

Abstract

ArcBurg a Promising Residential Burglary-Forecasting Modeling Extension

Track: Law Enforcement and Criminal Justice

Author(s): Kevin Switala

This paper describes a developing project originating in the City of Philadelphia Police Department and investigates a promising residential burglary-forecasting raster model. Burglary remains a primary concern citywide and serves as a precipitating crime for more violent and socially disruptive crimes such as robbery, assault, and drug use. This application assists in proactively determining weekly geographic areas at the block level that are most susceptible to burglary by statistically weighting normalized leading indicator raster layers. The resulting map of susceptibility gives commanding officers a valuable tool to utilize for more effective, proactive deployment of their resources.

Kevin Switala

Gannett Fleming

GeoDecisions

1515 Market Street

Suite 1530

Philadelphia , PA 19102

USA

Phone: 215-557-0106

Fax: 215-557-0337

E-mail: kswitala@geodecisions.com