

## **Project Information Form**

Reporting Period: 8/1/14 – 1/31/15

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	Initial research results presented at the ALASIM Conference on computer
Research Outcomes (or why	simulation in May 2014. Presented overview of analysis of dispatch and
not implemented)	travel times using real-time and historical travel time data. Also
(Attach Any Photos)	presented overview of simulation results related to advanced traffic
	signal control and EMS transport times.
Impacts/Benefits of	Nothing to report at this time.
Implementation (actual, not	
anticipated)	
Web Links	N/A
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<ul> <li>Reports</li> </ul>	
<ul> <li>Project website</li> </ul>	
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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	