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Nota di contenuto	Preface; Contents; Part I Deployment of ITS in Road Transport; Autonomic Transport Management Systems-Enabler for Smart Cities, Personalized Medicine, Participation and Industry GridIndustry 4.0 ; Abstract ; 1 Current State-Need for Action; 2 Expectations on Smart Transport; 3 Requirements on Smart Transport; 3.1 Emerging Requirements Caused by Changes in Industry; 3.2 Emerging Requirements Caused by Personalization of Medic Care; 3.3 Emerging Requirements Caused by Changes in Users Demands; 3.4 Emerging Requirements Caused by Ensuring Better Participation of Disabled and Elderly 3.5 Requirement Sustainability3.6 Influencing Traffic Requirements; 4 Approach for ATMS; 5 Overlay Descriptions for Personalized Travel

Planning; 5.1 Investigation Area; 5.2 Personas and Characteristics; 5.3 Dimensions and Penalty; 5.4 Challenges in Bringing Overlays to ATMS; 6 Using Simulations in Prediction of Traffic State; 6.1 Model and Simulation Environment; 6.2 Simulation Environments; 6.3 Integration of Simulation in ATMS; 7 Architecture of ATMS; 7.1 Incorporation of Sensors; 7.2 Requirements on Overlay Network; 7.3 Setup of Overlay Network; 7.4 Corporative ICT System
7.4.1 Asynchronous Routable Function Call7.4.2 Subscription Call; 7.4.3 Service Discovery; 7.4.4 Service Assessment; 7.5 Fault Tolerance by Local Intelligence; 7.6 Network Layer; 7.7 Data Broker and Data Provider; 8 Conclusions and Future Work; 8.1 Further Steps to Establish a Corporative ATMS Network; 8.2 Conclusions; References; Increase of City Transport System Management Efficiency with Application of Modeling Methods and Data Intellectual Analysis ; Abstract ; 1 Introduction; 2 Strategy of UNECE in the Field of Intelligent Transport Systems Development
2.1 Role of Intelligent Transport Systems in a Sustainable Development of Territories2.2 Directions of Transport System Safety Increase; 3 Prospects and Risks upon Transition to "Green" Transport; 4 Safety Increase Through System of the Car Technical Operation; 4.1 Cars Intelligent Onboard Systems; 4.2 Interaction with Service System for Increase of the Car Reliability; 5 ITS as Management System; 5.1 Management of Vehicles Fleet; 5.2 Priority Development of Public Transport; 5.3 Decision-Making Support Systems as Mode of Transport System Parameters Optimization
2 Traffic Flow Measurement

Sommario/riassunto

This book presents a discussion of problems encountered in the deployment of Intelligent Transport Systems (ITS). It puts emphasis on the early tasks of designing and proofing the concept of integration of technologies in Intelligent Transport Systems. In its first part the book concentrates on the design problems of urban ITS. The second part of the book features case studies representative for the different modes of transport. These are freight transport, rail transport and aerospace transport encompassing also space stations. The book provides ideas for deployment which may be developed by scientists and engineers engaged in the design of Intelligent Transport Systems. It can also be used in the training of specialists, students and post-graduate students in universities and transport high schools. .