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# IGUC Awards & Competitions

## 2004 Award for Innovative Raster Analysis

Sponsored by Intergraph and Keigan Systems, this contest recognizes and rewards individuals who solve complex spatial analysis problems using GeoMedia or GeoMedia Professional and GeoMedia Grid. All entries are displayed at GeoSpatial World. Judging is conducted on site by an internationally recognized panel, and winning entries are announced at the conference. In addition to professional recognition and acknowledgement of their achievement, winners receive cash prizes and complimentary registration to the following year's GeoSpatial World.

### Innovative Raster Analysis, First Place

**Recipient:** James Rickert, City of Hamilton, Ontario, Canada

**Project: Hamilton Library Study**

A geographic information systems (GIS) study was envisioned as a way to select locations and illustrate their suitability for future library services. GIS raster technology would be used to determine appropriate locations throughout the city based on the spatial analysis of a variety of geographic and business criteria. Factors such as distance buffers, natural geographic barriers, population densities and projections, and proximity to other amenities - including existing library services, recreation centers and arenas, bus routes, and roads - combine to form a mathematical model that can greatly assist planners and decision makers. Click here for a map that illustrates some of the individual criteria analyzed as well as the final composite map product indicating locational suitability.

### Innovative Raster Analysis, First Runner-up

**Recipient:** Bernhard Klingseisen , School of Geoinformation, Carinthia Technical Institute , Austria

**Project: Landform**

This project presents LANDFORM, a customized GIS application for semi-automatic landform classification based on the definitions of Speight (1990). A methodology was developed for an easy step-by-step procedure to generate landform elements. New custom commands for GeoMedia Professional were implemented using Microsoft Visual Basic and GeoMedia Grid objects. The classification results can be incorporated into protocols for determining homogenous land management units that can be used for site-specific crop-management approaches in precision agriculture.

Click here for a sample Landform map showing classification of slope areas.