



“Ontology-based architecture for Intelligent Transportation Systems using a Traffic Sensor Network”

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2016/10/17th (Mon) 13:30-14:30

Room 722 in 7th Floor, Bldg.4

For all graduate students and faculty members (Open seminar)

Reservation is not required (Free)

Abstract: Intelligent transportation systems are a set of technological solutions used to improve the performance and safety of road transportation. A crucial element for the success of these systems is the exchange of information not only among vehicles but also among other components in the road infrastructure through different applications. One of the most important information sources in this kind of systems is sensors. Sensors can be within vehicles or as part of the infrastructure, such as bridges, roads or traffic signs. Sensors can provide information related to weather conditions and traffic situation, which is useful to improve the driving process. To facilitate the exchange of information between the different applications that use sensor data, a common framework of knowledge is needed to allow interoperability. In this paper an ontology-driven architecture to improve the driving environment through a traffic sensor network is proposed. The system performs different tasks automatically to increase driver safety and comfort using the information provided by the sensors.

Career

2010-present *Researcher, Telematic Services Engineering research group (GIST),
University of Alcalá, Spain*

2013 *PhD in Information Technology and Communications
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2010 *Master of Math in CS University of Oriente, Cuba.*

An attendance certification will come upon an A4-page report submission. The report deadline is on October 24, 2016.