

Project Information Form

Reporting Period: 07/01/2015 – 12/31/2015

Project Title	Optimizing EMS Through The Use Of Intelligent Transportation Systems (ITS) Technologies
University	University of Alabama at Birmingham
Principal Investigator	Andrew J. Sullivan
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Funding Source(s) and Amounts Provided (by each agency or organization)	\$120,000 NCTSPM UTC-Federal \$80,000 ALDOT-State, \$40,000 FDOT-State
Total Project Cost	\$240,000
Agency ID or Contract Number	DTRT12GUTC12 NCTSPM 2012-064
Start and End Dates	10/4/2012-12/30/2014
Brief Description of Research Project	This project is investigating needs and opportunities associated with the use of ITS as a tool for improving emergency response and outcomes. More specifically, the study is examining ITS technologies and transportation management strategies to: a. Optimize deployment of EMS resources through positioning of first responders within the transportation grid and implementation of algorithms to facilitate Computer-Aided Dispatching (CAD) of emergency vehicles b. Mitigate non-recurrent incident induced congestion and its impacts on EMS responders and the general public. Use of active traffic management strategies (such as temporary shoulder lanes) and traffic signal preemption to allow quick access of first responders to the emergency site and/or the treatment facility will be also considered.



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Describe Implementation of	Draft report will be submitted to NCTSPM by March 30, 2016.
Research Outcomes (or why	Inconsistencies and weaknesses in some of the analysis were identified
not implemented)	and have required additional work. We believe the analysis related to
(Attach Any Photos)	EMS dispatch, location, and optimum travel routes has been addressed.
	Preparation of the final report is underway and should be completed in
	the next few weeks.
Impacts/Benefits of	Nothing to report at this time.
Implementation (actual, not	
anticipated)	
Web Links	N/A
Reports	
 Project website 	
.,	
Names of students who are	Ossama O. Ramadan (UAB)
financially supported by this	Yan Xiao (FIU)
grant	
Names of students who are	N/A
participating (but not	
financially supported) by	
this project	
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