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Web-based GIS System for Real-time Field Data Collection Using Personal Mobile Phone

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ABSTRACT

Recently, use of mobile communicational devices in field data collection is increasing such as smart phones and cellular phones due to emergence of embedded Global Position System GPS and Wi-Fi Internet access. Accurate timely and handy field data collection is required for disaster management and emergency quick responses. In this article, we introduce web-based GIS system to collect the field data by personal mobile phone through Post Office Protocol POP3 mail server. The main objective of this work is to demonstrate real-time field data collection method to the students using their mobile phone to collect field data by timely and handy manners, either individual or group survey in local or global scale research.

KEYWORDS

Web-Based GIS System, Real-Time Field Data Collection, Personal Mobile Phone, POP3 Mail Server

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