

Risk management technique study research of road slope

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In the case with road slope disaster, nationwide road disaster prevention checks and traffic regulation under the abnormal climate conditions have been attempted, which has contributed to significant decrease in disaster frequency. However, there still are many remaining unstable slopes, and it has been required to revise the preliminary traffic regulation, based on the actual conditions, for implementation sites of countermeasure. In this study, sharing of information was attempted between road administrators in different countries and communities by using information infrastructure for road slope disaster prevention by GIS, and development of GIS system for road slope disaster prevention was studied in which one-dimensional operation was possible among hazard recognition for disaster prevention checks, daily management by the use of record, prediction of slope failure, preliminary traffic regulation, implementation of countermeasure, explanation support of the validity of measure selection, and feedback of past correspondence.

Keywords: road slope disaster prevention, hazard, GIS, monitoring, accountability