



E-Communicator

Case Study:

Ching-Kuo Institute of Management & Health, E-Communicator Camping on Campus

It's a goal for all educational units to materialize the campus environment into the real world. In order to provide campus related information for students, householders, and residents from the neighborhoods, Ching-Kuo Institute of Management & Health, cooperating with SuperGeo Technologies Inc., builds up a "PDA campus life and a life environment information system" by utilizing SuperPad Suite. The system successfully integrates PDA and GPS devices, and digitalizes campus life by displaying plentiful and detail information of food, clothing, living, and transportation around the campus on the map. This system provides not only the data query function but also accurate positions of the specific locations on the map and the surrounding Point of Interests information. Moreover, this system relies on the surveyors' hard work to enrich the shapefile and database.

Main Features~

- **Campus Resources Checking & Displaying Function**

According to the categories, the system sets up display layers as food, clothing, living, transportation, education and entertainment information. Surveyors while collecting field data should record the detail information for specific layers within PDA .

- **Positioning Function**

Including "Address Geocoding", "Street Positioning" and "Landmark Positioning".

- **Address Geocoding:** The system applies the positioning technology to the addresses provided by the users and retrieve the locations.(i.e. Rd, St, Ln, and Alley).

- **Street Positioning:** The system supports fuzzy street name search function. In other words, users inputs keywords of the street names and query information related to the keywords.

- **Landmark Positioning:** The system offers an easy, fuzzy search method, by keywords input, such as names of the landmarks, to locate any land mark on the map

- **Resource Detecting**

When a surveyor or user walks on the survey area carrying PDA with GPS devices, the system automatically shows the current location on the map center and displays the nearby Points of Interest information.

- **Fill in the Source Attributes Surveyed**

Some designed forms are created for surveyors to fill in while surveying.

- **Update Surveyed data to the Desktop or the Main frame.**

Surveyors can either update the date via wireless internet connections immediately or bring the data home and transfer it back into the system.

