Geoinformatics & Geostatistics: An Overview

Perspective

An Overview on Geoinformation System Mapping Tools and Management of Computerized GIS Framework

Archana Gulia *

Introduction

Geographic information system is software framework which provide the ability to capture spatial and geographic data allowing user to create interactive queries with user-created searches, store and editing   spatial and non-spatial data analyzing spatial information output, and visually share these operations by presenting them in form of maps.it is useful for displaying and analyzing spatial data related to environment by giving new generation for environmental and given researchers measure travel time or calculating green spaces and many other satellite related research with numerous applications like engineering, planning, management, transport, telecommunication and business, location intelligences have foundation which rely on geographic analysis and visualization. GIS users detailed data sources that contain locational and attribute information on the built environment. This system provides information about the Earth space time with longitudinal, latitudinal, elevation of earth sphere.it is related to location or area information of natural phenomena like earthquakes, tsunami etc., and other less spatial locations like address, postal codes and regions of whole countries.

Description

Tools and software required for geo informatics information

Virtual Lab (v Lab) - The v Lab has ArcGIS, and Google Earth Pro. ArcGIS Online & ArcGIS for Desktop- GIS software is ArcGIS developed by ESRI was once a small land-use consulting firm which did not start developing GIS software. The ArcGIS desktop environment encompasses a suite of applications which include ArcMap, ArcCatalog, ArcScene and ArcGlobe. Browsed to search, explore, and analyze spatial data. Use the Enterprise login. When prompted for the URL enters Chicago. The Research Computing Center provides copies of ArcGIS for Desktop.

Google Earth Pro- Software for viewing, creating, and displaying spatial data and information

QGIS- It encompasses most functionality included in ArcGIS. Geo Da- The premier free and open-source tool for spatial analysis. Gg map for R-For those familiar with R/Studio, install the gg map package to visualize and analyze spatial data.

Band 5/6 ratio show greenish areas as being dominated by Fe-Mg silicate minerals like olivine and pyroxene useful in delineating intrusive rocks in the area.

D3-JavaScript library follow modern web standards. Create interactive, data driven web maps and charts.

GIS analysis use the spatial and non-spatial attribute data for answering questions about real-world

Scribble Maps-Like MS Paint for maps. Used to make simple map and export as an image. Google My Maps-A fun tool for getting started with web mapping.

Methods of geo information system

Data was collected from DMTI and the Langley Environmental Partners Society. Data was imported as shape files into ArcGIS. Files which not include a coordinate system, which was the system used by all other data.

Conclusion

In contagious pandemic or disastrous situation occurs accessing project site is not possible, feature extraction will play a vital role in collecting data for planning purpose, as it uses remote sensing and GIS technique, latest advancements in geoinformatics is development in science, and related to geology and earth geological surfaces.

*Corresponding author: Archana Gulia, Department of Pharmacy, Andhra, University, Visakhapatnam, India. E-mail: archanagulia040@gmail.com

Author Affiliation   Top

Department of Pharmacy, Andhra, University, Visakhapatnam, India.