

A Study on the Development of the Emergency Response System of the Freeway Network in Taiwan

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ABSTRACT

The purpose of this study is to develop an effective incident management system for Taiwan Freeway system, which can aid to formulate various rescue plans upon emergency. Through extensive survey in the first stage, this study reviews the normal rescue processes including the scope of the tasks, the technique alternatives, and constraints that are likely to occur as the system is developed in Taiwan. Then, a series of standard procedures for various types and degrees of incidents are proposed for agencies to establish an effective and well-organized rescue teamwork command. Finally, a computer-aided decision support system is developed for agencies in dealing with all the aspects of the incident management system, such as detection and verification for emergency call, emergency response for multi-agency, site management, incident clearance, and motorist information.