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Using SAS/OR® to Improve Emergency Response Times with Better Ambulance Placement

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ABSTRACT

Using the new SAS/OR® procedures, SAS® and the San Francisco Fire Department analyzed emergency response operations to optimize ambulance locations, dispatch procedures, and operations to decrease response times. The first model was created as a planning model for initial placement of ambulances over the city of San Francisco. A second model was developed to determine how to best place remaining ambulances around the city when some number of ambulances are already out on an emergency.

This paper will address the model development and some of the complexity associated with implementing model results into real-time applications for use by non-technical consumers. It is intended for audiences not necessarily familiar with SAS/OR or optimization who would like to gain an understanding of how optimization can be valuable and practical, as demonstrated by a real life case study.

No paper was submitted for publication in the *Proceedings*.

CONTACT INFORMATION

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