

Complete list of publication of Dr. Arnab Muhuri

Publications in Peer-Reviewed Journals:

1. Ratha, D., Mandal, D., Kumar, V., De, S., **Muhuri, A.**, Bhattacharya, A. (2018): Land Cover Change Analysis from Multi-temporal and Multi-polarized SAR Images Using a Geodesic Distance. ISPRS Journal of Photogrammetry and Remote Sensing. (In Preparation)
2. **Muhuri, A.**, Surendar, M., Bhattacharya, A. (2018): Snow Cover Mapping with Polarization Fraction Variation Using Temporal RADARSAT-2 C-Band Full-Polarimetric SAR Data Over the Indian Himalayas. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, Special Issue on Remote Sensing in India.
3. **Muhuri, A.**, Ratha, D., Bhattacharya, A. (2017): Seasonal Snow Cover Change Detection Over the Indian Himalayas Using Polarimetric SAR Images. IEEE Geoscience and Remote Sensing Letters.
4. **Muhuri, A.**, Surendar, M., Bhattacharya, A. (2017): Scattering Mechanism Based Snow Cover Mapping Using RADARSAT-2 C-Band Polarimetric Synthetic Aperture Radar Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, DOI: 10.1109/JSTARS.2017.2681719.
5. Usami, N., **Muhuri, A.**, Bhattacharya, A., Hirose, A. (2016): PolSAR Wet Snow Mapping with Incidence Angle Information. IEEE Geoscience and Remote Sensing Letters, Volume 13, No. 12, Pages 2029-2033.
6. Bhattacharya, A., De, S., **Muhuri, A.**, Surendar, M., Venkataraman, G., Das, A. K. (2015): A New Compact Polarimetric SAR Decomposition Technique, IEEE Geoscience and Remote Sensing Letters, Volume 6, No. 12, Pages 914-923.
7. Bhattacharya, A., **Muhuri, A.**, De, S., Surendar, M., Frery, A. C. (2015): Modifying the Yamaguchi Four-Component Decomposition Scattering Powers Using a Stochastic Distance. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, Volume 8, No. 7, Pages 3497-3506. DOI: 10.1109/JSTARS.2015.2420683.

Publications in International Conference Proceedings:

1. De, S., **Muhuri, A.**, Surendar, M., Bhattacharya, A. (2018):
Snow Cover Mapping with Poincare Sphere Parameters from PolSAR Images Using an Auto-Encoder Network. IEEE International Geoscience and Remote Sensing Symposium, July 22-27, Valencia, Spain
2. **Muhuri, A.**, Bhattacharya, A., Menzel, L. (2018):
Monitoring Snow Cover Extent with Satellite Synthetic Aperture Radar for Snow Hydrological Applications. SnowHydro: International Conference on Snow Hydrology, February 12-15, Heidelberg, Germany.
(Invited Paper)
3. **Muhuri, A.**, Bhattacharya, A. (2017):
Seasonal Variation of Touzi Scattering Asymmetry for Monitoring Snow Cover Over the Indian Himalayas. The 38th Asian Conference on Remote Sensing, October 23-27, New Delhi, India.
(Invited Paper)
4. **Muhuri, A.**, De, S., Surendar, M., Dhingra, S., Hariharan, S., Maity, A., Ratha, D., Bhattacharya, A. (2016):
Novel Scattering Power Decomposition Techniques for Full and Compact Polarimetric SAR Data. National Symposium on Recent Advances in Remote Sensing and GIS with Special Emphasis on Mountain Ecosystems & Annual Conventions of Indian Society of Remote Sensing & Indian Society of Geomatics, December 7-9, Dehradun, India.
5. De, S., **Muhuri, A.**, Surendar, M., Bhattacharya, A. (2016):
Snow Cover Mapping with Insight Into a Sparse Representation Approach Using Polarimetric SAR Data. IEEE Young Professionals Conference on Remote Sensing, DLR, Oberpfaffenhofen, Germany.
6. Usami, N., **Muhuri, A.**, Bhattacharya, A., Hirose, A. (2016):
Proposal of Wet Snow Mapping with Focus on Incident Angle Influential to Depolarization of Surface Scattering. IEEE International Geoscience and Remote Sensing Symposium, July 10-15, Beijing, China.
7. **Muhuri, A.**, Natsuaki, R., Bhattacharya, A., Hirose, A. (2015):
Glacier Surface Velocity Estimation Using Stokes Vector Correlation. Asia-Pacific Conference on Synthetic Aperture Radar, September 1-4, Singapore.
8. **Muhuri, A.**, Surendar, M., Bhattacharya, A., Singh, G. (2015):
Scattering Helicity for Snow Cover Mapping. IEEE International Geoscience and Remote Sensing Symposium, July 26-31, Milan, Italy.

9. Bhattacharya, A., **Muhuri, A.**, Surendar, M., Venkataraman, G. (2015):
A New Target Decomposition Technique For Compact Polarimetric SAR Data.
46th Lunar and Planetary Science Conference, March 16-20, The Woodland,
Texas, USA.

10. Bhattacharya, A., **Muhuri, A.**, De, S., Frery, A. C. (2014):
Orientation Angle Estimation from PolSAR Data Using a Stochastic Distance.
International Geoscience and Remote Sensing Symposium, July 13-18, Quebec,
Canada.

11. **Muhuri, A.**, Dhingra, S., Bhattacharya, A., Venkataraman G. (2013):
A Quantitative Analysis of Backscattered Radar from the Lunar Surface. Asia-
Pacific Conference on Synthetic Aperture Radar, September 23-27, Tsukuba,
Japan.

12. **Muhuri, A.**, Dhingra, S., Bhattacharya, A., Venkataraman G. (2013):
Characterization of Backscattered Radar Waves from the Lunar Surface. IEEE
International Geoscience and Remote Sensing Symposium, July 21-26,
Melbourne, Australia.

13. Verma, G. S., Banerjee, B., **Muhuri, A.**, Bhattacharya, A., Mohan, B. K. (2013):
Radon Transform Based Edge Detection of SAR Imagery. IEEE International
Geoscience and Remote Sensing Symposium, July 21-26, Melbourne, Australia.

14. **Muhuri, A.**, Bhattacharya, A (2012):
Statistical Modelling of Dual-Band Quad-Pol Synthetic Aperture Radar Images.
8th International Conference on Microwave Antenna Propagation & Remote
Sensing, December 10-15, Jodhpur, India.