Incident Management in Intelligent Transportation Systems

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Abstract
Since the conception of Intelligent Transportation Systems (ITS) in the 1980s, many transportation researchers have also worked on the development of incident management models and integrated systems for real-time operations. ITS created the required infrastructure for collecting, processing, and managing real-time traffic data that can be used to develop on-line incident management strategies. This book provides the reader with a broad picture of the overall incident management process in the context of ITS along with a quick review of the models and systems developed by numerous researchers worldwide. This book is a direct result of the long-term incident management research efforts at the Virginia Tech Center for Transportation Research. The initial work was performed under work order #DTFH71-DP86-VA-20 given to VDOT by FHWA. In addition to this initial contract, the FHWA Intelligent Transportation Systems Research Center of Excellence (RCE) program and VDOT sponsored different parts of the research described here.

Keywords
Electronic traffic controls; Intelligent transportation systems; Intelligent vehicle highway systems; Traffic congestion; Traffic flow; Traffic engineering

Disciplines
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Intelligent Transport Systems Department Faculty of Transport and Traffic Sciences. University of Zagreb. Sadko Mandžuka. Intelligent transport systems. Selected Lectures. Zagreb, 2015. Mobile communication and traffic incident 61 management process. V. the decision support system for disaster traffic 80 response management. VI. Intelligent Transport Systems (ITS) can be defined as holistic, control, information and communication upgrade to classical transport and traffic systems, which enables significant improvement in performance, traffic flows, efficiency of passenger and goods transportation; safety and security of transport, ensures more comfortable travelling for passengers, reduces pollution, etc. The publication “Intelligent Transport Systems for sustainable mobility”, funded by SINA - Società Iniziative Nazionali Autostradali - in Italy, was produced, initiated and prepared by the UNECE Transport Division in cooperation with the secretaries of the Division. The Transport Division wishes to express its sincere thanks to all those who contributed to this publication, either with articles or administrative services.