

Sreedhara B M

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ACADEMIC CREDENTIALS

Ph.D (Submitted)	Hydraulics and Structures	8.25	National Institute of Technology Karnataka (NITK), Surathkal-575025	2018
M. Tech	Computer Aided Design of Structures	81.58	University B D T College of Engineering, Davanagere – 577004	2013
B.E	Civil Engineering	74.59	Adichunchanagiri Institute of Technology, Chikkamagaluru - 577102	2011

PROFESSIONAL EXPERIENCE

Period	Institution/ Organization served	Post held/ Nature of Job
Feb 2013 to Nov 2013	Galagali Associates, Hubballi	Project Management Consultancy

AREAS OF RESEARCH INTEREST

- Hydraulics
- Scour and Erosion
- Applications of Soft Computing Techniques
- Sediment Transport
- Structural Engineering
- CFD and Numerical Modelling

PROJECT WORK

	Project Title	Affiliation
B.E	Study on Accident analysis in Chikkamagalur City (2011)	Adichunchanagiri Institute of Technology, Chikkamagaluru - 577102
M.Tech	“Simulation of effect of Seismic response on Integral Bridges using SAP 2000 ” (2013)	University B D T College of Engineering, Davanagere – 577004

CURRENT RESEARCH AND OBJECTIVES

My current research interest includes studies on the flow structure interaction (Bridge pier Scour) using different emerging of Artificial Intelligence (Soft Computing) techniques and Computational Fluid Dynamic (CFD) tools.

PROFESSIONAL BODY MEMBERSHIPS

Life member of Indian Society of Hydraulics (ISH) - 30.10.2017 (1347)

Life member of Soft Computing Research Society (SCRS) - 2017-11-09-501

Member of the International Association for Hydro-Environment Engineering and Research (IAHR) – (54047) April 2017

Student member of American Society of Civil Engineers (ASCE) – (11272115) Jan 2018

SUBJECTS HANDLED FOR UNDER GRADUATES

LABORATORY	<ul style="list-style-type: none">• Strength of Materials Laboratory,• Hydraulics Laboratory.
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AWARDS AND RECOGNITIONS

- Received an appreciation certificate for the contribution in organizing the “International conference on Water Resources, Coastal and Ocean Engineering (ICWRCOE-15)” organized by NITK Surathkal, held on 12th -14th March 2015.
- Received an appreciation certificate for the contribution in organizing the one day workshop on “Tsunami Threat and its Mitigation along Indian Coast” sponsored by TEQIP-II held on 2nd November 2015.
- Received an appreciation certificate for the excellent contribution during the NBA accreditation process of M. Tech (Marine Structures and Water Resources Engineering & Management) programmes held during the academic year 2016-2017 and in successfully achieving highest accreditation.
- Elected as a PhD, Department Representative in the Student Council during the year 2016-17.

TECHNICAL SKILLS

Analysis/ Modelling software	: Basic Mike-21, REVIT-09(Architecture), STAAD.Pro, AutoCAD, SAP 2000
Languages/ software products	: MATLAB
Tools	: MS Office, Origin

