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Curriculum Vitae

Name : **Dr. Prashanth Reddy Hanmaiahgari**
Sex : Male
Nationality : Indian
Mobile Number : +91-943-420-0227
Email : hpr@civil.iitkgp.ernet.in; prashanthreddyh@gmail.com;



Work Experience

- 1. Assistant Professor (May 27, 2013 to present)**
Department of Civil Engineering
Indian Institute of Technology, Kharagpur
West Bengal, India, 721302
2. Associate Professor (Jan 21, 2013 to May 20, 2013)
Department of Civil Engineering
UPES, Bidholi, Dehradun,
Uttaranchal, India, 248007
3. Post-Doctoral Fellowship (2011 Jan 01 to Jan 18, 2013)
Department of Civil and Environmental Engineering
University of Windsor, 401 Sunset Ave., Windsor, N9B 3P4, ON, Canada
Advisor: Dr Ram Balachandar, Dr. Tirupati Boliseti
Research areas: River hydrodynamics and Turbulence
4. Post-Doctoral Fellowship (2007 Nov to 2010 Dec)
Department of Civil and Environmental Engineering
University of South Carolina, Columbia, SC 29208, USA
Advisor: Dr M Hanif Chaudhry
Research areas: Conduit flow and open channel flow

Education

- 1. PhD in Civil Engineering (2002 Aug-2006 Dec)**
IIT Madras, Chennai, India
Specialization: Hydraulics and Water Resources Engineering
Advisors: Dr BS Murty and Dr Shankar Narasimhan
Dissertation: Leak detection in gas pipeline networks using transfer function based dynamic simulation model
- 2. M.Tech in Civil Engineering (1999 Aug-2001 Jan)**
IIT Madras, Chennai, India
Specialization: Hydraulics and Water Resources Engineering
CGPA: 8.17/10
Dissertation: GVF profile computation in cyclic looped open channel networks
Advisor: Dr BS Murty
- 3. B.Tech First (Hons.) in Civil Engineering (1994-1998)**
NIT Kurukshetra (formerly known as REC Kurukshetra), Kurukshetra, India

Percentage Marks: 73.36

Research and Teaching interests

1. Hydrodynamics
2. Unsteady flows in pipelines and open channels
3. Sediment transport
4. Turbulence
5. Pipeline engineering

Publications

Books

1. Kaushik, Mrinal, Hanmaiahgari, Prashanth Reddy (2016), Essentials of Aircraft Armaments, Springer Briefs in Applied Sciences and Technology, Springer Singapore. (ISBN 978-981-10-2377-4, DOI 10.1007/978-981-10-2377-4)

International Journals

Under review (five papers are under review)

1. Soumen Maji, Hanmaiahgari, P. R., Minh Duc Bui and Peter Rutschman, "A Review on Turbulence Characteristics of Free Surface Flows in Vegetated Channels" (under review).
2. Nooka Raju Gompa, Prashanth Reddy Hanmaiahgari "Numerical Modeling of Sakuma Dam Reservoir Sedimentation" (under review)
3. H. Prashanth Reddy, Karney Brian, Kottam, R.R., and Kaushik, M. "Estimation of Linepack Pressures in Long Water Pipelines." (under review).
4. Silva-Araya, W. F., and H. Prashanth Reddy, "Applicability of One-Dimensional Unsteady Friction Models".
5. Mahananda, Hanmaiahgari, Kaushik and Pu, "Vertical distribution of turbulence structures in narrow open channel flows"

Published and accepted

6. S. Maji, D. Pal, P. R. Hanmaiahgari, and Gupta, "Hydrodynamics and turbulence in emergent and sparsely vegetated open channel flow." (accepted in Environmental Fluid Mechanics published by Springer)
7. Prashanth Reddy Hanmaiahgari, Cyrus RN and M Elkholy, "Identification of Partial Blockages in Pipelines by using Genetic Algorithms" (accepted in Sadhana, Springer)
8. Shivakumar Khaple, Prashanth Reddy Hanmaiahgari, Subhasish Dey and Roberto Gaudio (2017), "Interference of an Upstream Pier on Local Scour at Downstream Piers," Acta Geophys. 65:29-46, DOI 10.1007/s11600-017-0004-2

