## **IJARSCT**



International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

Volume 2, Issue 4, May 2022

## Object Based Image Classification and Analysis for Remote Sensing

Piyush Pachare<sup>1</sup>, Aditya Patil<sup>2</sup>, Gaurav Uke<sup>3</sup>, Aditya Thombare<sup>4</sup>, Mrs. R. T. Waghmode<sup>5</sup>

Students, Department of Computer Engineering<sup>1,2,3,4</sup>
Professor, Department of Computer Engineering<sup>5</sup>
Sinhgad Institute of Technology and Science, Pune, Maharashtra, India
, Sinhgad Institute of Technology and Science, Pune, India

**Abstract:** Remote sensing is the process of detecting and monitoring the physical characteristics of an area by measuring its reflected and emitted radiation at a distance. In this paper, we have shown object-based image analysis on ARD data obtained from Landsat satellite and applying NDVI, zonal statistics, classification, segmentation, change detection.

Keywords: Classification, Remote-sensing, change-detection

## REFERENCES

- [1]. T. Blaschke (2010). Object based image analysis for remote sensing. , 65(1), 2–16. doi:10.1016/j.isprsjprs.2009.06.004
- [2]. https://www.usgs.gov/faqs/what-are-us-landsat-analysis-ready-data-ard
- [3]. Schinasi, Leah H.; Benmarhnia, Tarik; De Roos, Anneclaire J. (2018). Modification of the association between high ambient temperature and health by urban microclimate indicators: A systematic review and meta-analysis. Environmental Research, 161(), 168–180. doi:10.1016/j.envres.2017.11.004
- [4]. Image Classification in Remote Sensing Jwan Al-doski, Shattri B. Mansor and Helmi Zulhaidi Mohd Shafri
- [5]. A Comparison of Segmentation Programs for High Resolution Remote Sensing Data G. Meinel, M. Neubert
- [6]. Mouat, David A.; Mahin, Glenda G.; Lancaster, Judith (1993). Remote sensing techniques in the analysis of change detection. Geocarto International, 8(2), 39–50. doi:10.1080/10106049309354407
- [7]. M.V.K. Sivakumar and Donald E. Hinsman Agricultural Meteorology Division and Satellite Activities Office World Meteorological Organization (WMO), 7bis Avenue de la Paix, 1211 Geneva 2, Switzerland
- [8]. Monitoring Mangrove Forest Cover Changes Using Remote Sensing and GIS Data with Machine Learning Techniques Aishwarya Gupta, Ayush Shroff, Aman Saxena
- [9]. Monitoring 25 years of land cover change dynamics in Africa: A sample based remote sensing approach Andreas Bernhard Brink, Hugh Douglas Eva

DOI: 10.48175/568