Geoinformatics & Geostatistics: An Overview

Combining Automatic and Manual Image Analysis in a Very Web-Mapping Application for Cooperative Conflict Harm Assessment

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Remote sensing is progressively being employed by non-profit organizations and international initiatives to localize and document combat impacts like conflict harm. Most of the sensible applications place confidence in labour-intensive and long manual image analysis. Even once exploitation crowdsourcing or volunteer networks, the work will quickly become difficult once larger areas got to be monitored over longer time periods. during this paper, we tend to propose AN approach that mixes automatic amendment detection strategies with cooperative mapping in a very net application for conflict harm assessment in Darfur, Sudan. Settlement areas are mechanically detected and probe for destructed home structures by geographic object-based image analysis (GEOBIA). the net application prioritizes these areas supported the detected degree of destruction to guide human analysts to the foremost vital locations. in a very user experiment with thirty participants, we tend to evaluated the performance of volunteers with and while not the automated prioritization and investigated their mapping sequences. Participants WHO were target-hunting by the prioritization detected seventy.7% additional target objects than participants mapping while not steering, WHO endowed components of their mapping time in examining locations that show very little to no destruction.

This article explores the potential of web-based democratic mapping tools for urban coming up with functions and spatial info creation in informal settlements, i.e., the slums (barrios) of capital of Venezuela, Venezuela. whereas AN increasing use of mapping tools is found in developed countries, fewer applications ar found in informal settlements of developing countries, thanks to problems with high informality, illegality, and an absence of data, human and money resources. within the context of course-based mapping activities directed to neighbourhood Sector-level coming up with officers and action analysis, this study has used a two-tier approach (planning officers doing the mapping and eliciting complementary info from the population) to on-line democratic mapping (Google My Maps) for urban coming up with functions within the barrios of capital of Venezuela

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Our efforts aimed largely at characteristic and mapping public facilities, and planned and under-construction construction. This analysis aims to indicate the potential contribution of such tools to coming up with informal settlements and making locally-produced spatial info. The outcomes of the mapping courses have already proved to be helpful for coming up with public comes across Sectors and Communes, mutual thought of their priorities within the preparation of biennial development plans, and for increased awareness of native residents of communal councils.

Although Europe has been growing along for the past decades, cross-border info platforms on environmental problems ar still scarce. With relevance the institution of a web-mapping tool on mobile material (PM) concentration for the Euregion Meuse-Rhine set within the border region of European nation, FRG and also the Holland, this text describes the analysis on organized and technical backgrounds implementing such a platform. AN ASCII text file resolution was hand-picked for presenting the info in a very net GIS (Open Layers/Geo Ext; each JavaScript-based), applying alternative free tools for knowledge handling (Python), knowledge management (PostgreSQL), geo-statistical modelling (Octave), geoprocessing (GRASS GIS/GDAL) and net mapping (MapServer). The polyglot, made-to-order on-line platform provides access to near-real time knowledge on PM concentration similarly as further background info. In AN open knowledge section, commented configuration files for the net GIS consumer are being created offered for transfer. what is more, all geodata generated by the project is being revealed beneath property right and might be retrieved in varied formats or integrated into Desktop GIS as net Map Services

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