

## CURRICULUM VITAE



**Name: Dr. (Mrs.) Kanchan Chandrashekar Khare**

**Senior consultant Water Resources at Sevavardhini**

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**Cell:** 9422320688 / 8975035442

**Qualifications:** Ph.D. (Water Resources Engineering) I.I.T Mumbai  
M.E. (Town & Country Planning) Pune University  
B.E (Civil Engineering) Pune University

**Special Training:** Project Based Learning University of Aalborg; Denmark ( 2010)  
( Erasmus Mundus Scholar for Mobility for Life)

### **Areas of Research & Specialization**

Experimental Hydraulics  
Environmental Hydraulics

### **Passion**

Project Based Learning, Problem-based learning,

### **Professional Society Memberships**

Indian Society of Hydraulics, Indian Society of Technical Education, Institution of Engineers India,  
All India Institute of Town Planners, Indian Association of Hydrologists

### **International Action & Research Funding (EUR 5 million funded by the DST & EU)**

Principal Investigator on behalf of Symbiosis International University for an International action and Research project "Potential and Validation of Sustainable Natural & Advance Technologies for Water & Wastewater Treatment, Monitoring and Safe Water Reuse in India"  
Grant Agreement Number: 821410 – PAVITR -H2020-SC5-2018-2019-2020

### **Sponsored Projects (3 million INR)**

- **Modeling assessment and prediction of groundwater contamination: a case study of Plachimada**  
Sponsoring Agency: Symbiosis International University 2014, as Principal Investigator
- **Forecasting RSPM with soft computing techniques**  
Sponsoring Agency: University Grants Commission, 2008, as co-investigator
- **Modeling Interaction of leachate with groundwater: a case study of Pune,**  
Sponsoring agency: BCUD, 2008, as co-investigator
- **Photo catalytic coating on pavements for vehicular pollution abatement.**  
Sponsoring Agency: BCUD, 2008, as co-investigator
- **Anaerobic bioreactor landfill for biostabilization and green renewable energy generation from MSW**  
Sponsoring Agency: AICTE, India, 2007, as Principal Investigator
- **Feasibility study of anaerobic bioreactor landfill for Pune City**  
Sponsoring Agency: BCUD, 2007, as Principal Investigator
- **Analysis, Parameter Estimation & operational Control of Exuding Pipe,**  
Sponsoring Agency: University Grants Commission, 1998 as Principal Investigator

#### **Testing & Consultancy Projects (1 million INR)**

- Worked as a Safety Consultant team member for the development and Construction period of the project: Pune Sholapur National Highway for the National Highway Authority of India
- Feasibility study of foundry ash as construction material
- Testing of concrete cubes
- Soil testing

#### **Patents Published**

Application number: 202321001678: "A MODIFIED COIR GEOTEXTILE MATRIX AND METHOD OF PREPARATION THEREOF" 27/01/2023

Application Number 202321019124: "Enhanced DEPHOSPHORIZATION BY HORIZONTAL FLOWCONSTRUCTED WETLAND MODEL USING COMPOSITE MATRIX "07/04/2023.

#### **Professional Training Received**

- Training program on MIKE 11 Software, (2 days) SCOE 2011
- Project Based Learning (1month) University of Aalborg, Denmark, 2010
- Applied Geology in Civil & Mining Engineering (5days) IIT, Mumbai, 2005.
- Geoinformatics in Water Sector (2days) NWA, 2005.
- Applications of Remote Sensing & Geographical Information System
- Techniques in Water Resource Development & Management (10days), NWA, 2004.
- Training Program on GRAM++ (1 day), IIT Mumbai, 2004.
- Advanced Technologies in Water Resources Management (3 days), IIT, Mumbai, 2002.
- Training on GIS as a revenue-generating Model, (1 day) D.Y.Patil College of Engineering, 2002
- Seminar on Piping & Pumping (2days) ISH, 1999.

- Workshop on ISO 14000, Environmental Aspects of Quality Systems (2 days) PDPC, 1995.
- Workshop on ISO 9000 in Quality Assurance System (3 days) PDPC, 1995.
- Low-Cost Housing, (1day) CONSTRO, 1994.
- Laboratory Techniques (1 day) ISTE, 1991.
- Evaluation Techniques organized by (2days) ISTE, 1992.
- Computers in Civil Engineering (3days) IIT Madras, 1989.

