

Seminar

15 October 2013 16:00 -18:00

at

Meeting room A/B 2F, I-REF building, Yayoi Campus

the University of Tokyo

Graduate School of Information Science and Technology

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Cooperative ITS for autonomous driving

Intelligent transportation systems (ITS) are being deployed in many countries to solve many problems arising in transport such as safety, efficiency, pollution or economic costs. A number of technological advances make these systems viable such as increasing computer power or decreasing sensors costs. Communication and information sharing rose quickly in the last decades and we now see the possibility to couple all these systems, giving birth to cooperative systems.

At the same time we see introduction of autonomous cars onto the road (Cybercars in cities and Google cars like on motorways). This talk will explain some current challenges in these areas, especially focusing on the requirements made by such systems on the communication features that are needed. For example requirements derived from safety scenarios are not at all the same as the ones derived from efficiency scenarios. Many levels of cooperation are currently seen and we will illustrate our vision with various projects where such research is being carried (focussing onto Europe).