

Suggested Topic: Remote Sensing Application: Capacity Building/Education

Paper Title: Innovative Research In Remote Sensing Applications for Geospatial Solutions at Universiti Teknologi Malaysia

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ABSTRACT

Universiti Teknologi Malaysia (UTM) is one of the few and earliest higher learning institutes in South East Asia region that offers Remote Sensing post-graduate programme leading to Master of Science and PhD degrees since 1987. This graduate programme was initially hosted in Faculty of Surveying where the undergraduate programme leading to Bachelor of Surveying was offered since 1970. With recent ranking of higher institutions in Malaysia in accordance to the Global University Rankings, UTM have alleviated to one of the four research universities in Malaysia, and have been accredited a 6-star for undergraduate programme in Engineering & Technology category. Research within the post-graduate programmes and the Centre-of-Excellences (COE) such as in Institute of Geospatial Science & Technology (INSTeG) are now welcoming more synergism from related industries; fulfilling the triple helix innovation environment in providing geospatial solutions to the industry apart from meeting the requirements of research fulfillments within the graduate programme and producing related articles indexed in SCI documents. We exemplified in this article sharing some recent completed works at INSTeG, where innovative applied research remote sensing applications involving geospatial solutions in sustainability, satellite oceanography for oil spills, tropical forest and biodiversity, exploration geology for mineral, aerosol and air pollution, and close-range subsurface utility sensing.