## **Honors**

- Member of the Academic Council of Symbiosis International University
- Member Board of Studies of Civil Engineering of Symbiosis International University.
- Reviewer of the International Journal of Environmental Chemistry & Ecotoxicology
- Elected member of the Board of Studies of Pune University for two consecutive terms
- Honoured with super intelligence cadre by the management of Sinhgad Technical Education Society from May 2009.
- Worked on the Editorial board of the International Journal of Advances in Engineering Sciences  
<http://www.publishingindia.com/Default.aspx>
- Invited to chair the technical session in the National Seminar on Recent Advances in Civil Engineering, by Indian Water Works Association, Bangalore, 2006.
- Award for Best (undergraduate) Project Guided in the Water sector, Central Water Academy, 2005.
- Invited Faculty for Guidance course in Water Resources Engineering for MPSC examination coaching, Institution of Engineers, India, 2004.
- Elected as a member of the Executive Committee of ISH, a voluntary organization working in Hydraulics. (Three tenures of two years each) 2000-06.
- Excellence in Teaching Award, Sinhgad College of Engineering Pune, 2002, 2003.
- Best Paper award, National Conference, Hydro, 2001.

## **Appointments**

- 06/2024 - till date Senior consultant Water Resources at Sevavardhini
- 06/2023- 06/24 Adjunct Professor, Pimpri Chinchwad College of Engineering, Pune
- 05 /2013-05/2023 Professor of Civil Engineering, Symbiosis Institute of Technology, Pune
- 05/2004 –04/2013 Professor, Head Department of Civil Engineering and Vice Principal, Sinhgad College of Engineering, Pune.
- 06/1999 - 05/2004 Assistant Professor, Sinhgad College of Engineering, Pune.
- 01/1987 - 06/1999 Lecturer, Bharati Vidyapeeth College of Engineering, Pune.
- 06/1985 - 12/1986 Estimation Engineer, C.S Associates, Pune,
- 06/1984 - 06/1985 Trainee Engineer, V.M. Jog Constructions Pvt. Ltd. Pune.

## **Experience (Industrial Experience)**

- Involved in site supervision, designing layouts, Planning, Tendering
- Involved in site supervision, Estimation, Costing & Billing

### Experience (Academic Experience)

- Involved in teaching various undergraduate & postgraduate courses,
- Developing various laboratories and preparing laboratory manuals
- Teaching Research Methodology course for Ph.D. students
- Guiding undergraduate, postgraduate, and Ph.D. students.
- Examining & evaluation of master's level projects of Shivaji University
- Designing courses for undergraduate and post-graduate level
- Evaluation of the projects

### Experience in Academic Administration

- Organizing workshops/Faculty Development / Staff Training Programs
- Soft skill development program for Supporting staff, technical Assistants,
- Institute level Academic administration.
- Organizing value addition and continuing education programs for faculty
- Promotion of R& D activities
- Involved in Purchase procedures at the institute level.
- Report preparations of Local managing committee meetings, governing body meetings, and Local Enquiry committees of Pune University.
- Elected member of board of studies for 2005-10
- Member of committee to appoint examiners.
- Member of syllabus restructuring committee
- Chairman of syllabus revision committee: Fluid mechanics, Irrigation Engineering

### Experience in Research Administration (Candidates who have been awarded Doctoral Degrees)

- Mr. S T. Mali. **Title:** Anaerobic Bioreactor Landfill for Bio-stabilization and Green Renewable Energy Generation from Municipal Solid Waste: A Case Study
- Mr. G. A. Hinge. **Title:** A new technique for controlling hydraulic jump in a rectangular channel.
- Mr. D.R. Jundhare **Title:** Study on design analysis & performance evaluation of white topping overlay as a measure of rehabilitation of existing flexible pavements.
- Mr. S. M. Nitsure **Title:** Soft Computing Approach for Estimation and Forecasting of Oceanic Parameters
- Mr. N.D. Chaudhari **Title:** Data-Driven Approach for Daily Pan Evaporation Modeling
- Ms. S.R. Tikhe **Title:** Soft Computing Approaches for forecasting Air quality
- Ms. M.S. Jadhav **Title:** Data Driven Approach for Forecasting Lake Water Pollution.
- Ms. V.V Dabir **Title:** Experimental and Numerical Studies on Hydraulic Performance of a Composite Seawall
- Ms. A. A. Avasthi **Title:** Characterization and Design of Reinforced Concrete using Natural Fiber Ash to Resist Corrosion
- Mr.R.P. Kulkarni **Title:** Water Quality Assessment and Prediction Modelling of Lakes Using Integrated Satellite Data Fusion
- Ms. M.P. Kshirsagar **Title:** Storm Water Quality Modelling for Developing Countries with Special Reference to a Peri-Urban Region

