SuperGIS Biodiversity Analyst 2.0

Specification Description

Biodiversity analysis

- Supports the importing of sample files in vector format to act as the sample area for biodiversity analysis, such as a grid region or the administrative border for town, county, and city, and so on.
- Displays the biodiversity analysis results in point or polygon layers.
- Users can enter conditions to select the data for analysis using SQL.
- Users can select the required biodiversity indices for the analysis from the three main categories of Richness, Evenness and Diversity, among which more than ten indexes are provided:
  - Richness: Richness、Margalef、Menhinick
  - Evenness: Pielou
  - Diversity: Shannon-Wiener、Simpson(D)、Simpson(1-D)、Simpson(1/D)、Mcintosh's、Hill、Eveness、Berger
- Users can illustrate and export density analysis charts using the analysis results of the selected index, through which the trend in the sample area can be obtained.
- Exporting density charts by the Mask method can present the density difference only within the sample area.

Landscape analysis

- Hundreds of landscape index formulas are supported, they can be divided into eight categories as below:
  - Area/density/Edge
  - Shape
  - Core Area
  - Isolation/Proximity
  - Contrast
  - Contagion/Interspersion
  - Connectivity
  - Diversity
- The indices of Landscape analysis results can be divided into Patch, Class and Landscape.
- Landscape analysis results can be exported and saved as CSV file

format.

- Image classification of data result is supported.

Support file format

- Vector files in GEO (SuperGeo GEO Format) and Shapefile formats are supported.

User interface and environment

- Can only be used on the Desktop SuperGIS platform.
- In accordance to the extensions of SuperGIS COM structure.
- User interface available in both Chinese and English.
- Complete Chinese and English user manuals.

System requirements

- CPU: Pentium II 266 or above
- RAM: 256MB or above
- Operating system: Windows 2000/Windows XP/Windows 2003 /Windows Vista