9. Hanmaiahgari, P. R., Vesselina Roussinova, Ram Balachandar (2017) "Turbulence characteristics of flow in an open channel with temporally varying mobile bedforms", *J. Hydrol. Hydromech.*, 65(1), 2017, 35-48, DOI: 10.1515/johh-2016-0044
10. S. Maji, D. Pal, P. R. Hanmaiahgari, and J. H. Pu, (2016) "Phenomenological Features of Turbulent Hydrodynamics in Sparsely Vegetated Open Channel Flow" accepted for publication in *Journal of Applied Fluid Mechanics*, Volume 9, Number 6, pp. 2865-2875.
11. H. Prashanth Reddy, and Ram Balachandar (2016) "Turbulence Characteristics of Flow over Non Equilibrium Three-Dimensional Mobile Dunes" 41(9), 1019-1037, (DOI:10.1007/s12046-016-0537-0).
12. Kaushik, M. and Hanmaiahgari, P. R., (2015), "Under expansion level effects on circular and elliptic sonic jets propagation," *American Journal of Fluid Dynamics*, 5(3A): 12-18, DOI: 10.5923/s.ajfd.201501.02. (open access)
13. Hanmaiahgari, P. R., (2015) Book Review of "Fluvial Hydrodynamics: Hydrodynamic and Sediment Transport Phenomena" Authored by Dr. Subhasish Dey, Springer Verlag, Berlin GeoPlanet: Earth and Planetary Sciences, 2014, 687 pp., £117, ISBN 978-3-642-19061-2, Water Management, ICE Proceedings. (available online)
<http://www.icevirtuallibrary.com/content/article/10.1680/wama.14.00153>
14. H. Prashanth Reddy, Chaudhry, M. H., and Imran Jasmin, (2014) "Computation of Gradually Varied Flow in Compound Open Channel Networks", *Sadhana*, Springer, 39(6),1523-1545 (DOI: 10.1007/s12046-014-0299-5).
15. Soumen Maji, Prashanth Reddy Hanmaiahgari and Subhasish Dey (2014), "Experimental studies of local scour in the pressurized OCF below a wooden log across the flow," *Sadhana*, Springer, 39(5),1245-1257 (DOI: 10.1007/s12046-014-0267-0).
16. H. Prashanth Reddy, Silva-Araya, W. F., and Chaudhry, M. H., (2012) "Estimation of Decay Coefficients for Unsteady Friction for Instantaneous Acceleration Based Models," *Journal of Hydraulic Engineering*, ASCE, 138(3), 260-271.
17. H. Prashanth Reddy, Shankar Narasimhan, S. Murty Bhallamudi, S. Bairagi, (2011) "Leak detection in gas pipeline networks using an efficient state estimator - Part-II: Experimental and field verifications" *Computers and Chemical Engineering*, Elsevier, 35(4), 662-670.
18. H. Prashanth Reddy, Shankar Narasimhan, S. Murty Bhallamudi, S. Bairagi, (2011) "Leak detection in gas pipeline networks using an efficient state estimator - Part-I: Theory and simulations" *Computers and Chemical Engineering*, Elsevier, 35(4), 651-661.
19. Chaudhry, M. H. and H. Prashanth Reddy (2011)"Mathematical modeling of lake-tap flows," *Journal of Hydraulic Engineering*, ASCE, 137(5), 611-614.
20. H. Prashanth Reddy, Chaudhry, M. H., Mahapatra, P. K.,"Modeling of periodic flows in pipelines by transfer function method," *Journal of Hydraulic Research*, IAHR, Vol. 48, No. 2 (2010), pp. 255–259.
21. H. Prashanth Reddy, Narasimhan, S., Bhallamudi, S. M., (2006), "Simulation and state estimation of transient flow in gas pipeline networks using a transfer function model," *Ind. Eng. Chem. Res*, American Chemical Society, Vol. 45, 3853-3863.
22. H. Prashanth Reddy, and S. Murty Bhallamudi, (2006), Closure to "Gradually Varied Flow Computation in Cyclic Looped Channel Networks," *J. of Irrig. and drain. Engg.*, ASCE, 132:189-189.
23. H. Prashanth Reddy, Bhallamudi, S. M., (2004), "Gradually varied flow computation in cyclic looped open channel networks," *J. of Irrig. and drain. Engg.*, ASCE, 130(5), 425-431.

