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Master Thesis Defense

Entitled

A HIERARCHICAL MODELING APPROACH FOR ASSESSING THE IMPACT FACTORS OF THE MEASURES OF MOBILITY AND SAFETY AT INTERSECTIONS

by

Hiba Eyesha Abou-Kassem

Faculty Advisor

Prof. Yaser Hawas, Department of Civil and Environmental Engineering
College of Engineering

Date & Venue

10:00 AM
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Abstract

Measuring safety and mobility for various types of intersections is crucial in any transportation study. Many factors contribute to changing the effectiveness of the different types of intersections on mobility and safety. Deciding which type of intersection is most suitable in a particular environ and prevailing traffic conditions depends on the number of crashes, injuries, delay time, etc. This study focuses on two intersection types; signalized intersections and non-signalized intersections (only roundabouts). The aim of this research is to devise a theoretical modeling framework and hence a statistical-based methodology that can be used to assess the safety and mobility measures of these two intersection types.

Keywords: safety, mobility index, signalized intersections, roundabouts, drivers' perception, regression models.