The problem
Collisions between vehicles and vulnerable road users, including cyclists and pedestrians and trucks sideswiping cyclists on the road, is a well known problem. Professor David Cebon and Dr Yabon Jia from the Department of Engineering at the University of Cambridge have developed a clever solution to mitigate against this problem.

The solution
The technology consists of an array of ultrasonic proximity sensors that can be fitted along the side of the vehicle. These sensors are then combined with software that is able to compute the trajectories of the truck and cyclist. Measuring trajectories enables the system to detect the collision triggers, anticipate a collision and actuate the truck braking system to avoid the collision.

The system has been tested and provides significant benefits over current technologies in terms of its accuracy and effectiveness in detecting and preventing potential collisions. The system offers a 1.5m detection range and is a low cost system to implement.

Commercialisation
This technology has been published and is protected by patent application GB2541354A.

We are now looking for commercial partners interested in working with the University or independently to develop and commercialise this technology.

Professor David Cebon

David Cebon FREng is a Professor of Mechanical Engineering at Cambridge University and Director of the Cambridge Vehicle Dynamics Consortium.

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