

RESEARCH THEME: SAFETY AND INTELLIGENT VEHICLE SYSTEMS

INTELLIGENT TRANSPORT SYSTEM RESEARCH COLLABORATION

This research, training and technology knowledge collaboration between La Trobe University (Melbourne Australia), Tongji University (Shanghai China), Tsinghua University (Beijing China) and AutoCRC (Melbourne Australia), will foster research collaboration between the universities and also aim to attract involvement and support from both Australian and Chinese automotive companies.



Project Leader

Prof Jack Singh
La Trobe
P: 613 9479 3382

Project Participants: La Trobe

INTELLIGENT TRANSPORT SYSTEM TO IMPROVE ROAD/RAIL SAFETY

This project will deliver on specific aims: - a simulation platform for road/rail crossings based on 5.9GHz DSRC technology; a demonstrator system for lab-based tests; and to carry out field trials at a few road/rail crossing interfaces.

Project Leader

Prof Jack Singh
La Trobe
P: 613 9479 3382

Project Participants: La Trobe
Dept of Transport
QUT

EMBEDDED SPEAKER VERIFICATION

The voice biometric based driver authentication module developed as an outcome of the project will be suitable for use by car manufacturers and 3rd party automobile product manufacturerers to design control systems for intelligent vehicles including automotive adjustment of driver preferences, secure access to vehicles based on identity and logging/auditing functions.



Project Leader

Prof Sridha
Sridharan
QUT
P: 617 3138 2113

Project Participants: QUT

HUMAN FACTORS STUDIES FOR AUTOMOTIVE INTERIORS

Researchers at UniSA have developed significant capability in automotive ingress/egress research, and now have an excellent understanding of the research questions facing vehicle designers. Almost any human task can be studied, and medical, ergonomics or biomechanics researchers can use the UniSA facility to understand and solve ergonomics problems for healthier, safer, and more productive environments.



Project Leader

Dr Gunther Paul
UniSA
P: 618 8302 3632

Project Participants UniSA

ERGONOMICS AND HUMAN FACTORS RESEARCH

Ergonomics researchers at UniSA, having established a capability for studying and solving a range of ergonomic questions, required a dedicated laboratory for ergonomics projects. In this project, AutoCRC, UniSA and the South Australian Government, are investing in a world-class facility - ErgoLab. ErgoLab, when completed, will support exploration of the complete range of automotive ergonomics problems, resulting in improved product designs.

Project Leader

Dr Gunther Paul
UniSA
P: 618 8302 3632

Project Participants DTED (SA)
UniSA

COMFORT PROCEDURE FOR AUTOMOTIVE SEATING

This project is aimed at identifying the variables in automotive seating design that have the most significant influence on occupant comfort. Once identified, an appropriate selection of these variables shall be developed to define specific ranges and target metrics for seating products of specified markets and applications. A set of design guidelines and procedures that utilises relevant analysis tools and modelling methods will then be developed and validated in a product prototype.



Project Leader

Nathan Daniell
UniSA
P: 618 8302 1742

Project Participants

Futuris
UniSA