

Abstract: A Decision-Making Framework to Evaluate Traffic Control Strategies on Freeway Work Zone

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Abstract

Road construction and maintenance activities cause significant impacts on traffic conditions. This paper developed a simple and practical work zone simulation model to provide a decision-making framework that can be used to evaluate various work zone traffic control strategies. This freeway work zone simulation model was programmed as Visual Basic language within a commercial spreadsheet program, EXCEL, in order to access and use easily. We expect that officials and contractors related to transportation will be able to make use of this software tool in regular work zone planning activities.