Projects with Jaguar Land Rover

Supervisors: Ben Graham (Warwick) and Thomas Popham (JLR)

Anomoly detection and fault prevention

JLR cars have a built-in data network to carry information between the car's different components as it operates. Logging this communication creates large volumes of information about the operation of the vehicle. The purpose of the project is to analyse this source of data to try to provide advance notice of developing faults, so that action can be taken before the vehicle develops a noticable fault.

The Self-Learning Intelligent Car Of The Future

Cutting-edge technology is being pioneered by researchers at Jaguar Land Rover to develop a truly intelligent self-learning vehicle that will offer a completely personalised driving experience and help prevent accidents by reducing driver distraction.

Using the latest machine learning and artificial intelligence techniques, Jaguar Land Rover's self-learning car will offer a comprehensive array of services to the driver, courtesy of a new learning algorithm that recognises who is in the car and learns their preferences and driving style. The software then applies this learning by using a range of variables including your calendar, the time of day, traffic conditions and the weather to predict driver behaviour and take over many of the daily driving 'chores', allowing the driver to concentrate on the road ahead.

The purpose of this project is to examine the applications of machine learning techniques to analysing and predicting driver behaviour.