**Candidates who are pursuing a Ph.D. (In area related to water Resources Engineering)**

- Ms. J.S. Mahale

**Selected Journal Publications**

- **Assessment of recycled treated wastewater for sustainable tomato crop production: A comprehensive review**, Environmental Challenges, (2023)
- ***Performance enhancement of constructed wetlands for wastewater remediation by modifications and integration of technologies: A review***, Environmental Progress and Sustainable Energy ( 2022)
- ***Zero liquid discharge technology for recovery, reuse, and reclamation of wastewater: A critical Review***, Journal of Water Process Engineering,( 2022)
- ***Constructed Wetlands for removal of Phosphorus from Domestic Wastewater-A Patent Review***, Sustainable Water Resources Management (2022)
- **Screening of low-cost waste materials for removal of phosphorus from wastewater in Constructed Wetlands**, Materials Today: Proceedings ( 2022)
- **A Composite Permeable Sloping Seawall for Effective Energy Dissipation: A Quasi-Soft Alternative Solution for Shore Protection**, Journal of Marine Science& Engineering ( 2022)
- **Materials for phosphorous remediation: a review** of phosphorus, Sulfur, and Silicon and the Related Elements ( 2021)
- **Materials in constructed wetlands for wastewater remediation: A review**, Water Environment Research ( 2021)
- **Wastewater Treatment Technologies: A Bibliometric Analysis**, Science and Technology Libraries Sept 2020
- **Spatio-temporal prediction of water quality parameters of a reservoir using genetic programming and least square support vector machine**, International Journal of Hydrology Science and Technology, vol 8 issue 3, Aug2018 pages 273-288
- **Water Quality Prediction of Gangapur Reservoir (India) Using LS-SVM and Genetic Programming**, Lakes and Reservoirs, Jan 2016.
- **Multicity Seasonal Air Quality Index Forecasting Using Soft Computing Techniques**, Advances in Environmental Research, Techno press Vol. 4, No. 2, 2015, 83-10,
- **Prediction of Sea Water Levels Using Wind Information and Soft Computing Techniques**, Elsevier Applied Ocean Research vol.47, Aug2014, pages 344-35.
- **Spatial Mapping of Pan Evaporation Using Genetic Programming**, International Journal of Hydrology Science and Technology, Vol. 4, No. 3, 2014, pages.234–244
- **Short Term Air Quality Forecast Using Data Driven Approaches**, International Journal of Engineering Research and Applications. Vol. 4, Issue 1(Version 2),2014,224-236
- **Selection of Significant Input Parameters for water quality prediction: a comparative approach**,

International Journal of Research in advent Technology vol 2 issue 3, 2014, pages 81-90

