Abstract

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A Custom ArcGIS Application to Improve Geocoding of Traffic Crashes
Track: Transportation
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Because of address and street data inaccuracies and data entry errors, Miami-Dade County, Florida, obtained a low percentage of address matches of bicycle and pedestrian crashes. The University of Florida then developed a custom ArcGIS application to correct the problem. Through a user-friendly interface the application validates the data entry by spell checking and editing, reconciles the address street information with the GIS streets database, performs a cascaded match using place alias and alternative street names, resolves multi-matched candidates by using spatial analysis, and provides manual verification mechanisms for unmatched addresses. In the end the match rate is up to 95 percent.

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