PUBLICATIONS

INTERNATIONAL JOURNALS

1. **Sreedhara, B. M.**, Rao, M., & Mandal, S (2018). Application of an evolutionary technique (PSO–SVM) and ANFIS in clear-water scour depth prediction around bridge piers. *Neural Computing and Applications*, 1-15. (<https://doi.org/10.1007/s00521-018-3570-6>).
2. **Sreedhara, B. M.**, Manu & Mandal, S. (2018). Estimation of live bed scour depth around different shapes of bridge piers using ANFIS and SVMR approach. *International Journal of Ecology & Development™*, 33 (3), 30-46. (ISSN 0972-9984 (Print); ISSN 0973-7308 (Online)).
3. Mailar, G., Sujay Raghavendra, N., Hiremath, P., **Sreedhara, B. M.**, & Manu, D. S. (2017). Sustainable utilization of discarded foundry sand and crushed brick masonry aggregate in the production of lightweight concrete. *Engineering Structures and Technologies*, 9 (1), 52-61. (<https://doi.org/10.3846/2029882X.2017.1279987>)
4. Mailar, G., Raghavendra, S., **Sreedhara, B. M.**, Manu, D. S., Hiremath, P., & Jayakesh, K. (2016). Investigation of concrete produced using recycled aluminium dross for hot weather concreting conditions. *Resource-Efficient Technologies*, 2 (2), 68-80. (<https://doi.org/10.1016/j.reffit.2016.06.006>)
5. **Sreedhara B M**, Sanooj A, Manu and S. Mandal (2016), “Simulation of Local Scour around Circular and Round Nosed Bridge Pier using REEF3D”, **International journal of Innovative Research in Science, Engineering and Technology**, Vol. 5, Special Issue 9, pp 137–142, (ISSN 2347-6710 (Print); ISSN 2319-8753 (Online)), (<http://dx.doi.org/10.5680/IJIRSET.2016.0505524>)

NATIONAL CONFERENCE

1. Gireesh Mailar, Mallesh M, Sujay Raghavendra N and **Sreedhara B M** “Modeling the seismic response of buried Hume pipe using Finite element analysis”, Proceedings of the “**First Annual Conference on Innovations and Developments in Civil engineering, ACIDIC-2014**” organised by NITK Surathkal, India from 19th -20th May 2014.

INTERNATIONAL CONFERENCE

1. **Sreedhara B. M.**, Geetha Kuntoji, Manu and S Mandal (2018), “PSO-SVM approach in the prediction of scour depth around different shapes of bridge pier in live bed scour condition”, **4th International Conference on Harmony search, Soft computing and Applications** held at BML Munjal University, Haryana, India, during 7-9th February.
2. **Sreedhara B M**, Manu, S Mandal (2017), “ Swarm intelligence based Support Vector Machine (PSO-SVM) approach in the prediction of scour depth around the Bridge pier”, **7th International Conference on Soft Computing for Problem Solving - SocProS 2017**, during December 23-24, 2017 held at Indian Institute of Technology Bhubaneswar, Bhubaneswar.
3. **Sreedhara B. M.**, Manu, S Mandal and Geetha Kuntoji (2017), “A numerical study on the effect of fluid structure interaction”, **3rd International Conference on the Status and Future of the World’s Large Rivers** held at Indian Habitat Centre (IHC), New Delhi, India, organized by NIH and IIT Roorkee, local organizing committee and the International Scientific committee, during 18-21st April.

4. **Sreedhara B M**, Manu and S Mandal (2016), “3-D Numerical Study on Time Development Local Scour around Circular Pier using CFD Tool REEF3D”, **International Conference on Trends and Recent Advances in Civil Engineering – TRACE 2016**, held at Amity University, Noida, India during August 11-12, 2016.
5. **Sreedhara B M**, Manu and S Mandal (2016), “CFD-3D modeling of local scour around circular pier with REEF3D”, **10th International Symposium on Lowland Technology (ISLT 2016)**, held at NITK, Surathkal, India during September 15-17, 2016.
6. **Sreedhara B M**, Manu, S Mandal (2016) “CFD modelling of local scour around round nosed Bridge pier with REEF3D”, **21st International Conference on Hydraulics, Water Resources, Coastal Engineering- HYDRO 2016**, organized by Central Water and Power Research Station (CWPRS), MoWR, GoI and the Indian Society of Hydraulics (ISH) Pune, December 18-20, 2016.
7. **Sreedhara B M**, Manu and Pruthviraj U (2015) “ Comparative Study on different Bridge Scour Monitoring Techniques: A Review”, **20th International Conference on Hydraulics, Water Resources and River Engineering- HYDRO 2015**, organized by Civil Engineering Department, IIT Roorkee, India, 17-19th December.

