

# Faculty Profile

## Department of Geoinformatics

<b>Name:</b>	Dr. Arvind Chandra Pandey	
<b>Designation:</b>	Professor (Geoinformatics)	
<b>Additional role/ responsibility:</b>	Dean School of Natural Resource Management (SNRM)	
<b>Educational Qualification:</b>	1. Ph.D. (Himalayan Geology) University of Delhi 2. M.Sc. (Applied Geology) University of Delhi 3. PGD (RS&GIS) IIRS (DOS)	
<b>Awards/ recognition:</b>	<ol style="list-style-type: none"> <li>1. NASA-SERVIR Fellowship recipient (2014)</li> <li>2. Ocean Teacher Global Academy, Universiti Malaysia Terengganu, training recipient (2016)</li> <li>3. Best Environmentalist Award (2021) by Environmental and Social Welfare Society, Khajuraho, India Accredited by Niti Ayog, Gol.</li> <li>4. Best Researcher Award, CUJ- 2021-22</li> <li>5. Best Researcher Award, CUJ- 2022-23</li> </ol>	
<b>Area of Interest:</b>	Natural hazards Assessment (landslides and floods), Forest Mapping and forest fire risk, Water Resource Management, groundwater targeting, Arsenic and fluoride contamination, Land degradation & Waterlogging, Agriculture drought monitoring, Coastal Hazards and climate change impacts, Urban environment, Desertification, Glacier-Permafrost studies in Himalayas, etc.	
<b>Courses Taught:</b>	Geoinformatics applications in Geosciences, Water Resource & Hydrology, Cryosphere studies, Natural Resource Management, Photogrammetry and Image Interpretation, Disaster Management	
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<p><b>Brief introduction:</b> Dr. A.C. Pandey is Professor in the Department of Geoinformatics, and present Dean School of Natural Resource Management (SNRM) Central University of Jharkhand (CUJ), Ranchi. He was former Head, Dept of Geoinformatics (2013-2020) and Dean, School of Natural Resource Management (2014-</p>		

2017) in CUJ. He is Coordinator (CUJ) for ISRO, EDUSAT Programme since 2013. He previously served as Associate Professor (Remote Sensing) in Birla Institute of Technology, Mesra, Ranchi, for a decade (2004-2013) and as Research Scientist in Department of Science & Technology, GoH, Chandigarh, for seven years (1997-2004). He acquired Ph.D. degree in Geology from Department of Geology, University of Delhi in 2001. He has been working in diverse application areas of Geoinformatics viz., Water Resources, Glaciology, Permafrost, Urban Environment, Forestry, coastal hazards, flood risk, drought mapping etc. He has 12 Ph.D. and 80M.Tech/M.Sc. thesis completed under his guidance. He has more than 138 publications in refereed international/national journals/Books and 04 edited books to his credit. He is recipient of NASA-SERVIR Fellowship in 2013 to work on Himalayan glaciers in Zaskar Valley, J&K. He has completed many national projects as PI and Co-PI from IIRS (DoS), SAC-ISRO, CGWB, DST-Gol and MoEF. He recently completed 05 ISRO projects as PI/Co-PI in the area of Forest Health Mapping (Kerala), Flood Mapping (Kosi), Mineral prognostication (Jharkhand), Forest Biomass Estimation (M.P.), Forest Gross Primary Productivity Mapping (Jharkhand) and presently working on Permafrost Mapping in Uttarakhand Himalaya, Climate Change impacts on Monasteries in High Altitude Desert regions of India.

<b>Administrative responsibilities (with active period) With duration:</b>	<ol style="list-style-type: none"> <li>1. Head, CLRM Jan. 2014 – 2020</li> <li>2. Dean, School of NRM Jan 2014-April 2017, Sept 2022-continuing</li> <li>3. Registrar (In charge)- 29 June 2015- 19 Sept. 2015</li> <li>4. Chairman (Board of School-NRM)- Jan 2013- April 2017, Sept 2022-continuing</li> <li>5. Chairman (Borad of Studies)- Jan 2013-Till date</li> <li>6. President Indian Society of Geomatics (ISG, SAC-ISRO)- Ranchi Chapter since 2018-till</li> </ol>
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<b>Collaboration:</b>	IIRS (DoS), SAC-ISRO, CGWB, DST-Gol and MoEF
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<b>Articles Published/ Accepted:</b>	<p><b>Year wise:</b> Projects details, Research publications etc.</p> <p><b>Project (Completed/ Ongoing)</b></p> <ol style="list-style-type: none"> <li>1. <b>Name:</b> Retrieval of biophysical parameters and estimation of gross primary productivity in Indian forests using GISAT Co- PI  <b>Agency:</b> SAC, ISRO  <b>Duration:</b> March 2017-Dec 2020</li> <li>2. <b>Name:</b> Airborne Hyper spectral data forest health and Biomass Estimation in Sholayar RF Kerala, Co- PI  <b>Agency:</b> SAC, ISRO (AVIRIS)  <b>Duration:</b> Dec. 2016-March 2020</li> <li>3. <b>Name:</b> Detailed lithological, structural and geomorphological mapping and modelling for mineral prognostication in parts of Singhbhum Shear Zone, Jharkhand, India using Airborne L&amp; S bands SAR images, PI.  <b>Agency:</b> SAC, ISRO (NISAR)  <b>Duration:</b> May 2017-March 2020</li> <li>4. <b>Name:</b> Flood Hazard and vulnerability mapping in Kosi Flood and climate change implications, PI.  <b>Agency:</b> MoEF, Gol  <b>Duration:</b> Approved on 2013-14 (funds not received)</li> <li>5. <b>Name:</b> Monitoring and Mapping of Forest Communities with special reference to</li> </ol>
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Invasive Plant Species using AVIRIS – NG, CO-PI.