- **Modeling of Biogas Production and pH of Leachate in Anaerobic Bioreactor Landfill**, Institution of Engineers India PLC journal Vol 37 ,2013, pages 110-114
- **Forecasting Criteria Air Pollutants Using Data Driven Approaches; An Indian Case Study**, IOSR Journal of Environmental Science, Toxicology and Food Technology Vol.3 (5),2012, pages1-8
- **Wave forecast using wind information and genetic programming**, Elsevier publications; Ocean Engineering vol.54, 2012, pp 61-70
- **Estimation of evaporation using soft computing tools**, International Journal of Hydrology Science and Technology, Inder science publications Vol. 2, No. 4,2012, pp 373-399
- **An improved technique of controlling hydraulic jump in rectangular channels**, International Review of Civil Engineering Vol3(2),2012, pp 170-175
- **Global warming influenced by pan evaporation** Bionano Frontier, Journal of Science and Technology Special issue-9 pp, 2012 224-227.
- **Enhancement of methane production and bio-stabilization of municipal solid waste in anaerobic bioreactor landfill**, Bioresource Technology Vol. 110, 2012, pp. 10-17
- **Ultra-Thin White topping in India: State-of-Practice**, International Journal on Transportation and Urban Development Vol.2(1),2012, pp 1-5
- **Load Transfer Efficiency of Dowel bar System in unbonded Conventional White topping Overlay**, International Journal of Civil, Structural, Environmental and Infrastructure Eng. Research and Development Vol.2(2),2012, pp 1-9.
- **Structural Analysis of Ultra-Thin Whitetopping under Wheel Loading using Computer Code ANSYS**, International Journal of Structural Engineering Vol 3(3), 2012, pp 208-228
- **Performance Evaluation of Ultra-thin Whitetopping in India by BBD Test**, International Journal of Engineering Research and Technology, Vol.1(4),2012, pp 1-9
- **A New Technique for Controlling the Location of Hydraulic Jump in a Rectangular Channel**, Journal of Advances in Engineering Sciences, Vol.1(1),2012, pp 91-96.
- **Life Cycle Cost Analysis of Ultra-Thin Whitetopping Overlay V/S Rigid Pavement and Flexible Pavement**, International Journal of Advances in Management, Technology and Engineering Sciences Vol.1(9-II), 2011, pp 71-76.
- **Characterization of municipal solid waste at landfill India**, Proceedings of the Institution of Civil Engineers, Waste and Resource Management, Vol 164,2011, pp247-255
- **Estimation of Methane Gas Emission from Municipal Solid Waste Landfill: Pune City, India**, Environmental Research Journal, Nova Science Publishers, Inc. 2011
- **Experimental and Numerical Study of Compound Broad Crested Weir**, International Journal of Fluids Engineering Vol 3, 2 2011, pp.197-202
- **Development of Alternative Tool for Measuring LTE in White topping Overlays**, Annual Technical Journal, The Institution of Engineers (I) Vol.35,2011, pp1-6
- **Edge stresses and Deflections of Unbonded Conventional White Topping Overlay**, The Indian Concrete Journal Vol.85(3),2010, pp 35-44
- **Pawana dam energy dissipation: a case study** Australian Journal of basic & Applied Sciences Vol.4 (8), 2010, pp. 3261-3267

- **Improved Design of Stilling Basin for Deficient Tail Water**, Journal of Applied & Basic Scientific Research Vol.1(1), 2010, pp.31-40.
- **Unbonded conventional white topping overlay performance in India**, Journal of Applied & Basic Scientific Research Vol.1 (1), 2010, pp. 84-89.
- **Limnological study of Pashan Lake, Pune, (Maharashtra, India)**, Journal of Advances in Engineering Science Vol.D(1), 2010, pp.25-30
- **Conventional white topping as an emerging technique for rehabilitation of distressed hot mix asphalt pavements under heavy traffic conditions**, International Journal of 3R's Vol. 1 (3), 2010, pp 112-121
- **Effects of leachate recirculation on organic waste and leachate stabilization in anaerobic bioreactor**, International Journal of Civil Engineering & Technology Vol.1(2), 2010, pp.94-108
- **Urban flood risk assessment using GIS-based Hydraulic Modeling**, Journal of Advances in Engineering Sciences, Vol.1,2010, pp.77-84.
- **Unbonded Conventional Whitetopping Overlay Performance in India**, International Journal of Civil Engineering and Technology, Vol.1(1), 2009, pp 84-94.
- **Effect of White Plastic Balls on Pan Evaporation**, journal of Central Bureau of Irrigation and Power Vol.19 (1), 2008, pp-33-34
- **Case Study and Performance Evaluation of Rigid Pavement Overlay Technology on Existing Bituminous Pavement of Mumbai-Pune Road within Municipal Corporation Limit of Pimpri-Chinchwad**, Journal of Indian Road Congress Vol.69(1), 2000, pp 81-100.
- **Exudation, advancement in micro irrigation**, Journal of Indian Society of Hydraulics Vol11(1); 1997, pp 12-15
- **ISO 9000 Quality Assurance System in Construction Industry**, Journal of Builders Association, Vol3(4),1997, pp119-21
- **Merger of Hingane- Khurd in PMC limits**, Journal of Builders Association of India Vol.7.1996, pp-313- 318
- **Some aspects of water logging with special reference to localized irrigation**, Water logging, and Soil Salinity in Irrigated Agriculture C.B.I.I.P Delhi., Vol. 11, 1996, pp- 98-102
- **Rank-Based Expected Value Method- A new approach for Evaluation of Planning standards**, Special issue on Perspective Planning for Road Development in India. Indian Road Congress, Delhi Vol 10, 1996, pp- 144-150

