

Utilization Of Unmanned Aerial Vehicle (Uav) For Coastal Erosion Monitoring: A Review

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Abstract: Coastal erosion is regarded as one of the most pressing areas due to the development along the coastal lines that led to the host of problems such as sea level rise along the coast, siltation and loss of coastal resources. All these problems will occur continuously if no proper technical action is taken, study there problems and analysed it. Previously, there are many methods have been developed to monitor the coastal erosion such as using the total station, remote sensing technology, Global Positioning System (GPS) and etc. Recently, Unmanned Aerial Vehicle (UAV) has been developed which offer many advantages in several mapping applications such as slope mapping, coastal erosion studies and etc. The utilization of UAV systems also gives an opportunity for data interoperability, data integration and data sharing that applicable for the responsible agencies to monitor the coastal erosion and land such as state government, local authorities and land developer. The objective of this paper is to review the state of method of monitoring coastal erosion. The method practically and potential method of monitoring coastal erosion using UAV system is discussed too.

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