Invited Book Chapters

1. Ram Balachandar and H. Prashanth Reddy (2011). Bed Forms and Flow Mechanisms Associated with Dunes, Sediment Transport - Flow and Morphological Processes, Faruk Bhuiyan (Ed.), ISBN: 978-953-307-374-3, InTech, Available from: <http://www.intechopen.com/articles/show/title/bed-forms-andflow-mechanisms-associated-with-dunes>
2. Ram Balachandar and H. Prashanth Reddy (2013). Scour Caused by Wall Jets, Sediment Transport Processes and Their Modelling Applications, Dr. Andrew Manning (Ed.), ISBN: 978-953-51-1039-2, InTech, DOI: 10.5772/54909. Available from: <http://www.intechopen.com/books/sediment-transport-processes-and-their-modelling-applications/scour-caused-by-wall-jets>
3. Debasish Pal, Bapon Halder and Prashanth R. Hanmaiahgari, (2017) “Comparison of Turbulent Hydrodynamics with and without Emergent and Sparse Vegetation Patch in Free Surface Flow”, Development of Water Resources in India, Editors: Garg, Vikas, Singh, Vijay, Raj, Vijay (Eds.) Water Science and Technology Library, Springer, ISBN 978-3-319-55125-8.
4. Debasish Pal, Minakshee Mahananda, Prashanth R. Hanmaiahgari and Mrinal Kaushik, (2017), “Experimental Investigation of Turbulent Hydrodynamics in Developing Narrow Open Channel Flow”, Development of Water Resources in India, Editors: Garg, Vikas, Singh, Vijay, Raj, Vijay (Eds.) Water Science and Technology Library, Springer, ISBN 978-3-319-55125-8.
5. Minakshee Mahananda, Prashanth R. Hanmaiahgari, (2017),“Lateral variation of turbulent features in developing and developed narrow open channel flow” , Development of Water Resources in India, Editors: Garg, Vikas, Singh, Vijay, Raj, Vijay (Eds.) Water Science and Technology Library, Springer, ISBN 978-3-319-55125-8.
6. Soumen Maji, Susovan Pal, Prashanth Reddy Hanmaiahgari and Vikas Garg, (2017), “Turbulent hydrodynamics along lateral direction in and around emergent and sparse vegetated open channel flow” , Development of Water Resources in India, Editors: Garg, Vikas, Singh, Vijay, Raj, Vijay (Eds.) Water Science and Technology Library, Springer, ISBN 978-3-319-55125-8.
7. Soumen Maji, Nooka Raju Gompa, Prashanth Reddy Hanmaiahgari and Vikas Garg, (2017), “Turbulent structures in open channel flow with emergent and sparse vegetation” , Development of Water Resources in India, Editors: Garg, Vikas, Singh, Vijay, Raj, Vijay (Eds.) Water Science and Technology Library, Springer, ISBN 978-3-319-55125-8.

