Project #11113 – Advanced Patrol Routing with On-Call Response for Effective Resource Management

http://utca.eng.ua.edu/projects/new_project_results.asp?new_project=11113&submit=search
Record Type: UTC

The novelty of this research is to offer innovative and effective solution methodologies and managerial insights for researchers and practitioners in the domain of public safety with regard to resource management. Although there have been other UTCA-sponsored studies addressing hotspot coverage (i.e. UTCA 09104), this proposed research is unique in that it considers the integrated optimization of the selection of intermediate patrol locations and determination of trooper patrol routes with dynamic on-call capabilities.

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Supplemental Notes
This research directly supports the UTCA theme, “Management and Safety of Transportation Systems,” in that the proposed work addresses the call for solution methodologies to maximize traffic efficiency and mitigate congestion. In particular, this proposal focuses on item I.1 (Mobility/Capacity) of the UTCA Annual Research/Training Plan by placing emphasis on the determination of mitigation strategies as well as the evaluation of potential transit alternatives that can be implemented in urban environments such as Mobile, AL.

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