### Conference Publications

- **Sustainability analysis of coir geotextile for potential armor for seawall**, International Conference on Advancing Sustainable Futures (ICASF 2023), Dubai
- **Modeling Groundwater flow and cadmium contamination in an over-exploited aquifer: a case study of Plachimada, India**, IGWC 2015 6th International Groundwater Conference, Madras 11-13 Feb 2016
- **Comparative Study of Runoff Models for Urban Area: A Case Study of North London**, Hydro

International conference, IIT Roorkee, India 26-27 Dec 2015

- **Use of Wind Information and Artificial Neural Network for Water Level Estimations**, A National Conference on Tech Streams, Pillai HOCL Educational Campus, Rasayani, via Panvel, Raigad. Maharashtra 21st - 22 Feb 2014
- **Data Driven Approach to Forecast Pan Evaporation**, International Symposium on Integrated Water Resources Management (IWRM - 2014), Centre for water resources development and management Bangalore, 19- 21 Feb 2014
- **A Conceptual Rainfall-Runoff Model Using the Auto Calibrated NAM Model for a gauged basin**, international conference on Hydraulic and Water Resources (HYDRO 2013), IIT Madras 4 - 6 Dec 2013
- **Peak Wave Height Predictions using the Soft Computing Techniques**, 18th Congress of the Asia & Pacific Division of the International Association for Hydro-Environment Engineering and Research (IAHR-APD), ICC Jeju, Korea 19 - 22nd August 2012
- **Global warming influenced by pan evaporation Eco Revolution**, International Conference, Colombo (Sri Lanka) 20th to 23rd Aug 2012
- **Transmission behavior of low crested breakwater with wide toe-berm**, international conference on Hydraulic and Water Resources (HYDRO 2012), IIT Bombay, India 7 & 8 Dec 2012
- **Application of Genetic Programming for Peak Wave Height Prediction**, CORT 2012, An International conference Institute of Knowledge Shikrapur, Pune 9th to 11th Feb 2012
- **Daily Pan Evaporation Modeling Using ANN and GP CORT 2012**, International conference Institute of Knowledge, Shikrapur, Pune 9 to 11 Feb 2012
- **Spatial Mapping of Pan Evaporation Using Artificial Neural Networks**, HYDRO 2011 An international conference SVNIT Surat, 29 -30 Dec 2011
- **Determination of Modulus of Subgrade Reaction for Designing of White topping Overlay**, International Conference on Advances in Materials and Techniques in Civil Engineering, Coimbatore, India 4 - 5 April 2010
- **Daily Pan Evaporation Modeling Using Soft Computing Techniques**, Environment, and Water Resources Institute of American Society of Civil Engineers, IIT Madras, 5 - 7 Jan 2010
- **Rapid Rehabilitation Technique of Pavement Using Thin Whitetopping Overlays - A Case Study of Pune, India**, International Conference on Advances in Materials and Techniques in Civil Engineering, Coimbatore, India. 4 – 5 April 2010
- **Forecasting the Ocean Wave Heights using Linear Genetic Programming**, International Conference on Hydro-Science and Engineering Chennai, Tamil Nadu, 2 - 5 Aug 2010
- **Application of Genetic Programming for Estimation of Ocean Wave Heights**, World Congress on Nature and Biologically Inspired Computing, Coimbatore, India, 9- 11 Dec 2009
- **Evaluation of Rapid Composting Technique for Vegetable Waste**, International Conference and Exhibition on Solid Waste & Environment, Anna University Coimbatore 12– 14 August 2009
- **Rapid Rehabilitation Technique with Whitetopping Overlays on Existing Flexible Pavement – A case Study**, International Conference on Emerging Technologies in Satellite Township and Local



