



Center for Traffic Research (CTR) inbjuder till seminarium:

Tid: Tisdag 17 mars, 14.00–15.00

Plats: Teknikringen 10, rum Nash/Wardrop, KTH, Stockholm.

Advanced Traffic Information and Management Systems – State of the Art and Future Challenges

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Cities all over the world are facing challenges regarding congestion and environmental concern in the traffic system and effective decision support tools for traffic information and management are part of the solution. The rapid development of new technologies for data collection and information distribution have contributed to the expectations for how an integrated system can work in the future. The features of such a system will include filtering and fusion of data from many types of sensors and data collectors, procedures for estimating the current state in the traffic system and for making short term predictions, and various tools for scenario analysis.

This seminar will give a state of the art overview of characteristics of these integrated traffic information and management systems, the evolution of their architectures and their main components and will discuss some examples of current implementations in real projects based on available commercial software. It will describe how they need to be developed to meet future expectations. A main concern here is the development of well-calibrated traffic models. An important aspect is also how the systems can be flexible and able to interact with other related systems, taking into account future needs and further technology and modelling developments.

Jaume Barceló has more than 30 years of experience of research and software development in the field of traffic engineering and modelling. Between 1986 and 1998 he and his team developed Aimsun, one of the most widely used traffic simulation softwares, which is currently commercialized by TSS-Transport Simulation Systems, another spin-off of UPC also set up by Prof. Barceló.

