

BIODATA

Dr. Parupalli Sridhar

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Professional Summary:

Expertise in Geoinformatics and presently working as Associate Professor in **Civil Engineering Department, Shri Vishnu Engineering College For Women, Bhimavaram**, Andhra Pradesh more than Ten years of experience in teaching and GIS Industry. A distinguished record of publications in academic journals. Commitment to helping students to develop their full potential in their studies. Guided 13 M. Tech (Geoinformatics) and 16 B. Tech civil engineering student projects. I earned a Doctorate in Spatial Information Technology from JNTUK, Kakinada (December 2017). My research works concentrated on Remote sensing and its applications, Watershed Management using RS&GIS techniques, Hydrological Assessment using SWAT (Soil and water assessment tool), Fuzzy logic approach. I served as a reviewer for a few peer-reviewed journals.

Work Experience:

- I am presently working as a Associate Professor in Civil Engineering Department, Shri Vishnu Engineering College for Women, Bhimavarm, since **November 2012**.
- Assistant Professor(Contract), JNTUK, Kakinada(February 2011 – October 2012).
- I worked as a project scientist in C-GARD, NIRD (May 2007- January 2011).
- I worked as a Research Assistant in the Water Technology Center (Nov 2006 – April 2007).
- I worked as a Project assistant in CSIT, JNTUH (June 2005 – Nov 2006).
- I worked as a GIS Engineer in Avineon India Ltd (May 2001 – Nov 2002).

Educational Credentials

Ph.D. – Civil Engineering - Spatial Information Technology (December 2017), Jawaharlal Nehru Technological University, Kakinada. (JNTUK), Kakinada.

Title: Remote Sensing Applications and GIS Techniques for Assessment and Management of Kaddam Watershed Using SWAT, Adilabad District, Telangana state, India.

M.Tech – Civil Engineering - Spatial Information Technology, Jawaharlal Nehru Technological University, Institute of science and Technology, Hyderabad, March 2006.

Degree in Civil Engineering, AMICE(I), Institution of Civil Engineers(India), ICEINDIA(I)

Degree in Mechanical engineering, Institution of Mechanical Engineers(India), AMIMECHE(I),IMEINDIA.

Teaching Accomplishments:

Subjects handled in M. Tech Geoinformatics, SVECW.

- Geographical Information systems (GIS)
- Digital Image Processing (DIP)
- Remote sensing (RS)
- Photogrammetry
- Remote sensing applications (RSA)
- Satellite Image interpretation Lab
- GIS Lab

Subjects handled in B. Tech Civil Engineering, SVECW.

- Remote sensing and GIS applications (RS&GISA)
- Management Science (MS)
- Intellectual Property Rights (IPR)
- Watershed management (WSM)
- GIS & CAD Lab
- AutoCAD Lab

Software Skills

Arc GIS 9.3, AutoCAD Map, ERDAS 8.7, Map Info.

Conducted Faculty/Teaching Development Activities

- AICTE sponsored one week online Short Term Training Programme (STTP) PHASE - III, coordinator for Soft Computing Techniques in Civil Engineering: Structures, Geotechnical, Remote Sensing and Transportation, 07th – 12th September, 2020.
- Faculty Development Programme (FDP) on Construction Project management (27th September – 1st October 2016) conducted as a coordinator.
- Faculty development Programme (FDP) on Remote sensing, GIS, and GPS applications in Civil Engineering, 12th-16th September 2016 conducted as a coordinator.

Other Activities were completed in the college (SVECW)

- Initiate Geographical Information Systems (GIS) Lab for undergraduate and postgraduates courses in the Civil engineering Department.
- Conducted a DGPS survey (Geospatial Mapping) to capture the tree species in the campus.
- Department coordinator TEQIP II, Website, ISTE events, and Student Counsellor activities
- Board of studies member for B.Tech Civil and M.Tech (Geo Informatics) 2014, 2018 and 2020 years.

Attended Conferences / Workshops / FDP

- **Hands-on Training for Remote sensing & Its Applications**, 25th-30th November 2019, Civil Engineering Department, JNTUCEK, Kakinada.

- Two weeks of training Programme on **Micro Wave Remote sensing applications**, 22nd April -03 May 2019, NRSC, Hyderabad.
- **Geographic Information Systems (GIS) methods for flood risk management**, 25th July-01st August, 2018, NIT, Warangal.
- **Open source Web GIS tools for Rural Development**, June 06-09, 2017, C-GARD, NIRD, Hyderabad.
- **10 day workshop on hydrologic modelling using SWAT model**, 14-23rd December 2015, IITH, Hyderabad.
- **3 – Day skill Development Programme on Soil and Water Assessment Tool (SWAT) modelling**, 6th - 08th July 2015, IST, Center for water resources, JNTUH, Hyderabad.
- National workshop on **Coastal Erosion & Environmental Challenges (CEEC)**, 6th and 7th March, 2015, JNTUK, Kakinada.
- International Conference on **Modelling tools for sustainable water resource management**, 26 - 29 December 2014, IIT Hyderabad.
- National conference on **sustainable water resources planning, management, and impact of climate change**, April 5 - 6, 2013, BITS Pilani, Hyderabad campus.