**Agency:** SAC, ISRO (AVIRIS)

**Duration:** Dec. 2016-March 2020

6. **Name:** Monitoring spatio-temporal dynamics of Above Ground Biomass in forests ecosystems using Airborne L & S band SAR images CO-PI

**Agency:** SAC, ISRO (NISAR)

**Duration:** May, 2017-March 2020

7. **Name:** Flood prognosis and inundation mapping using Airborne SAR (L & S band) images, CO-PI

**Agency:** SAC, ISRO (NISAR)

**Duration:** Approved on 29th May, 2017

8. **Name:** Permafrost destabilization induced mass wasting vulnerable zones modelling in higher Himalayan regions (Bagirathi-Alaknanda valley) Snow cover climate terrain interactive mechanism employing deep learning technique. PI

**Agency:** DMSP-IIRS-ISRO

**Duration:** April 2022-March 2025

9. **Name:** Field based 3D laser Scanner Structural mapping and monitoring of Buddhist Monasteries for conservation planning incorporating natural hazards in parts of Lahaul Spiti Ladhak region of India, PI.

**Agency:** SERB-DST, GOI

**Duration:** April 2023- March 2026.

#### Patent

1. Nil

#### Research publications: 138

##### Articles in Journals (Published/ Accepted)

#### 2024

- Kumar, A., Pandey, A. C., & Diksha. (2024). Chapter 15—Geoinformation for urban Geoenvironmental hazard-risk and vulnerability assessment. In A. Kumar, P. K. Srivastava, P. Saikia, & R. K. Mall (Eds.), *Earth Observation in Urban Monitoring* (pp. 309–338). Elsevier. <https://doi.org/10.1016/B978-0-323-99164-3.00010-0>

#### 2023

- Ahmad, T., Pandey, A. C., Kumar, A., & Tirkey, A. (2023). Understanding the role of surface runoff in potential flood inundation in the Kashmir valley, Western Himalayas. *Physics and Chemistry of the Earth, Parts A/B/C*, 131, 103423. <https://doi.org/10.1016/j.pce.2023.103423>
- Bar, S., Parida, B. R., Pandey, A. C., Shankar, B. U., Kumar, P., Panda, S. K., & Behera, M. D. (2023). Modeling and prediction of fire occurrences along an elevational gradient in Western Himalayas. *Applied Geography*, 151, 102867. <https://doi.org/10.1016/j.apgeog.2022.102867>
- Basheer Ahammed, K. K., Pandey, A. C., Parida, B. R., Wasim, & Dwivedi, C. S. (2023). Impact Assessment of Tropical Cyclones Amphan and Nisarga in 2020 in the Northern Indian Ocean. *Sustainability*, 15(5), Article 5.

