

The Hellenic National Cadastre: An Elemental Institution for Nurturing and Promoting Innovation in 3D Geospatial Data

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SUMMARY

The National Cadastre and Mapping Agency S.A. is the civil agency in Greece that is responsible for developing the Hellenic National Cadastre and supporting its operation. In additions, it is responsible for compiling, maintaining, and updating the basic cartographic infrastructure of the country, as well as, for disseminating the data stored in that infrastructure to various users in the public and private sector domains. In pursuing its mission, the NCMA not only focusses its attention on carrying-out its regular operations, as far as cadaster and mapping activities are concerned, but also fosters innovative activities in those areas, as well. Particular emphasis is placed on innovative work that deals with 3D data. This paper presents, in general terms, the cadastral and cartographic activities of the Agency and highlights its interests on innovative methods and techniques that deal with representation, management and displaying of 3D geospatial data.

BIOGRAPHICAL NOTES

Byron Nakos is a Professor at the Rural and Surveying Engineering Department of the National Technical University of Athens, Greece. Also, is President of the Board of Directors of the National Cadastre and Mapping Agency S.A. Prof. Nakos specializes in cartography, spatial analysis, geostatistics, GIS, and mapping. He has published numerous research articles on subjects that are related to fractal geometry theory in performing automated map generalization operations, lighting factors affecting relief presentation, hill-shading methodologies, road surveying methods for the assessment of road assignment, three dimensional visualization of built environment using digital ortho-photography, 3D visualization for representing destroyed settlements, eye tracking methods in cartographic research, and children's perception of cartographic landform representations and generalization transformations.

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