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Sensor networks and GIS for water quality and anthropogenic factors assessment in estuaries

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Краткое описание

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Краткое описание

The purpose of this paper is to present wireless and mobile solutions as so as the developments reported by the authors in the area of geographic information systems to asses the anthropogenic factors influence on estuary life. Thus, a set of distributed measurement systems, including water quality and air quality sensors characterized by wireless data communication capabilities, are described in this paper. The received data from the wireless sensors nodes are transmitted to a host PC where the geographic information system (GIS) performs data processing, data management and data publishing tasks. At the same time, a local visualization of the data and the detection of critical alarm conditions is done using mobile devices, as PDA and smart phones. Solutions based on mobile devices programming are described in the paper. © 2012 TSI Press.

Ключевые слова автора

anthropogenic factors; GIS; measurement; water quality; wireless networks

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