LISTS OF PUBLICATIONS

1. **Bhagyashree Verma**, Rajendra Prasad, Prashant K. Srivastava, Prachi Singh, Anushree Badola, and Jyoti Sharma. “Evaluation of Simulated AVIRIS-NG Imagery Using a Spectral Reconstruction Method for the Retrieval of Leaf Chlorophyll Content.” *Remote Sensing* 2022, 14(15): 3560 (**Research article**)

2. **Bhagyashree Verma**, Rajendra Prasad, Prashant K. Srivastava, Suraj A. Yadav, Prachi Singh, and R. K. Singh. "Investigation of optimal vegetation indices for retrieval of leaf chlorophyll and leaf area index using enhanced learning algorithms." *Computers and Electronics in Agriculture* 192 (2022): 106581 (**Research article**)

3. **Bhagyashree Verma**, Prachi Singh, Rajendra Prasad, Prashant K. Srivastava. “Leaf chlorophyll content retrieval for AVIRIS-NG imagery using different feature selection and wavelet analysis” (Accepted for publication in *Advances in Space Research*) (**Research article**)

4. **Bhagyashree Verma**, Rajendra Prasad, Prashant K. Srivastava, Shubham Kumar Singh, Anushree Badola, Vikas Dugesar, and Prachi Singh. “Leaf chlorophyll content and Leaf area index retrieval using UAV and a simulated semi-pseudo hyperspectral imagery” (submitted in *International Journal of Remote Sensing*) (**Research article**)

5. Yadav, Suraj A., Rajendra Prasad, Vijay P. Yadav, **Bhagyashree Verma**, Shubham K. Singh, Jyoti Sharma, and Prashant K. Srivastava. "Far-field bistatic scattering simulation for rice crop biophysical parameters retrieval using modified radiative transfer model at X-and C-band." *Remote Sensing of Environment* 272 (2022): 112959 (**Research article**)

6. Yadav, Suraj A., Rajendra Prasad, Ajeet Kumar Vishwakarma, Jyoti Sharma, **Bhagyashree Verma**, and Prashant K. Srivastava. "Optimization of dual-polarized bistatic specular scatterometer for studying microwave scattering response and vegetation growth parameters retrieval of paddy crop using a machine learning

algorithm." *Computers and Electronics in Agriculture* 175 (2020): 105592 (**Research article**)

7. **Bhagyashree Verma**, Rajendra Prasad, Prashant K. Srivastava and Prachi Singh, "Retrieval of Leaf Area Index Using Inversion Algorithm," 2022 12th Workshop on Hyperspectral Imaging and Signal Processing: Evolution in Remote Sensing (WHISPERS), 2022, pp. 1-4 (**Conference proceeding**)

8. Prachi Singh, Prashant K. Srivastava, R. K. Mall, **Bhagyashree Verma** and Rajendra Prasad, "Identification of Optimal Absorbance Spectral Bands From AVIRIS-NG Using Standard Derivative Analysis," 2022 12th Workshop on Hyperspectral Imaging and Signal Processing: Evolution in Remote Sensing (WHISPERS), 2022, pp. 1-4 (**Conference proceeding**)

CONFERENCES/WORKSHOP

1. Oral Presentation in 'American Geophysical union (AGU), Fall meeting, 'Reconstructing a hyperspectral imagery using Universal Pattern Decomposition Method and a Multispectral imagery for Leaf Chlorophyll Content retrieval', Illinois, Chicago (12-16 December, 2022,)

2. Oral presentation in Workshop on Hyperspectral Image and Signal Processing - Evolution in Remote Sensing (WHISPERS 2022), Rome, Italy, organized by Geoscience and Remote Sensing Society- Institute of Electrical and Electronics Engineers (GRSS IEEE), Rome, Italy (September 13-16, 2022)

3. One week second national workshop on Techniques in hyperspectral data analysis and processing, IESD, Banaras Hindu University (27 -31 January 2020).

4. Webinar on Forestry Applications – QGIS hosted by TGIS (20 September 2020)

5. Training course on the operation of FieldSpec 4 Spectroradiometer by Electrotek International (29-31 July 2019)

6. Oral Presentation in National Symposium on Innovations in Geospatial Technology for sustainable development with special emphasis on NER, Shillong, Meghalaya, organized by the Indian Society of Geomatics (ISG) & Indian Society of Remote Sensing (ISRS) (20-22, November 2019)

7. Pre-symposium tutorials on Hyperspectral Remote Sensing organized by Indian Society of Geomatics (ISG) & Indian Society of Remote Sensing (ISRS), Shillong, Meghalaya (November 18-19, 2019)

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