

IAF EARTH OBSERVATION SYMPOSIUM (B1)
Earth Observation Applications, Societal Challenges and Economic Benefits (5)

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OVERVIEW OF KHALIFASAT MISSION APPLICATIONS

Abstract

KhalifaSat was successfully launched on October 29, 2018 to pursue the successful journey of the space industry in the UAE. It will continue the services and applications for the end users all over the country with its high resolution imagery as an adherent for DubaiSat-1 and DubaiSat-2. KhalifaSat mission has three main objectives: developing a sub-meter optical satellite system utilized for observing and monitoring earth surface, establishing the infrastructure that hosted the manufacture of the spacecraft in-house and contributing locally and globally through providing high-quality imagery as well as value added products and services. KhalifaSat data can be beneficial in a variety of applications related to the environment, disaster management, land use/land cover mapping, object detection, change detection and projects monitoring. Most of these applications will be designed and developed based on deep learning framework. The objective of this paper is to highlight the potential applications and usages of KhalifaSat imagery in a variety of domains.