

ISNET/ISRC Distance Training Course on Crop Type and Area Estimation by Remote Sensing Data; 16-17 April 2024

Monitoring crop type and area estimation is an important subject in food security of countries. Remote sensing methods have become an important means of extracting information related to crops. Nowadays, there are many remote sensing methods to estimate crop type and area.

Foregoing in view, ISNET in collaboration with Iranian Space Research Center (ISRC) organized an online training on “Crop Type and Area Estimation by Remote Sensing Data”. In this training, two important methods, named index-based and machine learning methods, were presented. The training covered how to apply an index-based method and a machine learning method to classify crop type using a time series of a satellite data imagery. Furthermore, principles of ground sampling and validation were introduced to verify the output results. At the end, a short section was dedicated to technical questions and answers. Over 40 participants from ISNET member countries and partner organisations attended the training course.

Field data collection by photo-interpretation
(A sample from Iran, Tehran province)

Image interpretation using NDVI time series, RGB images and expert knowledge about **crop calendar** and **phenology** of the studied area

True Color Sentinel-2 time series in Tehran province, Iran

Winter Cereals

Alfalfa

Participants (45)

ISNET (Host, me)

Talebi-ISRC (Co-host)

Abdul Hannan-PAK

Abid

Afrah Loay -IRAQ

Ahmadova Gunel

Alaa G. Khalaf / Iraq

ISNET Trg on "Crop Type a..."

Who you have any question

You to Waiting Room Participants 10:47

Kindly update you ID with Full Name, please.

Alaa G. Khalaf / Iraq 10:56

Dr. Alaa G. Khalaf from Iraq/ thank you very much

Who can see your messages? Recording On

To: Waiting Room Participants

Message ISNET Trg on "Crop Type and Ar..."