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## RESEARCH SNAPSHOT

# ESTIMATING PEDESTRIAN ACCIDENT EXPOSURE:

## AUTOMATED PEDESTRIAN COUNTING DEVICES REPORT

Automated technologies for counting vehicles have long been available. But the same cannot be said for counting pedestrians; most technologies available are used to detect pedestrians rather than to count them. In addition, they have been developed for use indoors, not outdoors.

Nevertheless, automated methods are attractive because they could cut labor costs related to manual counting and provide speedier data input and storage.

On the other hand, those technologies that are currently available are expensive and require specialized training to operate them.

This report describes and compares five automated pedestrian counting technologies: infra-red beam counters, passive infra-red counters, piezoelectric pads, laser scanners, and computer vision.

The choice of method must be based on the accuracy level desired, budget constraints, and data needs specifications.

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