



Accident avoidance by active intervention for Intelligent Vehicles

## Press Release

### CTU Participates in Research on Accident Avoidance System for Intelligent Vehicles

**Prague, May 24<sup>th</sup> 2011, Faculty of Electrical Engineering of the Czech Technical University in Prague (CTU) joined a European research project interactIVe. Its goal is to promote safer and more efficient driving by systems that can autonomously perform active intervention in some hazardous situations.**

The research project interactIVe started in 2010 as a consortium of 29 research partners from 10 countries. Its coordinator is Ford Research & Advanced Engineering Europe. The goal of the project is to create a next-generation interactive driver support system that enhances vehicle intelligence and increases the performance of the Advanced Driver Assistance Systems (ADAS) thus accelerating the safety of road transport. The first preliminary tests of demonstration vehicles on testing polygons are expected by the end of 2012.

Starting such an ambitious research project would not be possible without joining the resources of European automakers, their first-tier subsystem suppliers, and research institutions. The goal of the project is to create an integrated solution that will be affordable for all vehicle classes. This will strengthen the competitiveness of EU on the global market in the course of several years.

CTU participates in the development of a computer vision subsystem that is necessary for hazardous situation recognition and for continuous planning of the vehicle's manoeuvre when it supports the driver or when it takes control over the vehicle.

AS says the person responsible for the interactIVe project coordination at the Faculty of Electrical Engineering of CTU, Dr. Ing. Radim Šára of the Department of Cybernetics: „For us, such project is a great challenge. Not only are we members of a top team but we also have an opportunity to show that research and development of new technologies in the Czech Republic has a good tradition and reputation. The good name of CTU opens our best students an interesting opportunity to be close to the beating heart of European automotive industry, either by helping with the project at CTU or by becoming an intern at our industrial partners.“

The participation in the project was preceded by a long-term collaboration of the Department of Cybernetics of CTU Prague with a.s. Škoda Auto and later with Volkswagen Group Research.

## About CTU:

CTU provides high-quality university education through an extensive portfolio of primarily engineering branches of study, conducts basic and applied research and numerous scientific projects with great emphasis on industrial use and applications and closely cooperates with both domestic and foreign-based institutions.

CTU has altogether 24 000 students. In the academic year 2010/11, CTU offers 100 academic programmes and 385 branches of study within the scope of these programmes.

The university offers undergraduate and graduate programmes through eight faculties:

- Faculty of Civil Engineering,
- Faculty of Mechanical Engineering,
- Faculty of Electrical Engineering,
- Faculty of Nuclear Sciences and Physical Engineering,
- Faculty of Architecture,
- Faculty of Transportation Sciences,
- Faculty of Biomedical Engineering,
- Faculty of Information Technology.

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## Note to the editor

interactIVe is an Integrated Project supported by the European Commission Seventh Framework Programme of Information Society Technologies.

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Total cost: EUR 30 Million

Coordinator: Ford

Partners: Ford, BMW Group Research and Technology, Centro Ricerche Fiat, Daimler, Volvo Cars Corporation, Volvo Technology Corporation, Volkswagen, Autoliv, Continental, Delphi Delco Electronics Europe, Navteq, TRW, The Federal Highway Research Institute (BAST), The Galician Automotive Technological Centre (CTAG), German National Research Center for Aeronautics and Space (DLR), Institute of Communication and Computer Systems (ICCS), Institut für Kraftfahrzeuge – RWTH Aachen University (ika), Netherlands Organisation for Applied Scientific Research TNO, VTT Technical Research Centre of Finland, Lund University, Université Joseph Fourier Grenoble, Chalmers University of Technology, University of Passau, Czech Technical University in Prague, University of Trento, Allround Team, Alcor, European Center for Information and Communication Technologies EICT.

Website: [www.interactIVe-ip.eu](http://www.interactIVe-ip.eu)