary Drum. Published in Proceedings: International Conference on Health, Environment and Industrial Biotechnology (BioSangam-2013)at MNNIT Allahabad (Biotechnology Dept.), November 21-23, 2013 (Paper no. 162BCE056) (ISBN:978-93-83083-41-1).
48. Rawal, N. R; Singh, R.M. and Singh,P. Goal programming approach for solid wastes management in urban areas. 5th International Congress of Environmental Research (ICER-2012), 22-24 November, 2012, Universiti Malaysia Terengganu ,Kuala Terengganu, Malaysia, (ISBN : 978-81-909379-5-5)

49. Singh, R.M. (2012). Wavelet-ANN model for nutrient load predictions in rivers. Proceedings, Third International Conference, SEMCCO 2012, Bhubaneswar, India, December 20-22, 2012, India, pp 558-565.
50. Gautam, A.K., and Singh, R.M. (2012). GIS based Groundwater Modelling of Agricultural Canal Command Area. MAP India, 14th Annual International Conference and Exhibition on GeospatialInformation Technology and Applications, 7-9 Feb, 2012, Gurgaon, India (PN-44).
51. Singh, R.M. (2012). **Wavelet-ANN model for river sedimentation predictions.** Proceedings, Seventh International Conference on Bio-Inspired Computing: Theories and Application, 2012 (BIC-TA 2012), ABV-Indian Institute of Information Technology and Management Gwalior, India, December 14 - 16, 2012, pp 1-13.
52. Singh, R.M. (2012). Optimal Hydraulic Structures Profiles for Imprecise Seepage Head and Probabilistic Exit Gradient under Climatic Uncertainty. Proceedings, India Water Week 2012 (IWW-2012) Water, Energy and Food Security: Call for Solutions, Organized by Ministry of Water Resources, Govt. of India, New Delhi, 10-14 April 2012, pp 1-10.
53. Singh, R.M. (2012). Non point pollution predictions in river system using time series patterns in multilevel wavelet-ANN model. Proceedings of the International Conference on Pattern Recognition, Informatics and Medical Engineering (*PRIME-2012*), Department of CS, Periyar University, Salem, Tamilnadu, March 21-23, 2012, pp1-6.
53. Singh, R.M. (2011). Wavelet-ANN model for flood events. Proceedings Soft Computing for Problem Solving (SocProS 2011) organized at The Institution of Engineers (India), Roorkee Local Centre, IIT Roorkee Campus, Roorkee, December 20-22, 2011, pp 1-12.
54. Singh, R.M. (2011). Genetic algorithm based optimal design of hydraulic structures with uncertainty characterization. Proceedings, Second International Conference, SEMCCO 2011, Visakhapatnam, Andhra Pradesh, India, December 19-21, pp 742–749.
55. Singh, R.M. (2011). Optimal hydraulic structures profiles under uncertain seepage head. World Renewable Energy Congress (WREC-2011), Linköping University, Sweden, 8-13 May, 2011, pp 712-718.
56. Rawal, N. R; Singh, R.M. and Vaishya, R.C. (2011). Solid Wastes Management in Urban Areas. 4th International Perspective on Water Resources and Environment (IPWE, 2011), EWARI of ASCE, National University of Singapore, Singapore, 4-6 January 2011.
57. Singh, R.M. (2011). Wavelet Neural Network Model for Flood Forecasting Optimal hydraulic structures profiles under uncertain seepage head. Urban Flood Risk (UFRIM-2011), Graz University of Technology, Graz, Austria, Sept, 21st - 23rd, 2011.

58. Singh, R.M. (2010). Uncertainty characterization in the design of hydraulic structures profiles using genetic algorithm and fuzzy logic, Proc. of IAHR 9th International Conference on Hydro-science and Engineering (ICHE-2010) under IAHR, IIT Madras, India, August 2-5, 2010. Pp. 1710-1722.

59. Singh, R.M. and Srivastava, D. (2010). Management of pollution in groundwater systems using Neuro-Fuzzy Model. Proc. of 9th International Conference on Hydro-science and Engineering (ICHE-2010) under IAHR, IIT Madras, India, August 2-5, 2010. Pp. 1631-1640.

60. Rawal, N. R; Singh, R.M. and Vaishya, R.C. (2010). Optimal solid waste management in urban areas. International Conference on Continuous Optimization (ICCOPT), Santiago, Chile, 2010, July, 24-25, 2010.

61. Singh, R.M. (2010). Characterization of Uncertainty in Prediction of Diffuse Pollution Concentration in Streams. 3rd International Perspective on Current and Future State of Water Resources and Environment, EWARI of ASCE, IIT Madras, 3-5 January 2010.

62. Rawal, N. R; Singh, R.M. and Vaishya, R.C. (2010). Mathematical Models for Optimal Management of Solid Wastes in Urban Areas. 3rd International Perspective on Current and Future State of Water Resources and Environment, EWARI of ASCE, IIT Madras, 3-5 January 2010.

