

Deepak Kumar

Research Scientist

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EDUCATION

Doctor of Philosophy (PhD), Solar Energy Resource Assessment using Geospatial Technology, [Central University of Karnataka](#), India [2012-2016].

Master of Science (MSc), Remote Sensing and GIS, [Central University of Karnataka](#), India [2010-2012].

Bachelor of Technology (BTech), Information Technology, [Biju Patnaik University of Technology](#), India [2005-2009].

ABOUT

Dr Deepak Kumar is an academic research professional with around 10 years of experience. Dr Kumar joined at the [Center of Excellence in Weather and Climate Analytics](#), Atmospheric Science Research Center (ASRC) as a Research Scientist in August 2022. Before joining ASRC, he has been associated with [Amity University Uttar Pradesh \(India\)](#) as a full-time Assistant Professor from 2016 and has been revisiting a wide range of issues associated with traditional research activities in the intersection area of *Geospatial Sciences, Climate Sciences, and Computational Sciences* to utilise the technology for interdisciplinary research in the domain of *Energy, Environment, Climate, Cities and Sustainability (SDG 7,10,11,13)*. He has research interest in the allied area urban energy sustainability, urban remote sensing, and urban microclimate analysis. He has completed two government-sponsored research projects namely "*Hybrid Urban Landscape Analysis for Green Smart Cities through Geospatial Technology*" sponsored by the [Science and Engineering Research Board](#), Department of Science and Technology, Government of India, and "*Meta-sensing of the urban footprint from airborne synthetic aperture radar (ASAR) data*" sponsored from [Space Applications Centre \(ISRO\)](#), Ahmedabad, Gujarat, India as a sole principal investigator.

Dr Kumar has led a cross-functional research team for project development, management, laboratory setups, and supervision, along with academic research training for undergraduate, postgraduate, and PhD Students and fellow researchers. He has reviewed more than 170+ research articles as an ad-hoc/ adjunct/ invited reviewer or editorial board member for high-impact factor journals published by IEEE , Elsevier, Springer Nature, Taylor & Francis Group, Wiley, SAGE , Emerald, MDPI. He has supervised 04 PhD Students and 29 Postgraduate students. He holds 05 patents, 01 copyright and has authored or

co-authored more than 45+ peer-reviewed research publications in a high-impact web of science/Scopus-indexed journals by Elsevier, Springer, Taylor & Francis, Emerald, SAGE, and Wiley publications along with 15+ Chapters, 04 Books.

He is a member of the [IEEE Geoscience and Remote Sensing Society/ Standards Committee \(GRSS/SC\)](#), [International Society for Urban Informatics \(ISUI\)](#), [American Geophysical Union \(AGU\)](#), [European Geosciences Union \(EGU\)](#), [American Meteorological Society \(AMS\)](#), [International Association for Urban Climate \(IAUC\)](#), [American Association of Geographers \(AAG\)](#), [International Geographical Union \(IGU\)](#), [International Geographical Union \(IGU\) Commission on Modeling Geographical Systems Commission \(MGSC\)](#), [International Society for Photogrammetry and Remote Sensing \(ISPRS\)](#), [International Union for Conservation of Nature \(IUCN\)](#), [International Geographical Union \(IGU\) Commission on Research Methods in Geography](#), [Global Land Programme \(GLP\)](#), [Indian Society of Remote Sensing \(ISRS\)](#), [Indian National Cartographic Association \(INCA\)](#), [Professional Engineer of Engineering Council of India](#), [Indian Meteorological Society \(IMS\)](#), [Indian Science Congress Association \(ISCA\)](#), [REN21 Secretariat](#), [International Association for Promoting Geoethics \(IAPG\)](#) etc.

He is Guest Associate Editor of research topic entitled [AI and Data Analytics for Climate Data Management](#) in three journals namely [Frontiers in Environmental Science](#), [Frontiers in Ecology and Evolution](#), and [Frontiers in Earth Science](#) through [Environmental Informatics and Remote Sensing](#) section. He is also special Issue Lead Editor on the topic entitled [Novel Remote Sensing Technologies for Natural Hazard Management \(NovReST4NHM\)](#) in [Environmental Science and Pollution Research](#) Journal published by [Springer Nature Switzerland AG](#), Article Editor in [SAGE Open](#) published by [SAGE Publications Inc](#), [Editorial Board Member in PLOS Climate](#) till Jan 2023, Scientific Committee Member of the 3 Conference of the [Arabian Journal of Geosciences \(CAJG\)](#), Editorial Board Member in [Journal of Oil and Gas Research](#), and Member of Editorial Board of [Satellite Oceanography and Meteorology \(SOM\)](#). He has travelled to Sweden and Austria as a sponsored academic researcher.

AREAS OF EXPERTISE/ RESEARCH INTERESTS

- Urban Heat Islands, Urban Microclimatology, and Climate Change
- Urban Energy, Environment, Infrastructure, Planning, and Management
- Energy Security, Smart Energy, Economics, Management, and Integration
- Remote Sensing and Geoinformatics for Energy, Environment, and Climate Change
- Remote Sensing Observations, Applications and Analysis
- Spatio-Temporal Data Management, Analytics and Visualization

PUBLICATIONS

Total of over 45 peer-reviewed publications in journals, 15 book chapters, and 04 Books.

[Deepak's ORCID Record Page](#)