<https://doi.org/10.3390/su15053992>

- Bhattacharjee, S., & Pandey, A. (2023). Estimating thickness of Zemu glacier, Sikkim (India) using ice-flow velocity approach: A geoinformatics based perspective. *Spatial Information Research*, 31. <https://doi.org/10.1007/s41324-023-00515-3>
- Bhattacharjee, S., Chandra Pandey, A., & Garg, R. D. (2023). Long-term estimation of glacier mass balance using geospatial techniques in Western Himalayas, Ladakh, India. *Quaternary Science Advances*, 12, 100118. <https://doi.org/10.1016/j.qsa.2023.100118>
- Dwivedi, C. S., Pampattiwar, S. T., Pandey, A. C., Parida, B. R., Mitra, D., & Kumar, N. (2023). Characterization of the Coastal Vulnerability in Different Geological Settings: A Comparative Study on Kerala and Tamil Nadu Coasts Using FuzzyAHP. *Sustainability*, 15(12), Article 12. <https://doi.org/10.3390/su15129543>
- Dwivedi, C., Chakraborty, K., Kumar, R., Pandey, A., & Bajpai, R. (2023). Vegetation Recovery Dynamics in Forest Fire Zones of Mizoram Using Spectral Vegetation Indices Derived from Landsat Data Series. *Indian Forester*, 149, 841. <https://doi.org/10.36808/if/2023/v149i8/163970>
- Dwivedi, C. S., Singh, S., Pandey, A. C., Basheer Ahammed, K. K., & Mitra, D. (2023). Indicator Based Approach and Geospatial Technology for Coastal Vulnerability Assessment along Chennai District Coast, Tamil Nadu State, India. *Thalassas: An International Journal of Marine Sciences*, 39(2), 719–737. <https://doi.org/10.1007/s41208-023-00583-0>
- Kumar, A., Upreti, M., Pandey, A. C., Saikia, P., & Khan, M. L. (2023). Contribution of Landscape Transformation in the Development of Heat Islands and Sinks in Urban and Peri-Urban Regions in the Chota–Nagpur Plateau, India. *Resources*, 12(5), Article 5. <https://doi.org/10.3390/resources12050058>
- Pandey, A. C., Kumari, N., Ahmad, S., Kumar, A., Saikia, P., Parida, B., Chaudhary, S. K., & Lele, N. (2023). Evaluating biochemical and biophysical characteristics of tropical deciduous forests of eastern India using remote sensing and in-situ parameter estimation. *Remote Sensing Applications: Society and Environment*, 29, 100909. <https://doi.org/10.1016/j.rsase.2022.100909>
- Santra, M., Dwivedi, C. S., & Pandey, A. C. (2023). Quantifying shoreline dynamics in the Indian Sundarban delta with Google Earth Engine (GEE)-based automatic extraction approach. *Tropical Ecology*. <https://doi.org/10.1007/s42965-023-00321-w>

## 2022

- Ahmad, S., Pandey, A. C., Kumar, A., Lele, N. V., & Bhattacharya, B. K. (2022). Primary productivity estimation of forest based on in-situ biophysical parameters and sentinel satellite data using vegetation photosynthesis model in an eastern Indian tropical dry deciduous forest. *Tropical Ecology*, 63(3), 409–422. <https://doi.org/10.1007/s42965-022-00220-6>
- Bar, S., Parida, B. R., Pandey, A. C., & Kumar, N. (2022). Pixel-Based Long-Term (2001–2020) Estimations of Forest Fire Emissions over the Himalaya. *Remote Sensing*, 14(21), Article 21. <https://doi.org/10.3390/rs14215302>
- Basheer Ahammed, K. K., & Pandey, A. C. (2022). Assessment and prediction of shoreline change using multi-temporal satellite data and geostatistics: A case

study on the eastern coast of India. *Journal of Water and Climate Change*, 13(3), 1477–1493. <https://doi.org/10.2166/wcc.2022.270>

- Bhattacharjee, S., & Chandra Pandey, A. (2022). Contrasting behaviour of temporal glacier changes and longterm estimation of glacier mass balance across Himalayan–Karakoram range. *Geocarto International*, 37(20), 5807–5831. <https://doi.org/10.1080/10106049.2021.1923832>
- Chaudhary, S., Chandra Pandey, A., & Parida, B. R. (2022). Geoinformatics based detection and delineation of paleochannels in hard rock terrain of Koel River Basin, Jharkhand, eastern India. *Groundwater for Sustainable Development*, 19, 100832. <https://doi.org/10.1016/j.gsd.2022.100832>
- Chaudhary, S. K., Pandey, A. C., & Parida, B. R. (2022). Forest Fire Characterization Using Landsat-8 Satellite Data in Dalma Wildlife Sanctuary. *Remote Sensing in Earth Systems Sciences*, 5(4), 230–245. <https://doi.org/10.1007/s41976-022-00076-3>
- Chaudhary, S. K., Pandey, A. C., Parida, B. R., & Gupta, S. K. (2022). Using geoinformatics to link forest fire severity and fragmentation in India's Dalma Wildlife Sanctuary. *Tropical Ecology*, 63(3), 453–462. <https://doi.org/10.1007/s42965-021-00202-0>
- Dwivedi, C. S., Raza, R., Pandey, A. C., & Jhariya, D. C. (2022). Assessment of Soil Risk by RUSLE Model Using Remote Sensing and GIS in Pench River Basin, Madhya Pradesh, India. In R. B. Singh, M. Kumar, & D. K. Tripathi (Eds.), *Remote Sensing and Geographic Information Systems for Policy Decision Support* (pp. 149–167). Springer Nature. [https://doi.org/10.1007/978-981-16-7731-1\\_7](https://doi.org/10.1007/978-981-16-7731-1_7)
- Gupta, S. K., & Pandey, A. C. (2022). PROSAIL and empirical model to evaluate spatio-temporal heterogeneity of canopy chlorophyll content in subtropical forest. *Modeling Earth Systems and Environment*, 8(2), 2151–2165. <https://doi.org/10.1007/s40808-021-01214-4>
- Kushwaha, A. P., Gupta, P. K., Pradhan, R., & Pandey, A. C. (2022). Sensitivity Analysis of C and Ku-Band Scatterometers for River Water Level Estimation. *IEEE Transactions on Geoscience and Remote Sensing*, 60, 1–8. <https://doi.org/10.1109/TGRS.2022.3187173>
- Lal, P., Kumar, A., Saikia, P., Das, A., Patnaik, C., Kumar, G., Pandey, A. C., Srivastava, P., Dwivedi, C. S., & Khan, M. L. (2022). Effect of vegetation structure on above ground biomass in tropical deciduous forests of Central India. *Geocarto International*, 37(21), 6294–6310. <https://doi.org/10.1080/10106049.2021.1936213>
- Pandey, A. C., Bhattacharjee, S., Wasim, Md., Salim, M., & Ranjan Parida, B. (2022). Extreme rainfall-induced urban flood monitoring and damage assessment in Wuhan (China) and Kumamoto (Japan) cities using Google Earth Engine. *Environmental Monitoring and Assessment*, 194(6), 402. <https://doi.org/10.1007/s10661-022-10076-x>
- Pandey, A. C., Ghosh, T., Parida, B. R., Dwivedi, C. S., & Tiwari, R. K. (2022). Modeling Permafrost Distribution Using Geoinformatics in the Alaknanda Valley, Uttarakhand, India. *Sustainability*, 14(23), Article 23. <https://doi.org/10.3390/su142315731>
- Pandey, A. C., Kaushik, K., & Parida, B. R. (2022). Google Earth Engine for Large-Scale Flood Mapping Using SAR Data and Impact Assessment on Agriculture and Population of Ganga-Brahmaputra Basin. *Sustainability*, 14(7), Article 7. <https://doi.org/10.3390/su14074210>

