Overview

The Queensland Department of Transport and Main Roads (DTMR) needed a map-based tool that would provide travellers with real-time traffic congestion information. QCIF and UQ researchers have developed software that uses data from the Transmaxx STREAMS traffic signal and intersection management system to deliver live traffic reports on all State arterial roads and freeways. Current road traffic conditions can be represented in colours on the DTMR website map, with green representing free flowing traffic, and red representing congestion. Dubbed ‘Coloured Roads’, this system is being integrated into the government-operated 131940 Travel Website with the aim of alleviating congestion by allowing travellers to make informed route choices before commencing their journey.
Outcomes

The Coloured Roads project combines the most current satellite imagery with STREAMS data to deliver live reports of traffic congestion in the South East Queensland area via a mapping system. Working with the Smart Transport Centre at QUT and DTMR, QCIF is continuing to enhance the product for research purposes, and for ongoing use by DTMR.

The Coloured Roads project represents state-of-the-art fusion capability between real time sensor data and map and terrain data.

Future Potential

The system is currently waiting to be deployed on the new Queensland Government travel information website www.131940.qld.gov.au. Enhancement to the product may include predictive travel time.

Project Participants:
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