

Machine learning to Deep Learning: A journey for remote sensing data classification

(5th to 9th July 2021)

Lecture / Time		Lecture topic	Resource Person
5 th July 2021	15.30Hrs – 16.00Hrs	Inauguration	
L-1, 5 th July 2021	16.00Hrs – 17.30Hrs	Remote Sensing and its sensors of various resolutions. Radiometry and Geometric corrections and basic understanding of Image.	Shri Ashish Joshi, IIRS
L-2, 6 th July 2021	14.30Hrs – 16.00Hrs	Basic classifier to Machine Learning – A Journey	Dr. Anil Kumar, IIRS
L-3, 6 th July 2021	16.00Hrs – 17.30Hrs	Python for Machine/Deep Learning Models	Shri Kamal Pandey, IIRS
L-4, 7 th July 2021	14.30Hrs – 16.00Hrs	Methods in Machine Learning: Supervised, Unsupervised and Reinforcement	Dr. Anil Kumar, IIRS
L-5, 7 th July 2021	16.00Hrs – 17.30Hrs	Fuzzy based machine learning with application in Temporal data processing.	Dr. Anil Kumar, IIRS
L-6, 8 th July 2021	14.30Hrs – 16.00Hrs	Network based Learning algorithms – ANN to CNN/RNN	Dr. Anil Kumar, IIRS
L-7, 8 th July 2021	16.00Hrs – 17.30Hrs	Deep Learning concepts through CNN, RNN, R-CNN, Faster RCNN, SSD, YOLO etc & their applications	Dr. Aparajita Ojha, IIIT Jabalpur
L-8, 9 th July 2021	14.30Hrs – 16.00Hrs	Generative Adversarial Networks for image transformation and their applications	Dr. N. Sudha, SASTRA University Thanjavur
L-9, 9 th July 2021	16.00Hrs – 17.30Hrs	Machine learning through Google earth engine	Shri Prasun Kumar Gupta, IIRS

(Anil Kumar)

Course Coordinator