- Parida, B. R., Tripathi, G., Pandey, A. C., & Kumar, A. (2022). Estimating floodwater depth using SAR-derived flood inundation maps and geomorphic model in kosi river basin (India). *Geocarto International*, 37(15), 4336–4360. <https://doi.org/10.1080/10106049.2021.1899298>
- Parida, B. R., Pandey, A. C., Kumar, R., & Kumar, S. (2022). Surface Soil Moisture Retrieval Using Sentinel-1 SAR Data for Crop Planning in Kosi River Basin of North Bihar. *Agronomy*, 12(5), Article 5. <https://doi.org/10.3390/agronomy12051045>
- Sarkar, R., Pandey, A. C., & Dwivedi, C. S. (2022). Effect of Urban Expansion on Groundwater Crisis: A Comparative Assessment of Nainital, Mussoorie and Shimla Hill Cities. In R. B. Singh, M. Kumar, & D. K. Tripathi (Eds.), *Remote Sensing and Geographic Information Systems for Policy Decision Support* (pp. 443–466). Springer Nature. [https://doi.org/10.1007/978-981-16-7731-1\\_23](https://doi.org/10.1007/978-981-16-7731-1_23)
- Tripathi, G., Pandey, A. C., & Parida, B. R. (2022). Flood Hazard and Risk Zonation in North Bihar Using Satellite-Derived Historical Flood Events and Socio-Economic Data. *Sustainability*, 14(3), Article 3. <https://doi.org/10.3390/su14031472>

## 2021

- Basheer Ahammed, K. K., & Pandey, A. C. (2021) Characterization and impact assessment of super cyclonic storm AMPHAN in the Indian subcontinent through space borne observations *Ocean & Coastal Management* E.Bv. 205(1). 105532 Doi: [10.1016/j.ocecoaman.2021.105532](https://doi.org/10.1016/j.ocecoaman.2021.105532)
- B.R. Parida, S. Bar, Gareth Roberts, SP. Mandal, AC. Pandey, Manoj Kumar, Jadunandan Dash (2021) Improvement in air quality and its impact on land surface temperature in major urban areas across India during the first lockdown of the pandemic *Environment Research*. <https://doi.org/10.1016/j.envres.2021.111280>.
- Tauseef Ahmad, Arvind Chandra Pandey and Amit Kumar (2021) Long-term precipitation monitoring and its linkage with flood scenario in changing climate conditions in Kashmir valley, *Geocarto International*, DOI: [10.1080/10106049.2021.1923829](https://doi.org/10.1080/10106049.2021.1923829).
- Shubham Bhattacharjee and Arvind Chandra Pandey Contrasting behaviour of temporal glacier changes and long term estimation of glacier mass balance across Himalayan–Karakoram range *Geocarto International* DOI: [10.1080/10106049.2021.1923832](https://doi.org/10.1080/10106049.2021.1923832)
- Priya, T., Pandey, A.C. (2021) Geoinformatics-based assessment of land deformation and damage zonation for Gorkha earthquake, 2015, using SAR interferometry and ANN approach *SN Appl. Sci.* 3,573 <https://doi.org/10.1007/s42452-021-04574-9>
- Dwivedi C., Raza R., Mitra D., Pandey A C., Jhariya D (2021) Groundwater Potential Zone Delineation in Hard Rock Terrain for Sustainable Groundwater Development and Management in South Madhya Pradesh, India. *Geography, Environment, Sustainability* 14(1):106-121 <https://doi.org/10.24057/2071-9388-2020-195>
- Kashyap, R., Pandey, A.C. & Parida, B.R (2021) Spatio-temporal variability of monsoon precipitation and their effect on precipitation triggered landslides in