8. International conferences

1. H. Prashanth Reddy, Vesselina Roussinova, Ram Balachandar and Tirupati Bolisetti (2012) "Flow and Turbulence Characteristics of Open Channel Flow Over a Mobile Bed" The biennial CSME International Congress: CSME 2012 Symposium on Fluid Dynamics and Applications, June 03-06, 2012, Manitoba
2. H. Prashanth Reddy, Vesselina Roussinova, Ram Balachandar and Tirupati Bolisetti (2012) "Higher order moments of velocity fluctuations in an open channel flow with Mobile Bed" Sep 5-7, IAHR River Flow 2012, San Jose, Costarica

3. H. Prashanth Reddy, Vesselina Roussinova, Ram Balachandar (2012) "Experimental studies on developing dunes" ASCE HMEM2012, Snowbird, Utah, Aug 12-15
4. H. Prashanth Reddy, Narasimhan, S., Bhallamudi, S. M. "Leak detection in gas pipeline networks using GLR method and Transfer function based dynamic simulation model", International interdisciplinary conference on sustainable technologies for environmental protection (ICSTEP 2006), Coimbatore, India, Jan 7-9, 2006, page no 86.
5. H Prashanth Reddy, Stratification of Heterogeneous Mixtures, Science and Scientist 2013, SIT, Bhubaneshwar, 1 day (2013)
6. Shiva Kumar Khaple, Prashanth Reddy Hanmaiahgari and Subhasish Dey, (2014) "Studies on the effect of an upstream pier as a scour protection measure of a downstream bridge pier," Sep 2-6, IAHR River Flow 2014, the 7th International Conference on Fluvial Hydraulics at EPFL Lausanne, Switzerland.
7. H. Prashanth Reddy and Soumen Maji, (2014), "Eddy Viscosity Turbulence Model for Incompressible Fluid Flow in Closed Conduits," Proceedings of the 19th IAHR-APD Congress 2014, September 21-24, Hanoi, Vietnam.
8. Minakshee Mahananda and Prashanth Reddy Hanmaiahgari (2015), "Turbulence Characteristics of Free Surface Flow over Mobile Bedforms Using Eulerian Approach," Proceedings of the 20th Hydro-2015 International Conference, December 17-19, 2015, Roorkee, India.
9. Maji, S., Pal, D., Mahananda, M. and Hanmaiahgari, P.R., (2016), "Comparison of turbulent features through upstream, interior and downstream of sparsely vegetated open channel turbulent flow," 8th IAHR River Flow 2016, pp 2297-2303, July 12-15, St. Louis, Mo, USA.
10. Pal, D., Soumen Maji, Hanmaiahgari, P. R., Minh Duc Bui, and Peter Rutschmann (2016), "Turbulent hydrodynamics through cross-sections at upstream, interior and downstream of sparse vegetation patch in open channel flow," IAHR 13th International Symposium on River Sedimentation (ISRS), September 19 – 22, 2016, Stuttgart, Germany.
11. Minakshee Mahananda and Prashanth Reddy Hanmaiahgari (2017), "Lateral Variation Of Turbulence In Developing Narrow Open Channel Flow" 37th IAHR World Congress, 13-18, August, 2017, Kuala Lumpur, Malaysia.
12. Khaple, S., Hanmaiahgari, P. R., and Dey, S. (2017). "Time variation of scour at downstream pier for two piers in tandem arrangement." *Proc., ISH 2017, 23-26 May 2017*, Jachranka, Poland.

National conferences

1. H. Prashanth Reddy, Narasimhan, S., Bhallamudi, S., M., "Dynamic analysis of gas pipeline networks using Transfer function model", National conference on Advances in Water Engineering for Sustainable Development (NCAWESD-2005), IIT Madras, India, May 16-17, 2005, pp. 215-222.
2. Debasish Pal, Bapon Halder and Prashanth R. Hanmaiahgari, "Comparison of Turbulent Hydrodynamics With And Without Emergent And Sparse Vegetation Patch in Free Surface Flow", National Conference on Water Resources & Hydropower 17th – 18th June, 2016, UPES Dehradun, India, pp 53.
<https://drive.google.com/open?id=0B4OavArzJYsRdG1qTmNw1B5WU0>
3. Debasish Pal, Minakshee Mahananda, Prashanth R. Hanmaiahgari and Mrinal Kaushik, "Experimental Investigation of Turbulent Hydrodynamics in Developing Narrow Open

Channel Flow”, National Conference On Water Resources & Hydropower 17th – 18th June, 2016, UPES Dehradun, India, pp 64.

