Space Applications Centre, Ahmedabad
and
IEEE Geoscience and Remote Sensing Society
announce three days training program on

Soil Moisture and Agricultural Monitoring using Microwave Remote Sensing

Venue: ***Space Applications Centre*** *(Bopal Campus),* ***Ahmedabad***
Feb 7-9, 2018

Space Applications Centre (SAC) has been playing an important role in utilizing space technology through its various applications for socio-economic development of the country. The centre is responsible for the development, realization and qualification of the payloads and related ground systems in the areas of communications, broadcasting, earth observations including remote sensing of natural resources, weather and environmental monitoring, etc. SAC is also a host institution for the training programs related to Satellite Communication and Meteorology activities of the Centre for Space Science & Technology Education in Asia and the Pacific (CSSTEAP) affiliated to the United Nations (UN).

IEEE Geoscience and Remote Sensing Society provides research and expert interaction opportunities and access to information on the theory, concepts, and techniques of science and engineering as they apply to the remote sensing of the earth, oceans, atmosphere, and space, as well as the processing, interpretation and dissemination of this information. IEEE GRSS has established six local chapters in India namely Ahmedabad, Bangalore, Mumbai, Delhi, Hyderabad and Kolkata (http://www.grss-ieee.org/community/chapters/). For membership, please follow the site at https://www.ieee.org/membership.

NASA-ISRO Synthetic Aperture Radar (NISAR) is being developed jointly by JPL/NASA and ISRO. While ISRO is developing S-band SAR, NASA/JPL is working for the development of L-band SAR. The L- and S- band SAR data from this satellite would be useful for a variety of applications including soil moisture and crop monitoring (https://nisar.jpl.nasa.gov/; http://www.sac.gov.in/nisar/). Thus, it is appropriate to create awareness on the use of SAR for soil moisture and crop monitoring using available SAR data from various missions.

Soil Moisture Active Passive (**SMAP**) is an American environmental research satellite launched on 31 January 2015. SMAP is designed to measure soil moisture over a three-year period, every 2-3 days. This permits changes, around the world, to be observed over time scales ranging from major storms to repeated measurements of changes over the seasons.(https://smap.jpl.nasa.gov/)

In view of this, SAC in collaboration with IEEE GRSS is organizing a three days meet on soil moisture and agriculture monitoring using microwave remote sensing from February 7-9, 2018 at Ahmedabad. The training program is open to young researchers, scientists, students and professionals, who intend to familiarize with basics of SAR, Radiometry, SMAP, NISAR mission and methods for analyzing SAR data for soil moisture and crop monitoring. Faculty for the program are drawn from University of Massachusetts, SMAP team, NASA/JPL and ISRO/SAC. IEEE would provide travel support (up to INR10,000) to limited outstation IEEE GRSS members participating in the training program, on request basis, which can be used for travel/accommodation or both. Reimbursement would be made during the training program on production of original receipt.

Certificate: Participation certificate would be provided on completion of the training.

Important dates

Registration: January 12-30, 2018
Confirmation of Registration: January 31, 2018

THERE IS NO REGISTRATION FEE for the training program. *Interested persons may send the filled-in registration form on or before 30th January to:*

Dr. Anup Kumar Das
Room No 4105
Scientist , MTDD/AMHTDG/EPSA
Space Applications Centre, ISRO, Ahmedabad 380015
Phone: 079-2691-4105, Email: anup@sac.isro.gov.in

Only limited number of participants can be accommodated in the training program. If more number of applications are received, the selection will be made on the basis of applicants' research area of interests and qualifications. Registered participants have to make their own arrangement for accommodation and transfer from railway station/airport/venue. However, limited accommodation may be provided at SAC/ISRO guest house on first-cum-first serve basis.

Training program
on

Soil Moisture and Agricultural Monitoring using Microwave Remote Sensing

(February 7-9, 2018)

Registration Form

(Please type or write in CAPITAL Letters)

Name: (Dr./Mr. /Ms. / Mrs.) : _____

Designation : _____

Institution Address : _____

_____

Phone : _____

Email : _____

Educational Qualification : _____

Research Interest / Present Research Area : _____

_____

Whether currently a member of IEEE (If Yes, write your IEEE Membership No.) : _____

_____

Whether travel support from IEEE is needed (for IEEE members only) : _____

Mailing Address : _____

_____

Contact Number : _____

Signature of the Applicant : _____

Date : _____

Recommendation from Head of the Department / Institution with seal