DriveTracker: a novel traffic surveillance tool: description and comparison against current methodologies

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ABSTRACT

The world's growing population and increasing cars on the road require traffic surveillance and monitoring solutions which are cheap, scalable, accurate, and precise. Current solutions carry a high capital and maintenance cost and can be susceptible to failure due to numerous environmental factors. This paper describes the development of a novel smartphone application for use as a data collection tool and then compares it to existing data gathering methodologies. While further research is needed, this method holds significant promise, especially in international expansion and low-cost scalability.

KEYWORDS

ITS, speed, GPS, mobile sensing, scalable solutions

Note: Only the abstract is available for this thesis. Research is ongoing on this project. Please contact the author of this thesis directly for information.