2021 IEEE Geoscience and Remote Sensing Society Summer School (GR4S)

on

Modeling in Microwave and Optical Remote Sensing

Beijing Normal University (China), 19th – 20th July 2021

IEEE Geoscience and Remote Sensing Society | **Beijing Normal University** | **State Key Laboratory of Remote Sensing Science**

Introduction

The 2021 IEEE GRSS Summer School (GR4S) on "Modeling in Microwave and Optical Remote Sensing" will be held in Beijing, China. It will be merged into the eleventh Beijing Normal University Summer School on "Land Surface Satellite Data Inversion and Applications".

Rational

Remote sensing using Earth-orbiting satellites, is one of the most effective tools for providing data that help researchers address global issues. In the past few decades, advances in remote sensing technology have greatly enhanced the potential applications of satellite data in many fields, and various models have been developed to transfer the raw satellite data into high-level products. This year's IEEE GR4S in Beijing will offer to the attendees an opportunity to gain excellent introductory knowledge in various remote sensing data processing and models.

The focus will be on Masters, PhD students and early scientists dealing with remote sensing and geosciences topics. The summer school is a contribution by the GRSS towards human capital development internationally, with a further objective of attracting the next generation of practitioners – today's students - to become aware of GRSS and its benefits.

Schedule

IEEE GRSS Summer School on Modeling （7.19-20）				
Time		**Content**	**Instructor**	**Institute**
7.19	8:30-8:45	Opening Remarks		
	9:00-10:20	Introduction of the optical remote sensing models	Qinhuo Liu	Aerospace Information Research Institute, CAS
	10:30-11:50	Microwave Remote Sensing Models: Introduction and Some Current Research topics	Leung Tsang	University of Michigan, USA
	14:00-15:00	DART: Remote Sensing and 3D radiative budget of natural and urban landscapes	Jean-Philippe Gastellu-Etchegorry	Paul Sabatier University, France
	15:05-16:05	LESS: A 3D radiative transfer model for heterogeneous vegetation canopies and its applications in remote sensing	Jianbo Qi	Beijing Forestry University
	16:10-17:20	Introduction the ‘Simulation platform for remote sensing mechanism models’ and demonstration	Donghui Xie	Beijing Normal University
7.20	9:00-10:20	Remote Sensing of Surface Urban Heat Islands: Progress and Prospects	Qihao Weng	Hong Kong Polytechnic University
	10:30-11:50	Earth Observation with Multitemporal SAR Observations and InSAR Techniques	Yong Wang	East Carolina University, North Carolina, USA
	14:30-15:50	Recent Advances in Spectral–Spatial Hyperspectral Image Classification	Jun Li	Sun Yat-Sen University
	16:00-17:20	SAR Polarimetry: Theory and Applications	Carlos Lopez Martinez	Universitat Politècnica de Catalunya, Spain

Registration

Interested students and researchers are encouraged to scan the following QR code or copy the registration link to fill in the registration information by July 18th.

Registration link: https://www.wjx.cn/vj/e3sWaIA.aspx

Teaching methods

Online Course

For any questions, please email Ms. Wei at crs@bnu.edu.cn, or call 010-58802179.

Organizer of the committee

July, 2021