

List of Publications

- Banerjee, K., Panda, S., Jain, M.K., and Shah, N., 2025. Adaptive Object-Oriented and Spectral-Based Geo-Processing for Tree Species Mapping Using Sentinel-2A and EO-1 Hyperion Hyperspectral Satellite Imagery in FRI Campus. *Indian Forester*, 171(7), pp. 631-641.
- Panda, S. and Banerjee, K., 2021. Remote sensing for geology-geophysics. In *Basics of Computational Geophysics* (pp. 223-269). Elsevier.
- Panda, S., Jain, M.K., Jeyaseelan, A.T. and Banerjee, K., 2021. Satellite image derived spectral modeling to assess the grades of hematite deposits: a study on Noamundi area in West Singhbhum district, Jharkhand. *Geocarto International*, 36(3), pp.299-319.
- Panda, S., Jain, M.K. and Jeyaseelan, A.T., 2018. A study and implications on the potential of satellite image spectral to assess the iron ore grades of Noamundi iron deposits area. *Journal of the Geological Society of India*, 91, pp.227-231.
- Banerjee, K. and Jain, M.K., 2018. Copper ore identification using spectral similarity measurement from hyperion image, mapping of porphyry copper mineralized zone. *Journal of the Geological Society of India*, 91, pp.239- 247.
- Panda, S., Jain, M.K., Banerjee, K. and Jeyaseelan, A.T., 2021. Environmental sustainability (ES): a case study of Noamundi area in Jharkhand, India. *International Journal of Environment and Pollution*, 69(1-2), pp.35-62.
- Banerjee, K., Jain, M.K., Jeyaseelan, A.T. and Panda, S., 2019. Landsat 8 OLI data for identification of hydrothermal alteration zone in Singhbhum Shear Zone using successive band depth difference technique- a new image processing approach. *Current science*, 116(10), pp.1639-1647.
- Acharyya, N., Panda, S., Barman, S., Pratihari, S. and Bandyopadhyay, J., 2021. Multi-criteria geospatial techniques for selecting potentially suitable sites for aquaculture development in Purba Medinipur, West Bengal, India. *International Journal of Water*, 14(2-3), pp.167-191.
- Acharyya, N., Panda, S. and Bandyopadhyay, J., 2022. Structural classification and monitoring development status of impounded water resources using spatial information technology of Purba Medinipur district, India. *Sustainable Water Resources Management*, 8(4), p.100.
- Panda, S., Banerjee, K., Jain, M.K. And Shaw, S.K., 2015. Estimation of Bedrock Peak Ground Acceleration for Bagmati Area, Nepal by using GIS Technique. *OF EARTH SCIENCES AND ENGINEERING*, p.2588.
- Panda, S. and Bandyopadhyay, J., 2011. Morphodynamic changes of Bhagirathi river at Murshidabad district using geoinformatics. *Journal of Geographic Information System*, 3(01), p.85. DOI:10.436/jgis.2011.31006.
- Panda, Surajit and Jain, M.K., 2017. Effects of green space spatial distribution on land surface temperature: Implications for land cover change as environmental indices. *International*

