

# VINAY KUMAR GADDAM



**Designation** : Associate Professor  
**E-Mail ID** : [vinaygaddam@vrsiddhartha.ac.in](mailto:vinaygaddam@vrsiddhartha.ac.in)  
**Contact at** : Department of Civil Engineering,  
 Velagapudi Ramakrishna Siddhartha  
 Engineering College,  
 Kanuru, Vijayawada, Andhra Pradesh  
 520007.

## Education

- Ph. D (Civil Engineering), 2018, V.T.U, Belgaum
- M.Tech (Remote sensing and GIS), 2011, DGRL (SASE) and Bharathair University

## Experience

**Experience-Academic/Research: 13 Years**

University/ College	Designation	Period
Velagapudi Ramakrishna Siddhartha Engineering College, Vijayawada	Associate Professor	31 <sup>st</sup> Mar 2023 – Till Date
Dhanekula Institute of Engineering and Technology	Associate Professor	April 2019- Mar 2023
National Center for Polar and Ocean Research, Ministry of Earth Science	Research Scientist	Aug-2015 – Mar 2019
Divecha Center for Climate Change, Indian Institute of Science, Bangalore	Research Fellow	Jan 2011- Jul 2015

## Honors and Awards

- Nehru-Grimsson Fellowship by President of Iceland
- Vishwakarma Award by CIDC, Member of Niti AAyog

## Research Interests

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### Broad Area of Research :

Remote Sensing and GIS, Environmental Engineering

### Courses Taught

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- Remote Sensing and GIS
- Water Resources Engineering
- Environmental Engineering
- Air pollution and climate change

## Research Profile

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### Publications

The recent publications and research contributions can be viewed from the following URLs

<b>ORCID</b>	<a href="https://orcid.org/0000-0002-9400-1893">https://orcid.org/0000-0002-9400-1893</a>
<b>Research Gate</b>	<a href="https://www.researchgate.net/profile/Vinay-Kumar-43">https://www.researchgate.net/profile/Vinay-Kumar-43</a>
<b>Google scholar</b>	<a href="https://scholar.google.co.in/citations?user=9PcAZxEAAAJ&amp;hl=en">https://scholar.google.co.in/citations?user=9PcAZxEAAAJ&amp;hl=en</a>

### Recognized Research Supervisor

S.No.	Department	University
01.	Environmental Engineering	Central University of Sikkim

### Funded Research Projects

<b>Completed</b>	1. TBI-MSME worth 37.5 lakhs 2. NHAI pavement analysis- 3 lakhs
<b>Applied</b>	Two in process

## Publications

S.No	Title	Journal	Year	Vol.	Page No.	ISSN No.	Impact Factor	Whether you are the First/Corresponding Author	Journal No.
1	Estimation of glacial retreat and mass loss in Baspa basin, Western Himalaya	Spatial information Research - Springer Nature	2016	24-3	257-266	2366-3294	2.06	FIRST AUTHOR	41324
2	Reconstruction of Specific mass balance for glaciers in Western Himalaya using Seasonal Sensitivity Characteristic (s)	Journal of Earth System Science- Springer Nature	2017	126-4	55	0973-774X	2.045	FIRST AUTHOR	12040
3	Mass balance estimation using geodetic method for glaciers in Baspa basin, Western Himalaya	Current Science- Indian Academy of Sciences	2017	113-3	486-492	0011-3891	1.169.	FIRST AUTHOR	-
4	Assessment of snow-glacier melt and rainfall contribution to stream	Environmental Monitori	2018	190	154	1573-2959	3.420	First author	10661

	runoff in Baspa Basin, Indian Himalaya	ng and Assessm ent- Springer Nature							
5	Assessment of the Baspa basin glaciers mass budget using different remote sensing methods and modeling techniques,	Geocarto Internatio nal- Taylor and Francis	2019	1010	6049	1752-0762	4.889	First author	-
6	The effect of black carbon on reflectance of snow in the accumulation area of glaciers in the Baspa basin, Himachal Pradesh, India	The Cryosphe re Discussio ns	2013	7-2	2304-2317	1994-0440	1.5	SECOND AUTHOR	-
7	Observed spatio-temporal changes of winter snow albedo over the north- west Himalaya.	Internatio nal journal of climatolo gy	2017	37-5	2304-2317	1097-0088	4.069	Coauthor	-
8	Applications of SPOT- 7 tri-stereo imagery in deriving the surface topography and morphological changes of glaciers in Indian Himalaya	Geocarto Internatio nal- Taylor and Francis	2019	36-13	1512-1532	1752-0762	4.889	First author	-
9	Reconciling high glacier surface melting in summer with air temperature in semi arid zone of Western Himalaya	Water MDPI	2019	11-8	1561	2073-4441	3.53	Co-author	-
10	Moisture sources for precipitation and hydrograph components of the Sutri Dhaka Glacier Basin, Western Himalayas	Water MDPI	2019	11-11	2242	2073-4441	3.53	Co-author	-

11	Assessment of runoff in Chandra river basin of	Environmental	2022	194	145	1573-2959	3.420	First author	10661
	Western Himalaya using Remote Sensing and GIS Techniques	Monitoring and Assessment- Springer Nature							
12	Application of "OTSU" – an image segmentation method for differentiation of snow and ice regions of glaciers and assessment of mass budget in Chandra basin, Western Himalaya using Remote Sensing and GIS techniques	Environmental Monitoring and Assessment- Springer Nature	2022	194	5	1573-2959	3.420	First author	10661
13	Assessment of mass balance using AARTI method	Environmental Science and Pollution Research - Springer Nature	2023	-		-	5.19	First author	11356
14	Tropical Cyclone 'Helen' Triggered Submarine Slope Failure in the Bay of Bengal in November 2013	Science Advances- Nature	2023	-		-	14	Co- author	
15	Analysis of spatio-temporal variations in snow cover over Western Himalaya	SPIE-Remote Sensing	2016	98781F	633	-	0.4	First author	-
16	Spatio-temporal changes observed in supra-glacial debris cover in Chenab	SPIE-Remote Sensing	2016	98772A	993	-	0.4	First author	-

Basins, Western Himalaya								
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## Patents

Granted	0
Published	3
Applied	Nil

## Invited Talks

No. of Invited Talks	
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## Professional Service : Editor/Reviewer

1. Remote sensing- MDPI,
2. Scientific Reports- Nature
3. Environmental Management- Springer Nature
4. Journal of Hydrology, Elsevier
5. Journal of Remote sensing applications, society and Environment
6. Journal of Spatial Information Research- Springer Nature
7. Science of Total Environment- Elsevier

## Professional Bodies Membership Details

1	Chartered Engineer, Civil Engineering - Indian Institute of Engineers, Kolkata
2	Associate member of Indian Institute of Engineers, Kolkata
3	Life Member of Indian Society of Remote Sensing, Dehradun (Bangalore Chapter, No. 373)
4	Life Member for International Association of Hydrological Sciences (No. 13780)
5	Annual Member for International Glaciological Society (No. 00008798)
6	Life Member for International Association of Engineers, Taiwan (No. 151790)
7	Life Member for International Society for Development and Sustainability, Japan (No. M173305).
8	Life member of Indian Concrete Institute

Dr. Vinay Kumar Gaddam