

Special issue on Cybernetic City Transport Systems and Technologies

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FOCUS:

A Cybernetic Transport System (CTS) is a new form of public transport which, by offering on-demand and door-to-door services, bridges the gap between private cars and conventional public transport. This advanced transport system concept is comprised of: (i) a fleet of cooperative and environmentally friendly vehicles; (ii) cooperative road traffic management centre (which is in charge of optimisation of the road traffic flows) and (iii) human operators to supervise a smooth operations of the entire system. A fleet of CTS vehicles consists of cooperative driverless vehicles and also may include conventional vehicles if they are equipped with an advanced driver assist technology such as vehicle-to-vehicle communication, and vehicle-to-road infrastructure communication technology. It is envisaged that the CTS concept will offer a solution to sustainable urban mobility and extend the range and scope of the current urban transport system. CTS can provide solutions to either complement the existing transport system, or to replace it.

This special issue seeks submissions from scientists and researchers affiliated with both academic and industrial research institutes, as well as government institutions, on topics related (but not limited) to:

- Algorithms for Driving Manoeuvres by Driverless Vehicles
- Real-Time Decision Making by Driverless Vehicles
- Algorithms for Cooperative Driving by Driverless Vehicles
- Cybernetic, Driverless Vehicles-based, City Transport System Management Centre
- Cybernetic City Transport Systems Communication Architecture, Real-Time Data Structures and Communication Procedures
- Simulation Tool for Cybernetic City Transport Systems Performance Analysis
- Driverless Vehicle Architectures & Prototypes
- Vehicle-to-Vehicle Communication
- Vehicle-to-Road Infrastructure Communication

Submissions addressing practical applications and in-field experimental testing are strongly encouraged.

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- Notification of review results: 15 March 2010
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ELECTRONIC SUBMISSION & REVIEW PROCESS:

Letters of intent are not compulsory. However, the authors are strongly encouraged to inform Professor Ljubo Vlacic of their intention to submit a paper. Authors are advised to follow the electronic paper submission requirements, as per *the Information for Authors* published at http://www-arailab.sys.es.osaka-u.ac.jp/jrm/Information_for_Authors.html. The entire paper electronic submission process as well as the paper review process will be managed by Professor Vlacic via l_vlacic@fujipress.jp