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<https://doi.org/10.1007/s41324-021-00392-8>

- B.R. Parida, G. Tripathi, A.C Pandey and A. Kumar (2021) Estimating Floodwater depth using SAR-derived Flood inundation maps and Geomorphic model in Kosi River Basin (India) Geocarto International. <https://doi.org/10.1080/10106049.2021.1899298>
- S.Bar, B.R. Parida, Gareth Roberts, A.C. Pandey, P. Acharya and J. Dash (2021) Spatio-temporal characterization of landscape fire in relation to anthropogenic activity and climatic variability over the Western Himalaya, India. GIScience & Remote Sensing 58(2), 281-299 DOI: [10.1080/15481603.2021.1879495](https://doi.org/10.1080/15481603.2021.1879495)
- Ahmad, Shahbaz, Pandey, A.C., Kumar, A. Lele, N. & Bhattacharya, B (2021) Potential of hyperspectral AVIRIS-NG data for vegetation characterization, species spectral separability, and mapping Appl Geomat <https://doi.org/10.1007/s12518-021-00355-6>

## 2020

- B.R. Parida, S. Bar, N. Singh, B. Oinam, A.C Pandey, and M. Kumar (2020) A short-term decline in anthropogenic emission of CO<sub>2</sub> in India due to COVID-19 confinement. Progress in Physical Geography: Earth and Environment, 1-17 DOI: [10.1177/0309133320966741](https://doi.org/10.1177/0309133320966741)
- B.R. Parida, A.C Pandey, and N.R Patel (2020) Greening and Browning Trends of Vegetation in India and Their Responses to Climatic and Non-Climatic Drivers. Climate, MDPI 8, 92, 1-29
- S. Bar and B.R. Parida and A.C Pandey (2020)Landsat-8 and Sentinel-2 based Forest fire burn area mapping using machine learning algorithms on GEE cloud platform over Uttarakhand, Western Himalaya Remote Sensing Applications: Society and Environment (RSASE), 18, 100324, 1-11.
- G. Tripathi, A.C Pandey, B.R. Parida and A. Kumar (2020). Flood inundation mapping and impact assessment using multi-temporal Optical and SAR satellite data: A case study of 2017 Flood in Darbhanga district, Bihar, India Water Resources Management, 34 (6), 1871-1892.
- Ahmad, S., Pandey, A.C., Kumar, Parida, B.R, A. Lele, N. & Bhattacharya, B.,(2020) Chlorophyll deficiency (chlorosis) detection based on spectral shift and yellowness index using hyperspectral AVIRIS-NG data in Sholayar reserve forest, Kerala. Remote Sensing Applications: Society and Environment, 19, 2020, 100369, ISSN 2352-9385, <https://doi.org/10.1016/j.rsase.2020.100369>
- Kishore, B.S.P.C., Kumar, Amit\*, Saikia, P., Lele, N., Pandey, A.C., Srivastava, P., Bhattacharya, B.K., Khan, M.L. (2020) Major Forests and Plant Species discrimination in Mudumalai Forests Region using Airborne Hyperspectral Sensing. Journal of Asia-Pacific Biodiversity 1-15.
- Kumar, Amit, Pandey, A.C., Pandey, S., Srivastava, P (2020) Evaluating Long Term Variability in Precipitation and Temperature in Eastern Plateau Region, India and its impact on Urban Environment. Environment, Development and Sustainability DOI: [10.1007/s10668-020-00742-w](https://doi.org/10.1007/s10668-020-00742-w)
- Lal, P., Prakash, A., Kumar, Amit\*, Srivastava, P.K., Srivastava, P., Saikia, P., Pandey, A.C., Khan, M.L. (2020) Evaluating the 2018 Extreme Flood Hazard Events in Kerala, India Remote Sensing Letters 11(5) 436-445
- Ahmad, T., Pandey, A.C., Kumar, Amit (2020) Impact of 2014 Kashmir flood on

land use/ land cover transformation in Dal Lake and its surroundings, Kashmir valley, SN Applied Sciences 2681