SCOPUS INDEXED BOOK CHAPTERS

1. **Sreedhara B M**, Manu and S Mandal (2018), “ Swarm intelligence based Support Vector Machine (PSO-SVM) approach in the prediction of scour depth around the Bridge pier”. *Advances in Intelligent Systems and Computing* with ISSN: 2194-5357 published in Springer Proceedings (Unde Publication).
2. **Sreedhara B. M**, Geetha Kuntoji, Manu and S Mandal (2018), “PSO-SVM approach in the prediction of scour depth around different shapes of bridge pier in live bed scour condition”, *Harmony Search and Nature Inspired Optimization Algorithms, Advances in Intelligent Systems and Computing* 741, (https://doi.org/10.1007/978-981-13-0761-4_37) (In press).

CONFERENCES/WORKSHOPS ATTENDED

- Short term coarse on “Design of Road Bridges” held during 09th -11th May 2014 at IIT Bhubaneshwar, India.
- National workshop on “Disaster Management and community resilience through unmanned Aerial Vehicle” held during 27th Feb – 1st March 2014 and sponsored by TEQIP-II at NITK Surathkal, Mangaluru.
- One day workshop on “Past, Present and Future Scenario of Marine structure”, held during 20th Feb 2017 and sponsored by TEQIP-II at NITK Surathkal, Mangaluru.
- Workshop on “Prakruthi infocus”, held during 9th January 2016, at NITK Surathkal, Mangaluru.
- Five day training course on “ training on Coastal and Marine modeling using MIKE 21 and LITPACK” held during 22nd -26th August 2016, NITK Surathkal, Mangaluru.
- Two day workshop on “Computational Marine Hydrodynamics”, held during 19th -20th January 2017 and sponsored by TEQIP-II at NITK Surathkal, Mangaluru.
- International Conference on Water Resources, Coastal and Ocean Engineering (ICWRCOE-15), 12th -14th March 2015, NITK Surathkal, Mangaluru.
- Pre-conference workshop on “Past, Present and Future Scenarios in Water Resources, Coastal and Ocean Engineering (ICWRCOE’15)”, 11th March 2015, NITK Surathkal, Mangaluru.

- Workshop on “Recent trends in system application as applied to Civil Engineering”, held on 9th January 2015, NITK Surathkal, Mangaluru.
- Workshop on “Tsunami threat and its mitigation along Indian Coast”, held on 2nd Nov 2015, NITK Surathkal, Mangaluru.
- Workshop on “Coastal Hydrodynamics and Modelling”, held during 7th Oct 2016 and sponsored by TEQIP-II at NITK Surathkal, Mangaluru.

PERSONALITY TRAITS

- Founder and Managing Trustee of “Basuru Marulasiddappa Charitable Trust ®”.
- Strong interpersonal and organizational skills.
- Excellent leadership and team player.
- Positive attitude.
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REFEREES

- Dr. Sukomal Mandal, Professor (Formerly Chief Scientist in CSIR-NIO Goa), Department of Civil Engineering, P E S University, Bengaluru Mob: +91-9900897444, Email: smandal12341@rediffmail.com
- Dr. Manu, Assistant Professor, Department of Applied Mechanics and Hydraulics, National Institute of Technology Karnataka, Mob: +91-9844087664, Email: manunitk77@gmail.com

PERSONAL PROFILE

Date of Birth	13 th April, 1990	
Parents	Father	Shri. B V Marulasiddappa (Agriculturist)
	Mother	Smt. Chitrambha (Housewife)
Marital Status	Single	
Religion/Caste	Hindu Lingayatha (OBC)	
Languages Known	English, Kannada, Hindi, Telagu.	
Aadhaar. No/ PAN. No		
Hobbies	Organizing functions, Traveling, Playing Badminton.	
Permanent Address	S/o B V Marulasiddappa Basur at post, Kadur Taluk, Chikkamagaluru District, Karnataka - 577116	

I do hereby declare that the above information is correct and true to the best of my knowledge.



(Sreedhara B M)

