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Smart BRT Management System

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Abstract: Bus Rapid Transit (BRT) has increasingly become an attractive urban transit alternative in many developing cities due to its cost-effective and flexible implementation. However, it still seems difficult to introduce BRT to these cities because almost all their city structures have been built solely under a road transport development city plan which causes many problems, such as urban sprawl, traffic congestion, and air pollution. This system introduced several strategies to support BRT implementation in developing cities. These proposed strategies were evaluated by applying demand forecasting and emission models to the BRT project plan. It was demonstrated that the proposed strategies could effectively improve BRT ridership, traffic conditions, and air pollution emissions of the entire system. This study could be further extended to include strategy recommendations if a BRT system was introduced to other developing cities.

Keywords: Bus rapid transit (BRT), Intelligent Monitoring, Urban Public Transportation

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