

# Trust in Vehicle-to-Vehicle Communication

Boakye Dankwa, Rajeev R. Raje, Raghavendran Vijayan, Darsh Sanghavi  
Department of Computer and Information Science  
Indiana University Purdue University  
Indianapolis, Indiana, USA

**Abstract**—In traditional Pedestrian Automatic Emergency Braking (PAEB) system, vehicles equipped with onboard sensors such as (rader, camera, and infrared) detects pedestrians, alerts the driver and/ or automatically take action to prevent vehicle-pedestrian collision. In some situations, a vehicle may not be able to detect a pedestrian due to blind spots. Such a vehicle could benefit from the sensor data from neighboring vehicles in making such safety critical decisions. We propose a trust model for ensuring shared data are valid and trustworthy for use in making safety critical decisions. Simulation results of the proposed trust model show promise.

**Index Terms**—TODO; TODO; TODO;

## I. INTRODUCTION

TODO

## II. RELATED WORK

TODO

## III. PROPOSED TRUST MANAGEMENT SYSTEM FOR V2V-PAEB

TODO

1) *Measured Trust*: TODO

## IV. RESULTS AND DISCUSSIONS

TODO

## V. CONCLUSIONS AND FUTURE EXTENSIONS

TODO

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