



An application for delivering field results to mobile devices

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Mobile devices (MD) such as personal digital assistants (PDAs) and Smartphones expand the ability of Internet communication between remote users. In particular these devices have the possibility to interact with data centres in order to request and receive information. For field surveys MDs used primarily for controlling instruments (in case of field measurements) or for entering data needed for later processing (e.g damage description after a natural hazard). It is not unusual in areas with high interest combined measurements took place. The results from these measurements usually stored in data servers and their publicity is driven mainly by web-based applications.

Here we present a client / server application capable of displaying the results of several measurements for a specific area to a MD. More specific, we develop an application than can present to the screen of the MD the results of existing measurements according to the position of the user. The server side hosted at data centre and uses a relational data base (including the results), a SMS/MMS gateway and a receiver daemon application waiting for messages from MDs. The client side runs on MD and is a simple menu driven application which asks the user to enter the type of requested data and the geographical coordinates. In case of embedded GPS receiver, coordinates automatically derived from the receiver. Then a message is sent to server which responds with the results. In case of absence of Internet communication the application can switched to common Short/Multimedia Messaging Systems: the client request data using SMS and the server responds with MMS. We demonstrate the application using results from TEM, VES and HVSR measurements

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