- Kumari, B., Pandey, A.C., Kumar, Amit (2020) Remote Sensing approach to evaluate anthropogenic influences on Forest Cover of Palamau Tiger Reserve, Eastern India Ecological Processes 9(17) 1-11
- Somnath Bar and B.R. Parida and A.C Pandey (2020) Landsat-8 and Sentinel-2 based Forest fire burn area mapping using machine learning algorithms on GEE cloud platform over Uttara khand, Western Himalaya. Remote Sensing Applications: Society and Environment (RSASE) 18, 100324 [ISSN: 2352-9385] 1-11
- G. Tripathi, A.C Pandey, B.R. Parida and A. Kumar (2020). Flood inundation mapping and impact assessment using multi-temporal Optical and SAR satellite data: A case study of 2017 Flood in Darbhanga district, Bihar, India Water Resources Management 34 (6)1871-1892
- Basheer Ahammed, K. K., & Pandey, A. C. (2020) Coastal Social Vulnerability and Risk Analysis for Cyclone Hazard along the Andhra Pradesh, East Coast of India KN Journal of Cartography and Geographic Information SN. 69(4). 285-303 Doi: [10.1007/s42489-019-00029-9](https://doi.org/10.1007/s42489-019-00029-9)
- J. Dash, M. D. Behera, C. Jeganathan, A. C. Pandey (2020) India's contribution to mitigating the impacts of climate change through vegetation management Tropical Ecology [doi.org/10.1007/s42965-020-00075-9](https://doi.org/10.1007/s42965-020-00075-9)

#### 2019

- Basheer Ahammed, K. K., & Pandey, A. C. (2019). Geoinformatics based Assessment of Coastal Multi- Hazard Vulnerability along the East Coast of India. Spatial Information Research SN. 27(3). 295-307, Doi:[10.1007/s41324-018-00236-y](https://doi.org/10.1007/s41324-018-00236-y)
- Ahmad, S., Pandey, A.C., Kumar, A., Lele, N.V., Bhattacharya, B.K. (2019) Forest health estimation in Sholayar Reserve Forest, Kerala using AVIRIS-NG hyperspectral data. Jour of Spatial Information Research
- Binita Kumari and Arvind Chandra Pandey (2019) MODIS based forest fire hotspot analysis and its relationship with climatic variables Jour of Spatial Information Research <https://doi.org/10.1007/s41324-019-00275-z>
- Chaudhary S and Pandey AC (2019) Multiple indices-based drought analysis by using long term climatic variables over a part of koel river basin, India Spatial Information Research. 28 273-285
- Gupta, S.K., Pandey, A.C. (2019) Change detection of landscape connectivity arisen by forest transformation in Hazaribagh wildlife sanctuary, Jharkhand (India Spatial Information Research [doi.org/10.1007/s41324-019-00301-0](https://doi.org/10.1007/s41324-019-00301-0)

#### 2018

- Basheer Ahammed, K. K., & Pandey, A. C. (2018) Shoreline Morphology Changes along the Eastern Coast of India, Andhra Pradesh by Using Geospatial Technology Journal of Coastal Conservation SN. 23(2).331-353 doi: [10.1007/s11852-018-0662-5](https://doi.org/10.1007/s11852-018-0662-5)
- A.P. Kushwaha, A.C. Pandey, S.S. Mahto. (2018) Assessment of Runoff Pattern



and Relationship to Sediment Yield of Bhagirathi–Alaknanda River Basin Using Geospatial Techniques, Journal of Geo-visualization and Spatial Analysis.

- S.Kanga, A.C. Pandey, A.Shaheen, S.K.Singh (2018) Geospatial Modeling to Assess Human Elephant Conflict and Corridor Mapping in Palamau Tiger Reserve, Jharkhand (INDIA) Jour. Future Engg Tech., vol 13, no. 3.
- Tauseef Ahmad, Arvind Chandra Pandey, Amit Kumar (2018) Flood hazard vulnerability assessment in Kashmir Valley, India using, geospatial approach Jour. Phy& Chem of the Earth

## 2017

- A.C. Pandey and Stuti (2017) Geospatial Technique for Runoff Estimation Based on SCS-CN Method in Upper South Koel River Basin of Jharkhand (India) International Journal of Hydrology Vol. 1, Issue 7
- Bikash Ranjan Parida, Sailesh N. Behera, Oinam Bakimchandra, Arvind Chandra Pandey and Nilendu Singh (2017) Evaluation of Satellite-Derived Rainfall Estimates foran Extreme Rainfall Event over Uttarakhand, Western Himalayas Hydrology, 4, 22 doi:[10.3390/hydrology4020022](https://doi.org/10.3390/hydrology4020022)
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**Books and Book Chapters (Published/ Accepted) {Style of book should be typed as given below}****For Book (example)**