Professional Societies

- Life Member - Indian Society of Remote Sensing (**L-4248**).
- Life Member – Indian Society of Geomatics (**ISG-L-1981**).
- Life Member – Indian National Cartography Association (**LM-3062**).

Students Guided:

Ph.D: 1 (on Going)

Student name: Anil Kodimela, 1 (Co-Guide), Joined Year: 2020, ANNAMALAI UNIVERSITY Departemnet: Civil Engineering, Topic: Integrated Watershed Management Assessment using SWAT and Fuzzy Logic Approach.

M.Tech: 13

B.Tech: 16 Projects

Orcid id: <https://orcid.org/0000-0002-6152-5121>

Scopus Author ID: 57204122274

Researchers Id: ABI-6444-2020

Google Scholar Id: VXOBfcwAAAAJ&hl=en

Reviwer:

Review activity for Journal of The Institution of Engineers (India): Series A (2)

List of Publications

Peer-reviewed Journals

1. **Parupalli, S.**, Padma Kumari, K., & Ganapuram, S. (2019). Assessment and planning for integrated river basin management using remote sensing, SWAT model and morphometric analysis (case study: Kaddam river basin, India). *Geocarto International*, 34(12), 1332-1362. doi: 10.1080/10106049.2018.1489420. **IF: 3.889 (SCIE listed journal)**
2. **Sridhar, P.**, Ganapuram, S. Morphometric analysis using fuzzy analytical hierarchy process (FAHP) and geographic information systems (GIS) for the prioritization of watersheds. *Arab J Geosci* 14, 236 (2021). <https://doi.org/10.1007/s12517-021-06539-z>. **Impact Factor - 1.327. IF: 1.456 (SCIE listed journal)**

Scopus listed Journal

1. **P. Sridhar**¹, A.Siva Sena reddy², and K.Padma Kumari³. Spatial information Technologies based integrated spatial water harvest and storage location model for rainfed watersheds. *International journal of Earth sciences and Engineering*, ISSN 0974-5904, August 2012, PP 872-876. (**Scopus covered 2010 to 2016**).

International Conference Journals

1. Ramana Kollipara, V., Gunneswara Rao, T.D., Sridhar, P. (2022). A Study on Deformation Characteristics of Splice Connection in Steel Structures. In: Kumar, P.G., Subramaniam, K.V.L., Santhakumar, S.M., Satyam D., N. (eds) *Recent Advances in Civil Engineering. Lecture Notes in Civil Engineering*, vol 233. Springer, Singapore. https://doi.org/10.1007/978-981-19-0189-8_29
2. Challa, N.P., Sridhar, P., Shyam Mohan, J.S. (2022). A Machine Learning Perspective for Remote Sensing. In: Kumar, P.G., Subramaniam, K.V.L., Santhakumar, S.M., Satyam D., N. (eds) *Recent Advances in Civil Engineering. Lecture Notes in Civil Engineering*, vol 233. Springer, Singapore. https://doi.org/10.1007/978-981-19-0189-8_45.

National Journals

1. K. Ramya¹, **P. Sridhar**², Assessment Of Land Use / Land Cover (LU/LC) Changes In Kaddam Watershed, *International Journal of Engineering Research and Application*, ISSN: 2248-9622 Vol. 8, Issue 11 (Part -I) Nov 2018, pp 22-26.
2. Ankala Mani Deepika¹, **P. Sridhar**², Assesment OF Soil Loss IN Wyra Watershed using Remote Sensing and GIS, *International Journal of Engineering Science Invention Research & Development*; E-ISSN: 2349-6185, Vol. IV, Issue II, AUGUST 2017.
3. B. Anusha¹, **P. Sridhar**², Mapping Land use / Land cover of west Godavari District using NDVI. Techniques and GIS, *IJARIE-ISSN-2395-4396*, Vol 3, PP 290-297. 2017.

