

INTRODUCTION OF IIS FIELDSURVEY SOFTWARE FOR iPhone AND GPS PHOTOS DATABASE

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ABSTRACT: GPS Photos Database for land use and land cover applications were introduced in ACRS 2010⁽¹⁾ with thousands of GPS photos taken in Vietnam, Laos and Myanmar. Every photo is stored in the database with the corresponding acquisition time, latitude, longitude, altitude, land cover type, description and other information. This paper introduces the IIS FieldSurvey software on iPhone as a tool for collecting GPS photos and a web server for GPS Photos database management.

The user can use an iPhone with the IIS FieldSurvey software installed to define the fields of data, take photos, get location information, specify the land cover type, and edit various fields of user-defined information. Depends on the particular purpose, the user can define the fields of data which is associated with a GPS photo in the format of latitude and longitude, text and list. Every time the user takes the photo using the built-in camera of iPhone, the IIS FieldSurvey software automatically retrieves the latitude, longitude, and altitude values of the user's position. After that, the user can specify the location of the object in the photo by editing the proper fields of data or touching on the map. All user-defined data can also be edited within IIS FieldSurvey software. The collected data can be extracted from iPhone via email, web or iTunes software with USB cable. A web server for GPS Photos Database is developed to allow the user import the data from IIS FieldSurvey software and efficiently manage user's data.

IIS FieldSurvey software for iPhone is available free on Apple Store.

(1) An Ngoc Van and Wataru Takeuchi, 2010. Development of GPS photos database for land user and land cover applications. *31st Asian conference on remote sensing (ACRS): Hanoi, Vietnam, 2010 Nov. 2.*