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- Geoinformatics for Decentralized Planning and Governance (2008). M.S. Nathawat & A.C. Pandey (Ed). Rawat Publications, ISBN 81-316-0117-X.
- Handbook of Himalayan Ecosystems and Sustainability, Volume 1: Spatio-Temporal Monitoring of Forests and Climate, CRC Press, 2023
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	<p>257–273). <a href="https://doi.org/10.1007/978-3-030-68936-0_13">https://doi.org/10.1007/978-3-030-68936-0_13</a></p> <ol style="list-style-type: none"> <li>17. Parida, B. R., Pandey, A. C., Kumar, S., &amp; Tripathi, G. (2022). Chapter 5—Comparative flood area analysis based on change detection and binarization methods using Sentinel-1 synthetic aperture radar data. In P. K. Srivastava, D. K. Gupta, T. Islam, D. Han, &amp; R. Prasad (Eds.), <i>Radar Remote Sensing</i> (pp. 93–108). Elsevier. <a href="https://doi.org/10.1016/B978-0-12-823457-0.00001-X">https://doi.org/10.1016/B978-0-12-823457-0.00001-X</a></li> <li>18. Parida, B. R., Sparsha, S., Bar, S., Pandey, A. C., &amp; Kumar, N. (2022). Monitoring Land Use/Land Cover Change and High-altitude Vegetation Trends along with Their Climatic Controls across the Central and Eastern Himalayas. In <i>Handbook of Himalayan Ecosystems and Sustainability, Volume 1</i>. CRC Press.</li> <li>19. Rana, P., Chockalingam, J., &amp; Pandey, A. (2016). Space-Time Integrated Landslide Hazard Zonation near Tehri Dam in Uttarakhand, India: Integrated Landslide Hazard Zonation (pp. 122–146). <a href="https://doi.org/10.4018/978-1-5225-1814-3">https://doi.org/10.4018/978-1-5225-1814-3</a></li> <li>20. Salim, M., &amp; Pandey, A. C. (2022). Monitoring Spatiotemporal Snow-Cover Dynamics with a Focus on Runoff in the Zaskar Valley, Ladakh, India. In <i>Handbook of Himalayan Ecosystems and Sustainability, Volume 2</i>. CRC Press.</li> <li>21. Sarkar, R., Pandey, A. C., &amp; Dwivedi, C. S. (2022). Effect of Urban Expansion on Groundwater Crisis: A Comparative Assessment of Nainital, Mussoorie and Shimla Hill Cities. In R. B. Singh, M. Kumar, &amp; D. K. Tripathi (Eds.), <i>Remote Sensing and Geographic Information Systems for Policy Decision Support</i> (pp. 443–466). Springer Nature. <a href="https://doi.org/10.1007/978-981-16-7731-1_23">https://doi.org/10.1007/978-981-16-7731-1_23</a></li> <li>22. Tripathi, G., Pandey, A., Parida, B., &amp; Shakya, A. (2020). Comparative Flood Inundation Mapping Utilizing Multi-Temporal Optical and SAR Satellite Data Over North Bihar Region: A Case Study of 2019 Flooding Event Over North Bihar (pp. 149–168). <a href="https://doi.org/10.4018/978-1-7998-5027-4.ch008">https://doi.org/10.4018/978-1-7998-5027-4.ch008</a></li> <li>23. Tripathi, G., Phulwari, B., Parida, B., Pandey, A., &amp; Behara, M. (2022). Flood Inundation and floodwater depth mapping using Synthetic Aperture Radar data in Gandak river basin. <a href="https://doi.org/10.1201/9781003265160-72">https://doi.org/10.1201/9781003265160-72</a></li> </ol>
<p><b>Seminar/ Workshop/ Conference Participation:</b></p>	<p><b>{Style of seminar/ workshop/ conference should be typed as given below}</b></p> <ol style="list-style-type: none"> <li>1. Kaushik, K., &amp; Pandey, A. (2023, November 28). SAR-Data-Based Flood Mapping and Regional Precipitation Trends Analysis. The 5th International Electronic Conference on Remote Sensing session.</li> <li>2. Shahbaz Ahmad and A C Pandey (2021) Hyperspectral remote sensing for synergetic applications in qualitative and quantitative assessment of vegetation parameters". National Conference on "Recent Trends in geospatial Technology in Earth Resource Mapping: Issues and Challenges" on 20th March, 2021 organized by Department of Geoinformatics, Central University of Jharkhand.</li> <li>3. Shahbaz Ahmad and A C Pandey (2020)." Techniques in Hyperspectral Data Analysis and Processing". 2nd National Workshop Organized by IESD, BHU, Varanasi during 27th -31st January 2020.</li> </ol>