4. Evancy Grace¹, **P. Sridhar**², Monitoring of Degraded lands in Paderu mandal using GIS techniques, IJARIE-ISSN-2395-4396, Vol 3, PP 464-472, 2017.
5. VH Jaya Madhuri¹, **P. Sridhar**². Application of remote sensing and GIS in Land use/land cover Mapping and change detection in Hyderabad, India, IJARIE-ISSN-2395-4396, Vol 3, 2017.
6. S. Sravya¹, **P. Sridhar**². Land use and Land cover change detection for Delhi region through remote sensing approach, International Journal for scientific research and development, ISSN-2321-0613, Vol.4, PP 54-57, 2017.
7. Ambati Vani¹, **P. Sridhar**². Site suitability for artificial groundwater recharge using remote sensing and GIS for Kakinada revenue division, Global scholastic research journal of Multidisciplinary, ISSN: 2349-9397, Vol.10, PP12-22, 2016.
8. D Aruna¹, **P. Sridhar**². Delineation of Groundwater Potential Zones in various mandals of East Godavari District using Remote sensing and GIS techniques, International Journal for scientific research and development, ISSN (online): 2321-0613 Vol.4, PP 198-202, 2016.
9. P. Mynar babu¹, G. Jaisankar², V. Sreenivasulu³, and **P. Sridhar**⁴. LULC analysis with reference to Aquaculture in the part of Krishna district using Remote Sensing and GIS Techniques. International Journal of Engineering Science and Technology (IJEST), ISSN: 0975-5462, Vol. 6 No.5 May 2014.
10. **P. Sridhar**, K. Srinivasa Reddy, K. Padma Kumari. Computation of Morphometric Parameters of Kadam Reservoir Catchment Area, Adilabad District, Andhra Pradesh Using G.I.S. Tool. Environment & Ecology 31 (2) : ISSN : 0970-0420, 444—448, April—June 2013.
11. Reddy, K. S.; **Sridhar, P.** Priority of soil conservation measures Bhaskar Rao Kunta for micro-watershed based using sediment yield index and Geographical Information System (GIS) watershed, Nalgonda district, India. ISSN: 0970-0420, Environment and Ecology, Vol.31 No.2 pp.592-595, 2013.
12. **P. Sridhar**, A. S. Chandra Bose, K. Padma Kumari, K. Srinivasa Reddy. Identification and Priority of Sub-Watersheds for Soil Conservation Measures, Based on Sediment Yield Index, Using G.I.S. Tool: Kadam Watershed of Adilabad District, India. Environment & Ecology 30 (3C) : ISSN : 0970-0420, pp 1122—1127, July—September 2012.
13. S. Chandra Bose¹, **P.Sridhar**², MVSS Giridhar³, and K.Viswanadh⁴. Morphometric Analysis at Miniwatershed Level using GIS. International Journal of Civil Engineering Research. ISSN 2278-3652 Volume 3, Number 3 (2012), pp. 157-171.
14. Padma Kumari. K¹, Hasmath Jahan², Subbarao. V³, **Sridhar. P**⁴. Shoreline morphometric change analysis using Remote sensing and GIS in the coastal part of

East Godavari District, Andhra Pradesh, India. International Journal of Civil Engineering applications Research – IJCEAR, Vol 03, Issue 02, May-Aug 2012, PP (129-136).

15. A.S.Chandra Bose¹, **P. Sridhar**², MVSS Giridhar³, and G.K.Viswanadh⁴. Watershed delineation and stream network analysis using GIS International Journal of Watershed Engineering. VOL – 1, ISSUE – 1.
16. **Sridhar. P**¹, Chandra Bose. A. S², Giridhar. M. V. S. S³, Viswanadh G. K⁴. Prioritization of mini watersheds based on morphometric analysis using GIS International journal of geomatics and geosciences, ISSN 0976 – 4380, Volume 3, No 2, 2012, PP (314-320).
17. Padma kumari. K¹, Jnaneswari. D², SubbaRao. D. V³, **Sridhar. P**⁴. Applications of Remote sensing and Geographical information system techniques on Geomorphological mapping of coastal part of East Godavari district. Andhra Pradesh, India. International Journal of Engineering Science and Technology (IJEST). ISSN: 0975-5462 Vol. 4 No.10 October 2012, pp 4296-4301.

Published in National conferences

1. **Parupalli Sridhar**¹ and K. Padma Kumari², Quantification of Morphometric Characterization and Prioritization of Watersheds using Multi Criterion Decision making and GIS Approaches. Two Day National Conference on Water, Environment & Society (NCWES - 2014), 30th June and 1st July, 2014, pp 63-69.
2. A.S.Chandra Bose¹, G.K.Viswanadh², M.V.S.S.Giridhar³, and **P.Sridhar**⁴. Assessment of Land use Land cover changes in Middle Godavari (g-5) sub basin of river Godavari using rs and gis. XIX International Conference on Water Resources CMWR 2012 University of Illinois at Urbana-Champaign June pp 17-22, 2012.

References

1. Dr. R. Pradeep Kumar
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 2. Dr. K. Padma Kumari
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IST, JNTUK, Kakinada
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Personal Information

Fathers Name: P. RamaRao

Martial status: Married

Date of Birth: 10-04-1971

Languages Known: Telugu, Hindi, English

(Dr. P. Sridhar)