<https://drive.google.com/open?id=0B4OavArzJYsRdG1qTmNwa1B5WU0>

4. Amgoth Ashok and Prashanth Reddy Hanmaiahgari (2017), "Scaling of wall shear stresses in emergent, sparse and rigid vegetated open channel flows with rough bed interior of the vegetation patch", National Conference on Water Resources Management in Coastal Regions organized by NIH during December 8-9, page 117, Kakinada, India.
5. Chitrangini Sahu and Prashanth Reddy Hanmaiahgari (2017), "Scaling of open channel flow velocities in emergent, sparse and rigid vegetation patch with rough bed interior of the patch," National Conference on Water Resources Management in Coastal Regions organized by NIH during December 8-9, page 118, Kakinada, India.

Technical report

1. Narasimhan, S., Bhallamudi, S. M., Reddy, H. P., (2006), *Development of Leak Detection Methodology in Gas Pipeline Networks*, Submitted to GAIL (India) Ltd. 166 pages.

PhD theses examined

1. “Investigation of Leachate Migration and its Mitigation using Biobarrier: Simulation and Experiments”, Submitted by Dr S Kanmani for the award of PhD degree in the Department of Civil Engineering, National Institute of Technology, Tirichirapalli, India.
2. “Routing of suspended sediment through gravel bed rivers” submitted by Mr. Nilav Kumar Karna for the award of PhD degree in the Department of Civil Engineering, Indian Institute of Technology Roorkee, India.
3. “Effect Of Infiltration On Sediment Transport In Irrigated Channels” submitted by Mr. Kapil Rohilla for the award of PhD degree in the Department of Civil Engineering, Indian Institute of Technology Roorkee, India.

Current Sponsored Research Projects

1. Title : Experimental modelling of flow characteristics in and around emergent vegetation patches
Principal Investigator : H Prashanth Reddy
Sponsor : SRIC, IIT Kharagpur

Few research proposals were already submitted to DST, OADB, GAIL, MoWR and ARDB of government of India for possible funding. Presently these projects are at advanced review stage.

Short term courses and workshops organized

1. Modelling of Fluvial Processes, June 08 2014 to June 18, 2014, (Principal Coordinator: Subhasish Dey, Co-Coordinator: H Prashanth Reddy) at IIT Kharagpur, sponsored by CEC, IIT Kharagpur.
2. A short-term course titled “Hydraulic Transients in Water Conveyance Systems ” was offered during Oct 07 -08, 2015. The fundamentals of hydraulic transients to assist the participants in learning the causes of surges in pipelines and how to protect the pipeline system will be taught in this course. (Principal Coordinator: Prashanth Reddy Hanmaiahgari) at IIT Kharagpur, sponsored by CEC, IIT Kharagpur.
3. A workshop titled “ Hydraulic Transients in Water Conveyance Systems ” was offered during Feb 26 -27, 2016. The fundamentals of hydraulic transients to assist the participants in learning the causes of surges in pipelines and how to protect the pipeline system will be taught in this course. (Coordinator: Dr. Milind Rajurkar and Dr. Prashanth Reddy Hanmaiahgari) at SGGS Institute of Engineering and Technology, Vishnupuri, Nanded, sponsored under TEQUIP-II.

Subjects taught

University of South Carolina, Columbia, SC, USA

1. Introduction to water resources engineering laboratory (ECIV 362L-001-Spring-2008) (31 students).
2. Introduction to water resources engineering laboratory (ECIV 362L-001-Spring-2009) (32 students).

