

List of Publications

Published

1. **Yadav, S.A.**, Prasad, R., Yadav, V.P., Verma, B., Singh, S.K., Sharma, J. and Srivastava, P.K., 2022, "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, p.112959.
2. **Yadav, S.A.**, Prasad, R., Vishwakarma, A.K., Sharma, J., Verma, B. and Srivastava, P.K., 2020, "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, p.105592.
- 3*. Sharma, J., Prasad, R., Srivastava, P.K., **Yadav, S.A.** and Yadav, V.P., 2022, "Improving Spatial Representation of Soil Moisture Through the Incorporation of Single-Channel Algorithm With Different Downscaling Approaches," *IEEE Transactions on geoscience and remote sensing*, 60, p.5302710.
- 4*. Sharma, J., Prasad, R., Srivastava, P.K., Singh, S.K., **Yadav, S.A.** and Yadav, V.P., 2021, "Roughness characterization and disaggregation of coarse resolution SMAP soil moisture using single-channel algorithm," *Journal of Applied Remote Sensing*, 15(1), p.014514.
- 5*. Verma, B., Prasad, R., Srivastava, P.K., **Yadav, S.A.**, Singh, P. and Singh, R.K., 2022, "Investigation of optimal vegetation indices for retrieval of leaf chlorophyll and leaf area index using enhanced learning algorithms," *Computers and Electronics in Agriculture*, 192, p.106581.

Note* 3, 4 and 5 works are not the part of this thesis.

Unpublished

6. **Yadav, S.A.**, Prasad, R., Sharma, J. and Srivastava, P.K., 2022, “[Vegetated rough land parameters retrieval using coherent and incoherent bistatic scattering model at X- and L-band](#)”. (*under review*)

7. **Yadav, S.A.**, Prasad, R., Singh, S.K., Sharma, J. and Srivastava, P.K., 2022, “[Polarimetric bistatic scattering decomposition using comprehensive modified first-order radiative transfer model at C-band for vegetated rough land](#)”. (*under review*)

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