Infrastructure, Indian Concrete Institute, Pune, India, 15 – 18 Feb. 2009

- **Subgrade Soil Investigation for Designing of Whitetopping Overlays on Existing Flexible Pavement-A Case Study of Pune City**, India Indian Geotechnical Conference, IGC-2009, Guntur, Andhra Pradesh, India, 16 - 18 Nov 2009
- **Genetic Programming to estimate daily Pan Evaporation**, Hydro- 2009; CWPRS, Pune 17 - 18 Dec 2009
- **Wetland system for Landfill Leachate Treatment**, International Conference and Exhibition on Solid Waste & Environment, Anna University Coimbatore, 12 – 14 August 2009
- **Forecasting RSPM Using Soft Computing Approaches** Indian International Conference on Artificial Intelligence at Tumkur, Karnataka, India, 8 - 9 June 2009
- **Estimation of ocean wave heights using Linear Genetic Programming**, National Conference on Hydraulics, Water Resources, Pune, India ,17 & 18 Dec 2009
- **Daily Pan Evaporation Modeling Using Soft Computing Techniques**, IAH conference, Chennai, 25 - 27 Jan 2009
- **Prediction of Water Level anomaly using Artificial Neural Networks**, International Conference in Ocean Engineering, Chennai, India, 1 - 5 Feb 2009
- **Anaerobic Digestion of Organic Fraction of Municipal Solid Waste**, Indo- Italian Conference on Emerging Trends in Waste Management Technologies MIT COE, Pune 3- 4 Dec 2009
- **Phytoremediation of Landfill Leachate**, Indo- Italian Conference on Emerging Trends in Waste Management Technologies, MIT COE, Pune 3- 4 Dec 2009
- **Hard and Soft Computing Approaches for Air Quality Modeling**, International Conference on Emerging Trends in Engineering Loni, India 20 & 22 Dec 2008
- **Applications of genetic programming in ocean engineering**, International Conference on Emerging Trends in Engineering, Pravara Rural engineering College, India 20- 22 Dec 2008
- **Evolution of mathematical model for positioning the forced hydraulic jump in a rectangular channel**, International Conference Pravaranagar, India 20- 22nd Dec 2008
- **Analysis and Performance Evaluation of Cement Concrete (Whitetopping) Overlay on Bituminous Pavement for Indian Traffic and Climatic Conditions**, All India Builders Convention Jaipur, Rajasthan 26- 27 June 2008
- **Bioreactor landfill for Solid Waste Landfill Management**, Indo Italian International Conference on Green & Clean Environment; MIT, MPCB & Council of Scientific & Industrial Research, Pune 11- 13 March 2008
- **Design and Construction of Whitetopping Overlays on Bituminous Pavement – A Case study** International Conference on Transportation Planning and Implementation Methodologies for Developing Countries Advances in Civil Engineering I.I.T. Bombay,17 – 19 March 2008
- **Air Quality modeling using ANN- A Case Study Pune**, National Conference on Sustainable Water Resources Development & Management, Aurangabad, India, 1-2 Dec 2008
- **Applications of genetic programming in ocean engineering: a review**, international conference on Emerging Trends in Civil Engineering, Loni, India, 23- 24 Dec 2008
- **Environmental Impact of Landfill Leachate on Groundwater Quality- case study Pune**, Indo- Italian International Conference on Green & Clean Environment, MPCB & Council of Scientific