IIT Kharagpur, India

Engineering drawing and computer graphics; Computer applications in free surface flow and applied hydrology; Design of hydraulic structures; Turbulent fluid flow; Case studies on computational hydraulics and sediment transport; hydraulics; Hydraulic Engineering Laboratory; and Water Resources Engineering Laboratory.

Student Guidance

PhD

1. Mr. Siva Kumar Kaple (Guide: Subhasish Dey, Co-guide: H Prashanth Reddy) (ongoing)
2. Mr. Soumen Maji (Guide: H Prashanth Reddy) (ongoing)
3. Ms. Meenakshi Mahananda (Guide: H Prashanth Reddy) (ongoing)
4. Mr. Susovan Pal (Guide: H Prashanth Reddy) (ongoing)
5. Mr. Gompa Nooka Raju (Guide: H Prashanth Reddy) (ongoing)

MTech

1. Ms. Priyanka Goutham (Guide: Subhasish Dey, Co-guide: H Prashanth Reddy) Topic: Mutual Interference of twin bridge piers on local scouring (completed 2014)
2. Mr. G. Raju (Guide: H. Prashanth Reddy) Topic: Modeling of reservoir sedimentation (completed 2015)

3. Mr. Bapan Halder (Guide: H. Prashanth Reddy) Topic: Experimental modeling of vegetation in in open channel flow. (completed 2016)
4. Ms. Chitrangini Sahoo 15CE61R05 (Guide: Dr. H Prashanth Reddy) Topic: Experimental modeling of hydraulically rough open channel flows (completed 2017)
5. Mr. Amgothu Ashok 15CE61R01(Guide: Dr. H Prashanth Reddy) Topic: Experimental modeling of hydraulically rough open channel flows (completed 2017)

BTech

1. Jaiswar Pradeep Kumar (10CE10022),Topic: Analysis of unsteady flow in a fire water network (completed)
2. Thogaru Manideep (10CE10059) Topic: Modeling of unsteady friction in closed conduits using convolution based methods (completed in 2014)
3. Daisy Kumari (10CE10016) Topic: Modeling of unsteady friction in closed conduits using convolution based methods (completed in 2014)
4. Hitesh Meena (11CE10018) Topic: Experiments in open channel flows (completed in 2015)
5. Mahendra Meena (11CE33002) Topic: Experiments in open channel flows (completed in 2015)
6. Piyush Singh (12CE30012), Topic, Numerical Modeling of Open Channel Flows (completed in 2016)
7. Ms. Gudipudi Lakshmi (13CE10018) Topic: Numerical Modeling of Steady State Flow in Water Distribution Networks (completed in 2017)
8. Mr. Sulabh Biswas (13CE10050) Numerical Modeling of Unsteady State Flow in Water Distribution Networks (completed in 2017)
9. G Chandan (14CE10017)
10. Bhalerao Parimal Chandrakant (14CE30012)
11. Rahul Kumar Meena (14CE10042)
12. Mr Sagardeep Debbarma (13CE10033)

Summer/Winter Interns (under graduates)

1. Mr. Parag Kumar Baro, NIT Silchar (2016 Summer)
2. Ms. Gayatri Sahoo, VSSUT, Burla (2016 Summer)
3. Ms. Mahe Farkhar, IIT KGP (2016 Summer)
4. Ms. Gudipudi Lakshmi, IIT KGP (2016 Summer)
5. Mr. Rahul Kumar Meena, IIT KGP (2016 Dec – 2017 January)

Awards and Honors

1. Selected for DAAD IIT Faculty Exchange Program (2015), visited Technical University Munchen, Germany during June-July 2015.
2. Received International Travel Support Scheme Award from the Department of Science and Technology (DST), Govt. of India, for attending the IAHR Riverflow 2016 Conference held at St Louis, Mo, USA, Jul 2016.
3. Marquis Who's Who World (2010).

