

<b>UTC Project Information</b>	
Project Title	MPC-591 – Reliability-Based Traffic Safety Risk Assessment of Traffic System in Hazardous Driving Conditions to Promote Community Resilience
University	Colorado State University
Principal Investigator	Suren Chen
PI Contact Information	Professor Colorado State University Phone: (970) 491-7722 Email: suren.chen@colostate.edu ORCID: 0000-0002-3708-5875
Funding Source(s) and Amounts Provided (by each agency or organization)	USDOT, Research and Innovative Technology Administration \$56,000  Faculty and student time, CSU \$56,000
Total Project Cost	\$112,000
Agency ID or Contract Number	69A3551747108
Start and End Dates	February 26, 2019 to July 31, 2022
Brief Description of Research Project	Traffic crash risks considerably increase on bridges and connecting roadways under various hazardous driving conditions before and following some natural hazards, such as earthquakes, hurricanes, and snowstorms. During different phases of natural hazards, appropriate preparation, response and recovery efforts to improve the community resilience all depend on safe and efficient transportation even under hazardous driving conditions. This project will develop a basic framework to model traffic safety risk based on reliability theory by considering various adverse driving conditions, potential vehicle safety risks and associated uncertainties.
Describe Implementation of Research Outcomes (or why not implemented)	
Place Any Photos Here	
Impacts/Benefits of Implementation (actual, not anticipated)	
Web Links <ul style="list-style-type: none"> <li>• Reports</li> <li>• Project Website</li> </ul>	