	<ol style="list-style-type: none"> <li>4. A.C. Pandey, T Ahmad &amp; Amit Kumar (2017) Flood vulnerability and risk assessment vis-à-vis Urban-Rural built-up development in Kashmir Valley (J&amp;K), India using Geoinformatics. Paper Presented at 38th Asian Conference on Remote Sensing (ACRS) 38th Asian Conference on Remote Sensing (ACRS)</li> <li>5. B.R. Parida, A.C Pandey, and N.R Patel (2020). Spatial-temporal Patterns of vegetation trends and Responses from Climate and Non-climate Factors. National Symposium on Remote Sensing for Environment Monitoring &amp; Climate Change Assessment: Opportunities and Challenges, 18-19 December, 2020 SAC Ahmedabad, India.</li> <li>6. G. Tripathi, A.C Pandey, B.R. Parida (2020). Spatio-temporal Analysis of Turbidity in Ganga River in Patna, Bihar Using Sentinel-2 Satellite data linked with Covid-19 Pandemic. IEEE International India Geoscience and Remote Sensing Symposium, 2-4 December, 2020 Ahmedabad, India.</li> <li>7. Stuti Chaudhary, Arvind Chandra Pandey (2020). Runoff estimation vis-à-vis drought vulnerability analysis using geoinformatics in part of Koel river basin, Jharkhand (India). National Conference on Challenges in Earth System Sciences for Global Sustainability (CESS-GS) January 15-17, 2020. CORAL IIT Kharagpur, India.</li> <li>8. G Tripathi, A C Pandey, B R Parida (2019) “Comparative flood area analysis utilizing VV and VH polarizations Sentinel-1A SAR data”. National symposium on Innovations in geospatial technology for sustainable development with special emphasis on NER during 20-22nd November, 2019 at North Eastern Space Application Centre, Umiam, Meghalaya.</li> <li>9. KK Basheer Ahammed, Arvind Chandra Pandey (2019). “Impact of Marine Sand Mining on Coastal Morphology: A Case Study on Alappad Coast, Kerala” Sixth Biennial Conference OSICON-19 Indian Ocean Processes and Resources – A Key to Blue Economy” 275-276. CMLRE-MoES, Kochi on 12th – 14th Dec 2019</li> <li>10. KK Basheer Ahammed, Arvind Chandra Pandey (2018) “Coastal Social Vulnerability analysis for Cyclone along the Coastal Andhra Pradesh” Environmental Challenges and Sustainability (ICECS) 85-86. Central University of Jharkhand Ranchi on 31st Oct -2nd Nov 2018</li> <li>11. Stuti Chaudhary, Arvind Chandra Pandey (2018) Ground water Prospect Mapping in Upper South Koel River Basin Jharkhand (India) based on GIS and Remote Sensing Technologies. International Conference on Water and waste water management and modeling, 16-17 January, 2018 Central University of Jharkhand, India.</li> <li>12. S. K. Gupta, A. C Pandey (2018) Cluster Techniques to threshold Vegetation Indices &amp; Gap Detection in Hazaribagh Wildlife Sanctuary, Jharkhand (India)”in February 09-11-2018 at Center for climate Change &amp;Water Research, SGVU, Jaipur (Challenge &amp; solution for a sustainable Environment).</li> <li>13. A.C. Pandey, T Ahmad &amp; Amit Kumar (2017) Flood vulnerability and risk assessment vis-à-vis Urban-Rural built-up development in Kashmir Valley (J&amp;K), India using Geoinformatics. Paper Presented at 38th Asian Conference on Remote Sensing (ACRS) 38th Asian Conference on Remote Sensing (ACRS).</li> <li>14. KK Basheer Ahammed, Arvind Chandra Pandey (2016) “Assessment of shoreline changes along Andhra coast using geospatial techniques”. Climate, Recent Findings and Future Challenges. 89-90/ CSIR- NIO, Goa on 27-30 April 2016</li> <li>15. S. K. Gupta, A. C Pandey (2016) “Utilizing Geo-informatics in mapping forest transformation” In Hazaribagh Wildlife Sanctuary, Jharkhand, India (National Seminar on Environmental and development in eastern India (Status, Issues and Challenges) at Ranchi University (17-18 DEC 2016).</li> </ol>
<p><b>Program Organized:</b></p>	<ul style="list-style-type: none"> <li>• One day workshop on the topic University Competition on Water Resources Management Consultative Workshop” conducted by DLRM in collaboration with TERI University at CUJ on 16th January 2015</li> <li>• One week Training on “Aquifer Management and local ground water issues”</li> </ul>

	<p>organized in collaboration with Central Ground Water Board, Ranchi organized during 11th – 15th March 2014.</p> <ul style="list-style-type: none"> <li>• International Conference on Environmental Challenges and Sustainability (ICECS 2018) in Central University of Jharkhand, Ranchi during 31st October to 2nd November, 2018 Collaborating Agency: IUCN (CEM), Tata Steel</li> <li>• National Webinar on Disaster Risk Reduction and Urban Risk Management. 06 Aug 2021 (proposed) Collaborating Agency: National Institute of Disaster Management, New Delhi</li> <li>• National Webinar on Biodiversity Conservation and Disaster Risk Reduction 26 March 2021 Collaborating Agency: National Institute of Disaster Management, New Delhi</li> <li>• National webinar on Anthropogenic Impact on Environment, Society &amp; Health” on 30th &amp; 31 of January, 2021 in collaboration with Zoological Survey of India (ZSI) Kolkata, National Academy of Science (NASI), Environment welfare Society Khajuraho (M.P.)</li> <li>• National webinar on Recent trends in Geospatial Technology in Earth Resources Mapping: Issues &amp; Challenges” on 19th &amp; 20th March 2021</li> <li>• National webinar in collaboration with Bharatiya Shikshan Mandal on “National Education Policy NEP 2020: A paradigm shift in education and future challenges” on 12th April 2021</li> </ul>
<b>Any other information:</b>	Personal Website:
<b>Updated as on</b>	15 April. 2024