

5.2.2

Development of Web-Based GIS Tools for the Management of Transportation Infrastructure

Presenter

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Accurate and up-to-date road location and condition information are essential to transportation infrastructure management for a variety of purposes including traffic safety, construction projects, traffic engineering studies, evaluation of maintenance needs, planning, ambulance and rescue dispatch in emergency situations. However, accurate road infrastructure databases do not exist for vast areas, particularly in areas experiencing rapid expansion. In this presentation, we describe the development of Web-based GIS tools for the management of transportation infrastructure. These GIS tools were developed using ArcIMS and several programming languages. The GIS tools allow the users to create and update the transportation infrastructure on the Web. The presentation will also include the future direction of this project.