List of Publications

- Journal of Earth Sciences and Engineering, 10(2), pp.180-184. DOI: 10.21276/ijee.2017.10.0207.
- Panda, S., Banerjee, K., Sharma, R., Jain, M.K. and Jeyaseelan, A.T., 2014. Measurement of Urban Growth and Spatial Dynamics in a Rapid Growing Saltlake City of Kolkata Using GIS. International Journal of Remote Sensing and GIS, 3(2), pp.10-17. (<https://moam.info/measurement-of-urban-growth-and-spatialdynamics-5b6d07e8097c4778208b45ce.html>).
- Panda, S., Banerjee, K. and Jain, M.K., 2014. Identification of Iron Ore Mines of Noamundi, Jharkhand by Using the Satellite Based Hyperspectral and Geospatial Technology. International Journal of Science and Research (IJSR), 3(6), pp.149-152.
- Panda, S., Banerjee, K., Jain, M.K. and Sharma, R.K., 2014. Seamless slope generation from cartosat-1 stereo DEM of Noamundi of Jharkhand and its surrounding areas using geospatial technology. Int J Res Advent Technol, 2(6), pp.133-136.
- Banerjee, K., Panda, S. and Kumar Jain, M., 2012. Identification and mapping of copper mining area in Singhbhum copper belt using advance image processing techniques. Int. J. Sci. Res, pp.1404-1407.
- Banerjee, K., Panda, S. and Bandyopadhyay, J., 2014. Manish Kumar Jain Forest Canopy Density Mapping Using Advance Geospatial Technique. IJISSET-International Journal of Innovative Science, Engineering & Technology, 1(7), pp. 358-363.
- Banerjee, K., Panda, S., Jain, M.K. and Jeyaseelan, A.T., 2016. Surface Water Management of Pandaveswar Block by Remote Sensing & GIS Techniques. International Journal for Scientific Research & Development, 3(5), pp.2321-0613. <https://www.ijserd.com/Article.php?manuscript=IJSRDV3I50218>
- Acharyya, N., Pratihar, S., Panda, S., Bandyopadhyay, J. and Patra, B.C., 2019. The status of locally endangered fish faunal: a case study of Contai Sub-division, Purba Medinipur district, West Bengal. Int J Res Advent Technol, 7(2), pp.309-314. DOI:10.32622/ijrat.72201986
- Panda, S., Jain, M.K., Banerjee, K. and Jeyaseelan, A.T., 2019. Assessment of Air Quality Health Index: Status of Ambient Air Quality for Noamundi Mines and Surrounding Area, Jharkhand. i-Manager's Journal on Future Engineering and Technology, 14(3), p.20. <https://doi.org/10.26634/jfet.14.3.15285>
- Banerjee, K., Jain, M.K., Panda, S. and Katiyar, S.C., 2019. An Analysis of Air Quality Status in Some Part of Singhbhum Shear Zone, Jharkhand. i-Manager's Journal on Civil Engineering, 9(3), p.35. <https://doi.org/10.26634/jce.9.3.15347>.
- Maiti, K.K., Bandyopadhyay, J., Chakravarty, D. and Panda, S., 2022. Habitat suitability of wildlife for mitigation and conservation of Noamundi block in West Singhbhum,

List of Publications

- Jharkhand using WSH model and GIS. *Safety in Extreme Environments*, 4(1), pp.69-79.
<https://doi.org/10.1007/s42797-022-00053-5>.
- Panda, S., Banerjee, K., Jain, M.K., Jeyaseelan, A.T. and Sharma, R.K., 2014. Mapping of iron Minings of Noamundi areas, Jharkhand by using the image based NDII and geospatial technology. *International Journal of Innovation and Scientific Research*, 4(7), pp. 5-10.
- Banerjee, K., Panda, S., Jain, M.K., Jeyaseelan, A.T. and Sharma, R.K., 2014. Comparison of Aster Thermal Bands and feature Identification Using Advance Spectroscopic Techniques. *International Journal of Innovation and Scientific Research*, 7(1), pp. 11-18.
- Panda, S., Shaw, S.K., Bandyopadhyay, J. and Sharma, R.K., 2014. Determination of gravity irrigation capability of barmasia village, Giridih using geospatial technology. *International Journal of Research in Advent Technology*, 2(10), pp. 22-28.
- Shaw, S.K., Panda, S., Londhe, S. and Vinod V. H, K., 2015. Remote sensing and gis for natural resource inventory of hilly terrain-a case study of Kakrorasa sub-watershed, Ranchi district, Jharkhand. *International Journal of Scientific Engineering and Applied Science (IJSEAS)*, 1(3), pp. 122-131.
- Srivastava, Y. K., Paul, A., Chowdary, V.M., Jeyaram, A. and Panda, S., 2012, Adaptive Image Contrast Enhancement Technique on CARTOSAT - 1 Stereo pair for DEM quality improvement. XXXII INCA International Congress On Cartography for Sustainable Earth Resource Management. 11-13 October, 2012.
- Panda, S., Jain, M.K. and Banerjee, K., 2016. Characterization of Iron Ore Resources and Alteration Mapping by Visible and Infrared Images of Landsat Data: Mapping of Altered Mineralized Zones in Noamundi. ISRS - ISG National Symposium on Recent Advances in Remote Sensing and GIS with Special Emphasis on Mountain Ecosystems, 7 - 9 December 2016, Dehradun (India).