



Center for Advanced Multimodal Mobility Solutions and Education

UTC Project Information – CAMMSE @ UNC Charlotte	
Project Title	Use of Innovative Intersection Designs for Improving Mobility and Reducing Roadway Traffic Congestion
University	Texas Southern University
Principal Investigator	Yi Qi
PI Contact Information	(713)-313-6809 / qiq@tsu.edu
Funding Sources and Amount Provided (by each agency or organization)	The University of North Carolina at Charlotte: \$80,000
Total Project Cost	\$80,000
Agency ID or Contract Number	
Start and End Dates	1/15/17 – 11/30/17
Brief Description of Research Project	<p>Traffic engineers, their partner agencies, and developers increasingly have to consider the use of innovative intersection designs, including single-point urban interchanges, Michigan U, Super Streets, continuous flow intersections, to mitigate the congestion problems at conventional intersections. An innovative intersection is generally defined as any at-grade design concept that is able to reduce the number of traffic signal phases at the main intersection, thereby increasing the efficiency and capacity of the intersection and improving progression at the corridors.</p> <p>It is important to understand the applicable conditions for such</p>



Center for Advanced Multimodal Mobility Solutions and Education

	<p>intersection designs and how they are performing in terms of operations, safety, and their general public acceptance. The proposed research project is to systematically investigate the operational and design issues in the implementation of such innovative designs and to evaluate the operational benefits of these intersection designs. The outcome of the project will provide tools and guidelines for appropriately selecting the right locations and cost-effectively implementing of different types of innovative intersection designs.</p>
<p><i>Describe Implementation of Research Outcomes (or why not implemented)</i></p> <p><i>Place Any Photos Here</i></p>	
<p><i>Impacts/Benefits of Implementation (actual, not anticipated)</i></p>	<p>Project has not begun yet, so no impacts have been realized.</p>
<p><i>Web Links</i></p> <ul style="list-style-type: none"> • <i>Reports</i> • <i>Project website</i> 	<p>http://cammse.uncc.edu/research/current-projects/CAMMSE-UNCC-2017-UTC-Project-Information-08-Yi.pdf</p>