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Preface

The increase in freight volume of goods and people in recent years related to the growth of the economy and mobility of people is a major cause of increasing congestion of the transport infrastructure and increased energy consumption, as well as a source of environmental and social problems. The answer to this problem cannot be limited to the expansion of existing infrastructures. The solution lies on the side of innovation, including the introduction of transport telematics systems.

Transport telematics systems means systems in which information technologies are used in the field of transport, including infrastructure, vehicles, and users. Intelligent transport systems are advanced applications whose goal is to provide innovative services for the various modes of transport and traffic management, and enable users to be better informed and make safer, more coordinated and “smarter” use of transport networks. Telematic services integrate telecommunications, electronics, and information technology in transport engineering in order to plan, design, operate, maintain, and manage transport systems.

Implementation and use of telematics applications and traffic and travel information services requires the processing and use of data on traffic and travel. For the realization of ITS applications innovative technologies are needed. Major stakeholders such as service providers, users, operators, industry representatives, social partners, researchers, professional organizations, and local authorities should be able to advise on technical and commercial aspects of ITS deployment.

This publication is intended primarily to serve this purpose. The book constitutes a collection of selected papers presented at the 11th transport telematics conference, TST 2011. Here I would like, on behalf of my colleagues from the Scientific Committee, to greatly thank the authors for the major contribution they have made in spreading knowledge on intelligent transport systems.

October 2011

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