63. Singh, S.P. and Singh, R.M. (2010). GIS Based Drastic Model For Evaluating Groundwater Vulnerability. MAP India, 13th Annual International Conference and Exhibition on GeospatialInformation Technology and Applications, 19-21 January, 2010, Gurgaon, India (PN-106).

64. Singh, R.M. (2009). Optimal Design of Earthen Dams Using Pattern Matching by Artificial Neural Networks. Published in proceedings of 2nd International Conference on Long Term Behaviour of Dams in Graz, Austria, October 12-13 Oct.2009,pp 307-311.

65. Singh, R.M. (2009). Optimal Design of Hydraulic Structures Profiles under Seepage Flow Using Hybrid Intelligent Method. Proceedings of the International Conference on Food Security and Environmental Sustainability (FSES-2009), IIT Kharagpur, December 17-19, 2009.

66. Srivastava, D. and Singh, R.M. (2009). Fuzzy Rule based Management of Pollution in Groundwater Systems. Proceedings of the International Conference on Food Security and Environmental Sustainability (FSES-2009), IIT Kharagpur, December 17-19, 2009.

67. Mohmad, F., Singh, R.M. and Mehta, R.C. (2009). Design of Composite Irrigation Channels Using Optimization and Pattern Matching by Artificial Neural Network. Proceedings of the International Conference on Food Security and Environmental Sustainability (FSES-2009), IIT Kharagpur, December 17-19, 2009.

68. Singh, R.M. (2008). "Fuzzy and Neural Network Models for Pollution Concentration Predictions in Streams" 12th IACMAG Conference, Goa, India, October 1-6, pp 1720-1729.
69. Singh, R. M. and Singh, R. (2005). "Agricultural Diffuse Pollution Estimation Using Fuzzy Rule Based Model." Proceedings of the International Symposium on Recent Advances in Water Resources Development and Management (RAWRDM-2005), at IIT Roorkee, 1010-1018.
70. Singh, R. M., Datta, B., and Jain, A. (2003) "Estimation of Unknown Flow and Transport Parameters in Groundwater Using Artificial Neural Networks." Proceedings of the International Conference on Water and Environment (WE-2003), Regional Research Laboratory, Bhopal.
71. Singh, R. M., Datta, B., and Jain, A. (2002). "Identification of Unknown Pollution Sources Using Artificial Neural Network." Proceedings of the International Conference on Advances in Civil Engineering (ACE-2002), at IIT, Kharagpur, 84-93.

National Conferences Proceedings

1. Kumar, K. and Singh, R.M. [2019] "Geospatial Techniques for Characterization of Land Surface Temperature." Geotechnical and Geo-Environmental Engineering (ICGGE-2019), National Conference, March 1-2, 2019, MNNIT Allahabad, Prayagraj, Uttar Pradesh, India.
2. Shukla, P. and Singh, R.M. [2019] "Groundwater Recharge Estimation under Changing Climate and Land Use Land Cover." Geotechnical and Geo-Environmental Engineering (ICGGE-2019), National Conference , March 1-2, 2019, MNNIT Allahabad, Prayagraj, Uttar Pradesh, India.
3. Singh, R.M. (2018).Identification of Unknown Subsurface Contaminated Sites for Known Pollution Scenarios. As discusser in Proceedings of presentations NERCS National Networking Workshop on Contaminated Sites: Subsurface Investigations and Remediation during July 12th & 13th 2018 Organised by: Geotechnical &Geoenvironment Group, Civil Engineering Department, IIT Delhi. Sponsored by Ministry of Environment, Forest and Climate Change, government of India P-33,
4. Singh, R.M. and Shukla, P. (2017). Characterizing trends and variability of droughts and its linkage to ENSO for Indo Gangatic alluvial plains. Proceedings, 5th*National Conference* of Ocean Society of India [OSICON-17], August 28-30, 2017 at National Center for Earth Science Studies (NCESS), Thiruvananthapuram, Kerala, pp 59.
5. Shukla, P. and Singh, R.M. (2016).Trend analysis of hydro-climatic variables in Sai Gomti interfluve. Proceedings, *National Conference on Water Resources & Flood Management with special reference to Flood Modelling October 14-15, 2016 SVNIT Surat. (WRH-18) [ISBN 978-81-931162-4-1]*

