



SuperGIS Spatial Statistical Analyst 3.0

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Specification Description

Basic spatial statistics analysis

- Enables users to compile basic statistics on the sample data (point layer), including the sample count, average, maximum, minimum, quartile, variance, standard deviation, skewness coefficient, variance coefficient, kurtosis coefficient and so on.
- Enables users to review the distribution interval based on Divide and Interval.
- Enables users to review the data distribution via three types of charts: Quantile, XY Distribution, Trend, and Thiessen Polygon.
- Support to perform regression analysis with the attributes of the sample data.

Variography and Krigings

- Users can conduct covariance analysis and illustrate semivariograms.
- Provides users with various models for model fitting, such as Spherical model, Exponential model and Gaussian model and so on.
- Users can modify the parameters for Nugget, Sill and Range in the semivariogram.
- Users can set up the parameters of searching direction by themselves, such as Angle direction, Angle tolerance, and Bandwidth, to analyze the variance of the data in different directions.
- Various Krigings are provided:
 - ❖ Universal Kriging
 - ❖ Ordinary Kriging
 - ❖ Simple Kriging
 - ❖ Co-Kriging
 - ❖ Indicator Kriging
- Cross validation is provided via the cross validation chart and the measured values, predicted values, and error values of the paired



point data, through which the overall distribution of the estimated values can be reviewed.

- Users can obtain a linear regression equation and a linear regression chart for the sample data via Cross Validation.

Layer Export

- The property page of the results of Kriging allows users to set the symbology, layer display, and hillshade.
- Hillshade settings enable users to specify the z scale factor, azimuth, and altitude.
- Support to export the raster calculation results as an image file (SGR, LAN).

Support file formats

- 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/XP/2003/Vista/7 (32/64bit)