<b>UTC Project</b>	
Information	
Project Title	Autonomous Emergency Navigation to a Safe Roadside Location
University	Virginia Tech
Principal Investigator	Tomonari Furukawa
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Funding Source(s) and Amounts Provided (by each agency or organization)	Safe-D funding: \$63,083 Matching funding: \$108,675
Total Project Cost	\$171,758
Agency ID or Contract Number	Grant No: 69A3551747115 Project: 03-073
Start and End Dates	1/15/18 - 12/31/18
Brief Description of Research Project	The project will enhance traffic safety of automated vehicle systems when road emergencies take place by enabling the vehicle to navigate autonomously to stop out of the travel path of following vehicles.
Describe Implementation of Research Outcomes (or why not implemented)	In this Phase I period, we will develop a technology to autonomously perform localization, mapping and road surface estimation. The capabilities and limitations of the developed technology will be investigated using recorded experimental data.
Place Any Photos Here	



Impacts/Benefits of Implementation (actual, not anticipated)

Up to now, there are no vehicles that are equipped with a capability to autonomously navigate the vehicle to a safe roadside location in an emergency. Situations requiring safe emergency stopping can happen from medical incapacitation, seizures, or falling asleep. The impact of developing this technology is very high.

## Web Links

- Reports
- Project website

https://www.vtti.vt.edu/utc/safe-

d/index.php/projects/autonomous-emergency-navigation-to-a-safe-roadside-location/