6. Singh, R.M. (2016). Uncertainty quantification in annual peak flood forecasting in rivers using flood frequency analysis and LS-SVM. Proceedings, *National Conference on Water Resources & Flood Management with special reference to Flood Modelling October 14-15, 2016 SVNIT Surat. (WRF-6) [ISBN 978-81-931162-4-1]*
7. Mishra, S. and Singh, R.M. (2015), Non-point pollution modelling in river system. In the proceedings of 47th IWWA Annual Convention, Kolkata, India 31st January & 1st February, 2015
8. Singh, R.M. (2012). Estimation of nitrogen and phosphorous loads in rivers using Wavelet-ANN model. Proceedings of the National Conference on Hydraulics, Water Resources, Coastal and Environmental Engineering(Hydro-2012, IIT Bombay, December 7-8, pp 1353-1362.
9. Singh, R.M. (2011). Design of barrage profile using non-linear Optimization with Probabilistic Constraint. Proceedings of the National Conference on Hydraulics, Water Resources, Coastal and Environmental Engineering(Hydro-2011, (ISBN 81-88901-47-0) at NIT Surat, December 29-30, pp 837-843.
10. Singh, R.M. , Tripathy, S., and Mehta, R.C. (2011). Prediction of Hydraulic Jump Characteristics Using ANN Model. Proceedings of the National Conference on Hydraulics, Water Resources, Coastal and Environmental Engineering(Hydro-2011, (ISBN 81-88901-47-0) at NIT Surat, December 29-30, pp 1021-1028.
11. Singh, R.M. (2010). Wavelet-ANN Model for Diffuse Pollution Prediction in Streams. Proceedings of the National Conference on Hydraulics, Water Resources, Coastal and Environmental Engineering(Hydro-2010) at MMEC, MM University, Maulana (Ambala), December 16-18, pp 848-854.
12. Srivastava, D., Singh, R.M. (2010). ANN Based Simulation Model for Polluted Aquifers. Proceedings of the National Conference on Hydraulics, Water Resources, Coastal and Environmental Engineering(Hydro-2010) at MMEC, MM University, Maulana (Ambala), December 16-18, pp 842-847.
13. Srivastava, D., Singh, R.M. (2010). Estimation of Nitrate Pollution in Groundwater using Neuro-fuzzy based Model. Proceedings of the Seventeenth National Symposium on Environment (NSE-17), IITK-BARC Conference on Advances in Environmental Monitoring held at IIT Kanpur May 13-15, 2010. Solar Press, Kanpur, ISBN 81-904444-1-5., pp 282-285.
14. Singh. R.M. (2009). "Artificial Neural Network Based Predictions of Downstream Sheet Pile Depth in Barrage Profiles with Subsurface Flow Considerations", Proceedings of National Seminar on Recent Advances in Hydrology for Water Resource Development and Management (21st January 2009) at Water Resources Engineering and Management Institute Samiala, Ta & Dist. Vadodara-391410.
15. Singh. R.M. (2008). "Barrage Profiles Predictions by Pattern Matching Using Artificial Neural Networks", Proceedings of National Conference on Hydraulics & Water Resources(Hydro-2008) at MNIT, Jaipur, 2008, 623-631.
16. Singh. R.M., Rahul, A.I., (2008). "Water Quality Predictions due to Intrusion of Pollutant in Water Distribution Networks" Proceedings of National Conference (45th Annual Conference of Indian Association of Environmental Management) on

Integrated Water and Wastewater Management (NCIWWM) (20-22 Novemebr, 2008), NCIWWM/9/I/4, at organized by School of Water Resources Engg., JDU, Kolkata.

17. Singh. R.M. (2008). "Cost Effective Design of Hydraulic Structures Using Non-linear Optimization Programme", Proceedings of National Conference on Advances in Civil Engineering at MAEER's MIT, Pune, pp 8-12.
18. Singh. R.M. (2007). "Optimal Design of Barrages Using Genetic Algorithm", Proceedings of National Conference on Hydraulics & Water Resources(Hydro-2007) at SVNIT, Surat, 2007, 623-631.
19. Singh, R. M. (2004a). "Modeling the Missing Data Scenario in Groundwater Using Artificial Neural Network." Proceedings of the Workshop on Establishment of State Water Resources Data Processing and Data Storage Centres, State Water Resource Agency, Government of UP, Lucknow.
20. Singh, R. M. (2004b). "Optimal Productive Irrigation Requirement for Variable Water Availability Using Mathematical Models." Proceedings of the Workshop on Basin Planning in Uttar Pradesh: Issues and Options, State Water Resource Agency, Government of UP, Lucknow.
21. Verma, D.V.S., Goel, A., and Singh, R. M. (2002). "Flow Characteristics of a Rough Compound Channels" Proceedings of conference on Hydraulics, Water resources & Ocean Engineering, HYDRO 2002, 93-97.
22. Verma, D.V.S., Goel, A., and Singh, R. M. (1997). "Flow Distribution in Rough Compound Channels." Proceedings of Recent Trends in Theoretical and Applied Mechanics (RITAM-97), 203-210.
23. Prasad, T; Bhagat, V.B; and Singh, R. M. (1996). "Conjunctive Use of Surface and Groundwater for Sustainable Drinking Water Supply". Proceedings of Third National Water Congress on 'Sustainability Issues' at IIT, Delhi.