

<b>UTC Project Information</b>	
Project Title	Estimation of Time-Dependent Intersection Turning Proportions for Adaptive Traffic Signal Control under Limited Link Traffic Counts from Heterogeneous Sensors
University	Purdue University
Principal Investigator	<p>Srinivas Peeta  Professor of Civil Engineering  Purdue University  peeta@purdue.edu</p> <p>Shou-Ren Hu, Co-PI  Associate Professor  Dept. of Transportation and Communication Management Science  National Cheng Kung University, Taiwan  shouren@mail.ncku.edu.tw</p>
PI Contact Information	See above
Funding Source(s) and Amounts Provided (by each agency or organization)	<p>\$77,000: NEXTRANS Center/USDOT  \$60,000: National Cheng Kung University (NCKU), Tainan, Taiwan.  \$17,000 Purdue University.</p>
Total Project Cost	\$154,000
Agency ID or Contract Number	DTRT12-G-UTC05
Start and End Dates	1/1/2013
Brief Description of Research Project	<p>This research seeks to estimate time-dependent intersection turning proportions using partial link traffic counts and observed turning proportions provided by heterogeneous sensor technologies.</p> <p>It will help transportation/highway management agencies determine a desirable sensor deployment plan in terms of how to prioritize the critical links for different sensor characteristics under an annual budget constraint. It will also illustrate that interdependencies arise between information and infrastructure in relation to the vehicles, and that they lead to complexities that require solutions as technology is increasingly leveraged in conjunction with the limited budgets. In terms of broader</p>

	<p>significance, several methodological approaches involving network-level solutions developed to leverage ITS technologies have been previously limited in terms of real-world deployment due to the unavailability of such O-D matrices. Hence, the proposed research has key practical implications for transportation agencies.</p>
<p>Describe Implementation of Research Outcomes (or why not implemented)</p> <p>Place Any Photos Here</p>	
<p>Impacts/Benefits of Implementation (actual, not anticipated)</p>	

Web Links <ul style="list-style-type: none"><li>• Reports</li><li>• Project website</li></ul>	