& Industrial Research, MIT. Pune 11 – 13 March 2008

- **Bioreactor Landfill for Municipal Solid Waste Disposal for Pune India**, International Conference on Emerging Trends in Engineering sponsored by University of Pune, Co-sponsored by American Institute of Chemical Engineers and Indian Institute of Chemical Engineers, Pravara Rural Engineering College, Loni 20- 22 Dec 2008
- **Evolution of mathematical model for positioning the forced hydraulic jump in a rectangular channel**, International Conference on Modeling and Simulation Canada, 1 to 6 March 2008
- **Hard and Soft Computing Approaches for Air Quality Modeling International**, Conference on Emerging Trends in Engineering, Loni, India. 5 & 6 April 2008
- **Water quality assessment of Katraj Lake**, Taal, World conference, Jaipur, India 24-28 May 2007
- **Water quality assessment of Pashan Lake Pune**, International Conference on Water Resources Engineering, Vellore, India 16 to 18 Feb 2007
- **Limnological study of Pashan lake, Pune (Maharashtra), India**, SVNIT & ISH, Surat organized international conference Hydro 2007, 22nd & 23rd Dec Surat, India
- **Ground Water Quality Assessment at Landfill Site Uralidevachi, Pune, India**, Hydro 2007, International conference ISH & SVNIT Surat 22nd & 23rd Dec 2007
- **Solid waste management; a critical review, with special reference to Pune city**, National Conference on Environmental degradation, and pollution control; P.S.G. college of Engg, Coimbatore, India. 28 – 29 Dec 2007
- **Comparative study of drag on various shapes of mudguards and its effect on energy consumption**, international conference on fluid mechanics and fluid power IIT, Mumbai 14 & 15 Dec. 2006
- **Advanced methodologies dealing with water management** International Conference on Environmental Geosciences CWC Pune India. 8 - 9 Feb 2006
- **Generation of e-water resource balance sheet with public participation for rural India** Hydro 2005; Siddaganga Institute of Technology Tumkur, Karnataka, India. 26 – 27 Dec 2005
- **Localized irrigation by clay emitters** International Conference on Hydraulic Engineering: Research and Practice (ICON-HERP-2004) IIT Roorkee; India 23- 24 Dec 2004
- **Micro irrigation: Zircii** International Conference: Emerging Technologies in Agricultural and Food Engineering IIT Kharagpur, India 17 -18 Dec 2004
- **Determination of lateral discharge through collapsible porous pipes using artificial neural network**, Hydro 2003; Indian Society of Hydraulics CWPRS, Pune India. 24-25 Dec 2003
- **Irrigation Water Management**, Hydro 2002, Indian Society of Hydraulics CWPRS, Pune India 27- 28 Dec 2002
- **Exudation: advancement in Micro Irrigation, a case study**, international symposium Aqua 2000, Pune, India 26 - 28 Nov. 2000
- **Analysis & Experimental Investigation of flow through Porous Pipes**, Hydro 1999 Indian Society of Hydraulics Nagpur, India 26- 27 Dec 1999
- **Remedial Measures for Agricultural Land Pollution**, Environmental Management in 21st Century: Problems and Perspectives University of Pune, India 18 & 19 Dec 1997

## Book Chapters

Insight into technologies for Phosphorus recovery from Municipal Wastewater treatment plants. In: Resource Recovery in Municipal Waste Waters (Volume 1) Elsevier (June 2023)

A Retrospective Cohort Study on Ambient Air Quality and Respiratory Morbidities. In: Chatterjee, U., Akanwa, A.O., Kumar, S., Singh, S.K., Dutta Roy, A. (eds) Ecological Footprints of Climate Change. Springer Climate. Springer, Cham. (June 2023) [https://doi.org/10.1007/978-3-031-15501-7\\_27](https://doi.org/10.1007/978-3-031-15501-7_27).

Evaluation of bioremediation by Endosulfan Degrading bacteria, In Bioremediation and Phytoremediation Technologies in Sustainable Soil Management, Volume 4: Degradation of Pesticide Sand Polychlorinated Biphenyls AAP CRC Press (Taylor & Francis Group) June 2022

Comparison of Numerical Models for Wave Structure Interaction Studies. In: Jha, R., Singh, V.P., Singh, V., Roy, L., Thendiyath, R. (eds) River and Coastal Engineering. Water Science and Technology Library, vol 117. Springer, (2022) Cham. [https://doi.org/10.1007/978-3-031-05057-2\\_28](https://doi.org/10.1007/978-3-031-05057-2_28)

Air quality forecasting using soft computing techniques August 2020  
DOI:10.1515/9783110628616-006 License BY-NC-ND 4.0 In book: Soft Computing (pp.105-130)

## Additional Information

**Date of Birth:** 2<sup>nd</sup> June  
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**Marital status:** Married,

**Children:** son (married)

## References

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