From: Mark Tucker
Sent: lundi 15 mai 2006 17:58
To: TREN E3 CONSULTATION
Subject: PS Blind Spot Consultation A/22088

Dear Sir/Madam

I have been interested to look at your "FITTING BLIND-SPOT MIRRORS ON EXISTING TRUCKS" reference 'Blind spot mirrors - DG TREN E3' dated 12 April 2006. I thought you would be interested to know about alterative technology that is available to monitor blindspots.

I have recently been involved in some work in collaboration with MAN as part of the German Invent programme. A number of radars (24GHz and 77GHz) were placed around the host vehicle in order to detect nearby vehicles. A video lane detection provided lane information that enabled the vehicles to positioned with repect to the road as well as relative to the host vehicle. The information processed (using sensor fusion and tracking algorithms) facilitates driver assistance functions such as blindspot monitoring and lane change support. Audible warnings or visual warnings (e.g. icons in the wing mirrors) or even haptic warnings through manipulating the steering torque can be used to inform the driver of potentially hazardous situations.

I have published two papers on this system:
Tucker, M., Heenan, A., and Buchanan, A. “Implementation of a Sensor Fusion System for Driver Assistance” 5th European Congress on Intelligent Transport Systems and Services, ITS in Europe 2005, Hannover.

Tucker, M., Heenan, A., and Buchanan, A. “Real Time Embedded Sensor Fusion for Driver Assistance” to ITSC ’05 – 8th International Conference on Intelligent Transportation Systems, Vienna.

Please get in contact if you require any further information.

Best regards

Mark

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