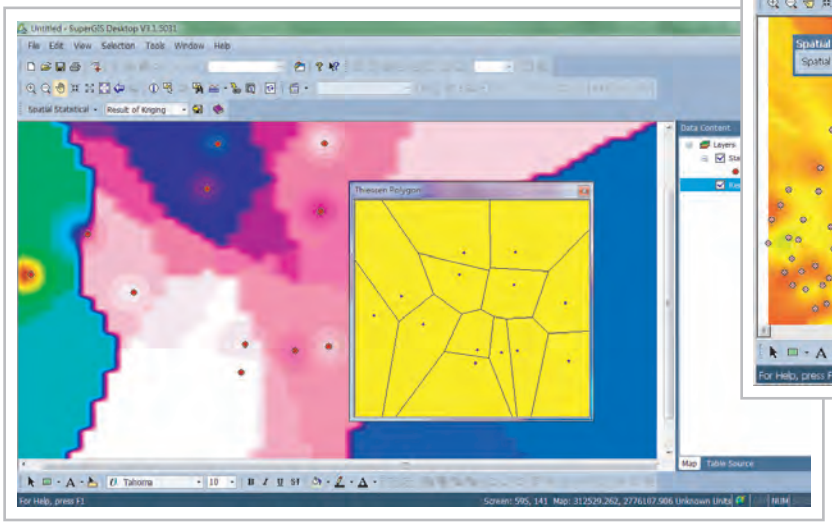
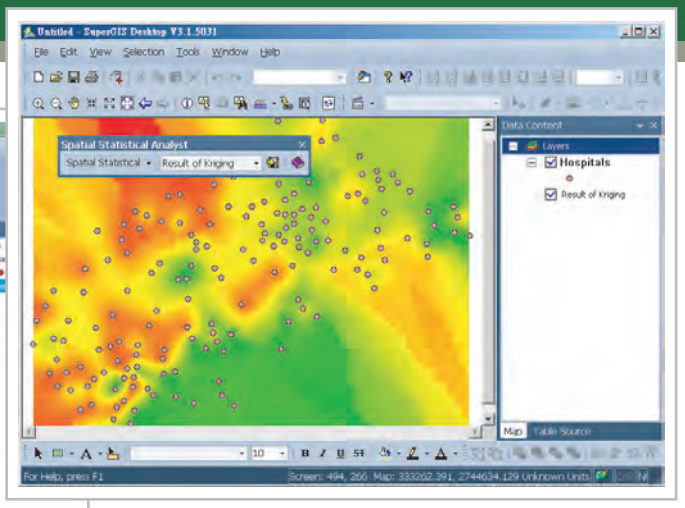
SuperGIS Spatial Statistical Analyst 3





SuperGIS Spatial Statistical Analyst 3, an extension of SuperGIS Desktop 3, integrates sophisticated geostatistical analysis methods and GIS technologies to perform various types of analyses for better decision-making. The analysis tools can perform basic geostatistical functions, as well as predict and model spatial phenomena. You can realize the variation and dependence of spatial data and the estimation of unsampled data in a logical and cost-efficient way.

The latest SuperGIS Spatial Statistical Analyst 3 features an easy-to-use interface and Thiessen Polygon to increase data analysis capabilities for users. In addition, the specialized analysis tool enables the professionals to easily investigate the distribution of data analyses, allowing you to understand the quantitative as well as qualitative aspects of the data.

Key features of SuperGIS Spatial Statistical Analyst 3

- Enable users to produce basic statistics on the sampled data including point, line and polygon layers.
- Offer Cross-validation and various Krigings methods to examine the estimated results.
- Kriging analysis newly supports IDW (Inverse Distance Weighted) and Polynomial Interpolation.

Applications

- Public Health
- Hydrology Research
- Agricultural Management
- Ecological Preservation
- Geology & Soil Science
- Scientific Research
- Environmental Planning

SuperGIS Spatial Statistical Analyst 3 performs the following functions

Variography and Krigings

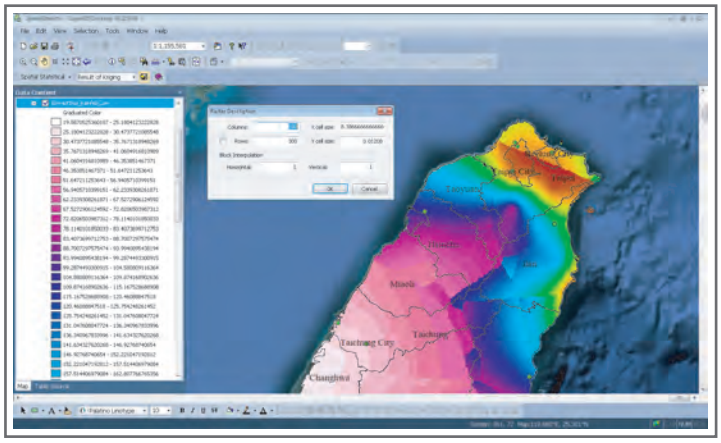
- Perform covariance analysis and model sketching of semivariance.
- Provide various models such as Spherical, Exponential, Gaussian, etc.
- Manually modify the parameter setting for Nugget, Sill and Range in semivariogram.
- Adjust the parameter setting of searching direction to carry out variance analysis for different directions.
- Improve prediction accuracy with Krigings models including Universal Kriging, Ordinary Kriging, Simple Kriging, Co-Kriging and Indicator Kriging.

Basic Spatial Statistical Analyses

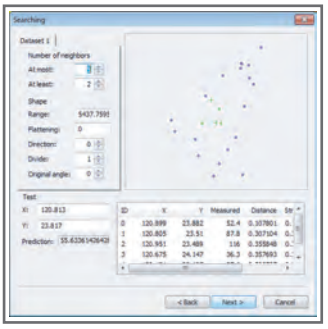
- Perform regression analysis for the attributes of sampled data.
- Review the data distribution through Quantile, XY Distribution, Trend, and Thiessen Polygon.
- Adopt Divide or Interval approaches to reviewing the distribution of data.

Layer Display

- Employ layer manager tools to achieve different results of symbology, layer disaplay, and hillshade.
- Display hillshade by adjusting the setting of Z scale factor, azimuth, and altitude.
- Export layers to an image file in SGR or LAN format.

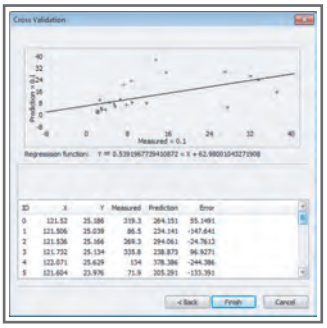


Employ Ordinary Kriging to examine the distribution map of January rainfall in Taiwan



Search neighbors

Create the model of semivariance analysis to obtain rainfall distribution



Examine the prediction and data variability with cross-validation analysis

■ Supported file formats
Vector files in GEO (SuperGeo GEO Format) and Shapefile formats are both supported.

■ System requirement
Windows 2000/ XP/ 2003/ Vista/ 2008/ 7 (32/64bit)

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