



<b>UTC Project Information</b>	
Project Title	<b>Development of a Prototype Safety Advisory System to Aid Older Drivers in Gap Selection</b>
University	University of Akron
Principal Investigators	Ping Yi and Yilmaz Sozer, Professors
PI Contact Information	Dr. Ping Yi, Department of Civil Engineering, The University of Akron, Akron, OH 44325-3905; Tel. (330) 972-7294; pyi@uakron.edu
Funding Source(s) and Amounts Provided (by each agency or organization)	CCAT - \$97,400 The University of Akron matching fund – \$97,400
Total Project Cost	\$194,800
Agency ID or Contract Number	69A3551747105
Start and End Dates	5/1/2019 - 12/31/2021
Brief Abstract of Research Project	This project proposes to conduct a concept design and feasibility test of a prototype safety advisory system for older drivers to enter the roadway from a minor road. With the increasing number of older drivers traffic safety for this group of people has become a more important issue than ever before. Compared with drivers of other age groups, older drivers (65 or older) are more susceptible to gradual degradation of perception and reaction ability, and decline in motor skills and coordination as they operate vehicles. The proposed system utilizes the data communication capability in the context of connected vehicles to help older drivers avoid unsafe traffic conditions. This feasibility study will include control logic development and field testing of the system.
Most Relevant CCAT Research Thrusts	Control and Operations
Describe Implementation of Research Outcomes (or why not implemented)  Place Any Photos Here	The proposed system will be tested at 2~3 selected senior citizen facilities in Akron, Ohio, where the outgoing traffic is controlled through a stop sign. A before-and-after study will be performed on gap acceptance by the older drivers. Field data on critical gaps, usable gaps, and rejected gaps will be studied to evaluate the effectiveness.

<p>Impacts/Benefits of Implementation (actual, not anticipated)</p>	<p>The benefits of the project include an assistance offered to older drivers for safer gap selection at roadway entrances. The pros and cons of different means of communication provided to older drivers on the type of gaps will be assessed.</p>
<p>Web Links</p> <ul style="list-style-type: none"><li>• Reports</li><li>• Project website</li></ul>	<p><a href="http://ccat.umtri.umich.edu">ccat.umtri.umich.edu</a></p>