Invited Talks

1. "Unsteady flows in Pipelines" at IIT Hyderabad, Date: Dec 27, 2013
2. "Unsteady flows in pipelines" at NIT Warangal, Date: Dec 20, 2013
3. "Fundamental experiments in sedimentation" at SIT Bhubaneswar, Date: Dec 08, 2013
4. "Sedimentation Experiments", 2nd International conference, Science and Scientist 2014, Nov 28-29, 2014, PB Siddhartha College of Arts and Science, Vijayawada, AP, India, page 60.
5. "A Review of Turbulence Characteristics of Free Surface Flows in Vegetated Channels," July 19, 2015, Hydraulic and Water Resources Engineering Laboratory, Technical University Munchen, Munich, Germany.

Lectures Delivered in Workshops

1. 3-day workshop on "Surge Analysis and Design of Water Conveyance Systems in Lift Irrigation Schemes", Organized by NIT Warangal, India, during June 18-20, 2014 .
2. 6-day short-term course on "Advances in Numerical Techniques for Hydraulics, Hydrology and Water Resources Management-I (ANST-HHWM-I)" during Feb. 23 – Feb. 28, Organized by school of water resources, IIT Kharagpur, India.
3. Lecture delivered on "Turbulence characteristics of free surface flow over mobile bedforms" in the short term course "ISWT/GIAN Hydrodynamics of Riverbed Erosion and Scour at Structures"during Dec 07-18, 2015, Coordinator: Prof. Subhasish Dey, Department of Civil Engineering, IIT Kharagpur, India.
4. Lecture delivered on "Similitude in Open Channel Flows" in the short term course "ISWT/GIAN Advances in Hydraulic Modeling" during Dec 05-16, 2016, Coordinator: Prof. Subhasish Dey, Department of Civil Engineering, IIT Kharagpur, India.

Training programs attended

1. I have undergone an intensive training program on "surge analysis program (SAP2) for water transmission pipelines" taught by Prof. K. Sridharan during August 27-31, 2007 conducted by center for continuing education, Indian Institute of Science, Bangalore, India.
2. I have attended a 3 day short course on "Numerical methods for hyperbolic equations with applications to shallow water flows" taught by Prof. Eleuterio F. Toro (July 13-15, 2009) organized by the National Center for Computational Hydroscience and Engineering, The university of Mississippi, Oxford, MS 38677, USA.

Editorial board memberships

1. Editorial board member of journal of Indian Water Works Association (JIWWA)
2. Associate Editor of Innovative Infrastructure Solutions (IISO) A Springer Open Journal

Reviewer for following International Journals

1. ASCE Journal of Hydraulic Engineering

2. Journal of Hydraulic Research (IAHR)
3. Acta Geophysica
4. Journal of Hydrology (Elsevier)
5. Canadian Journal of Civil Engineering
6. ASCE Journal of Irrigation and Drainage Engineering
7. Environmental Fluid Mechanics, Springer
8. Journal of Earth System Science, Springer
9. Flow Measurement and Instrumentation, Elsevier
10. Current Science
11. ISH Journal of Hydraulic Engineering, Taylor and Francis
12. Journal of Hydrology and Hydromechanics
13. Sadhana
14. Applied Mathematical Modeling

Memberships

1. Passed Engineer-In-Training (FE) NCEES South Carolina Board, USA (Certification No. 17990, Certification Date: 01/28/2011)
2. Member of IAHR (new ID 21131, old ID I-1585),
3. Member of ASCE (ID 984981)
4. Life member of Indian Water Works Association
5. Planning to appear for PE exam

Computer proficiency

Languages: proficient in C and C++ and FORTRAN 90;

Engineering Software: Matlab 7.0, EPANET, HEC-RAS, FLUENT 6.3.26, OpenFOAM 1.6
Sunrise PIPENET vision 1.5;

Plotting Software: Tecplot360, Origin 8.6;

Grid generation software: GAMBIT 2.4.6, Gridgen 15.11 and Matlab 7.0.