

18-24 June, 2015, Bulgaria

**15th INTERNATIONAL MULTIDISCIPLINARY
SCIENTIFIC GEOCONFERENCE
SGEM 2015**

Informatics, Geoinformatics and
Remote Sensing
CONFERENCE PROCEEDINGS
Volume I

INFORMATICS
GEOINFORMATICS
PHOTOGRAMMETRY & REMOTE SENSING

SGEM


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SCIENTIFIC GEOCONFERENCE
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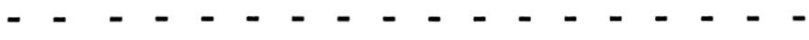


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TECHNIQUE OF CREATION INTERACTIVE VISUALIZATION OF 3D MAPS WITHIN THE UNIVERSITY CAMPUS

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ABSTRACT

Using three-dimensional modeling in GIS include the materials in the form of vector maps, satellite images, photographs, three-dimensional models, diagrams, plans, diagrams, graphs, tables, databases, multimedia and text documents.

A distinctive feature of system is based on web-technologies that can run on any computer from anywhere in the world via a standard web-browser (Internet Explorer, Mozilla Firefox, Google Chrome, etc.) and does not require installation on your computer, making the solution versatile, working on virtually at all operating systems and platforms (Glander et al.; 2012) and as noticed Jiann-Yeou Rau it also gives us 3-D virtual reality of environment through the internet.

All information systems stored in a single database that allows many employees to work in real time with a single and up to date information.

GIS based on 3-D modeling by fragmented computer animation used in Kazakhstan.

Web application used on the territory of Al-Farabi Kazakh National University exists a universal 3-D virtual model that allows us not only to show the 3-dimensional visualization engineering constructions and also shows what is inside building to provide a complete and accurate visual information about the infrastructure of complicated technical object, nature monuments, etc.

Modeling innovative and integrated 3-D model of the University territory by applying the geographic information systems (GIS).

In addition to the above guidelines the experience of constructing and using the basic 3-D model of urban space, it is appropriate to use to enhance the accuracy and relevance of the model point of laser reflections from studies of airborne laser scanning.

In this regard, the study of GIS using 3-D simulation gives the opportunity to work with spatial data that can give us more opportunity to multiple-scale strategy including block modeling, texture modeling and photo-realistic detailed modeling of research area.

Keywords: 3-D model, GIS technology, virtual model, geographic information systems, three-dimensional map, computer modeling.

CONCLUSION

In addition to the above guidelines set out in the form of conclusions based on the experience of constructing and using the basic three-dimensional model of urban space, it is appropriate to use to enhance the accuracy and relevance of the model point of laser reflections from studies of airborne laser scanning.

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