

About INSTeG

Geoscience and Digital Earth Centre (INSTeG) is one of five research centre under Research Institute for Sustainable Environment (RISE), Universiti Teknologi Malaysia. The centre were created to gain the vibrant, innovative and productive research culture, apart from to maintain the status of a Research University. As a centre of excellence, INSTeG practices integrative and collaborative research which involves multi-disciplinary teams, knowledge and networking at national and international levels. Motivation, zeal and high level of research integrity are imperative related to ethic and values to reach really excellent outcomes. In the field of geospatial science and technology, INSTeG conducts research, provides consultancy and offers an educational program to national and international students. In order to be an excellent, INSTeG has installed a high level infrastructure .

This means, that experts are equipped not only with appropriate hard- and software to acquire, process and interpret different data but are also able to use an international network of experts to discuss, to inspire and to adjust themselves again and again to become excellent in their outcomes. INSTeG reflects and aligns the sense and benefit of research to the society before planning a research program. Only if the research result is useful for the national or international society our research is really excellent. As a result, the collaborative research will have an increasing importance in the future. It will become more and more important to share facilities and knowledge, to jointly reach a state to be able to find answers for the burning questions of our era. Excellence will be measured in future by the results of any research conducted. Egoistic ambitions will be a relict for the scientific archive.

INSTeG constantly improves its contact to other centres of excellence all over the world in order to work together, to reach an effect of synergy and to create a benefit for all related members involved in this process. Besides the different fields of expertise, the focus on human capacity and networking is a major strength of INSTeG. INSTeG starts practising a new style of communication flow and networking within the research process while the education of students and post-graduate students is included into the workflow of research. INSTeG sets new standards in research-networking.

Vision

To be a centre of excellence in research and development in geospatial science and technology.

Mision

To lead in research, training and consultancy services in geospatial science and technology.

Objectives

- To enhance professional knowledge and practices in geospatial science and technology through research, training and consultancy
- To spur geospatial services as a business towards contributing to the economy of the nation

Activities

- **ISPRS Student Consortium Summer School 2018**
Geoscience and Digital Earth Centre (INSTeG), Research Institute for Sustainability and Environment (RISE), Universiti Teknologi Malaysia (UTM) in collaboration with International Society of Photogrammetry and Remote Sensing Student Consortium (ISPRS SC) organized the ISPRS SC Summer School in conjunction with the 39th Asian Conference on Remote Sensing (ACRS

2018) in Kuala Lumpur. The summer school was held at Menara Razak of UTM Kuala Lumpur campus from October 20th to 24th, 2018 with the theme of “Big GeoSensing Data Ecosystem: Theory, Processing & Application”. This international event aims to provide an opportunity for students and young researchers to get into lectures from various eminent experts within the field of remote sensing, photogrammetry and geospatial information sciences.

- **Public Lecture : Sustainable Tourism Development in Protected Areas with Tropical Rainforests**
INSTeG hosted a public lecture entitle ‘Sustainable Tourism Development in Protected Areas with Tropical Rainforests’ by Prof. Dr. Shinya Numata from Tokyo Metropolitan University, Japan. It was held on 1 July 2019 at Universiti Teknologi Malaysia.
- **WESTPAC-ORSP for Coastal Habitat Mapping Workshop 2018**
The IOC Sub-Commission for the Western Pacific (WESTPAC) assists its countries, through its ocean remote sensing project (ORSP), to conserve coastal habitats by use of remote sensing in order to map the spatiotemporal distribution of coastal habitats, with an initial focus on seagrass beds. It was held from 25 February to 28 February 2019 at Universiti Teknologi Malaysia and INSTeG is a host for this international program. The objectives of this program was to review the progress and consolidate the results/outcome that were generated from previous UNESCO/JFIT funded activities, in particular those since early 2016. Also, this program was aim to analyze seagrass changes in time and space in all seagrass pilot sites, with the mapping results generated by the ORSP project, and discuss about the development of a book documenting these spatiotemporal changes.