Pleumpirom, Y., Amornsawadwatana, S.  
Multiobjective optimization of aircraft maintenance in Thailand using goal programming: A decision-support model  
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Abstract  
The purpose of this paper is to develop the multiobjective optimization model in order to evaluate suppliers for aircraft maintenance tasks, using goal programming. The authors have developed a two-step process. The model will firstly be used as a decision-support tool for managing demand, by using aircraft and flight schedules to evaluate and generate aircraft-maintenance requirements, including spare-part lists. Secondly, they develop a multiobjective optimization model by minimizing cost, minimizing lead time, and maximizing the quality under various constraints in the model. Finally, the model is implemented in the actual airline's case. Copyright © 2012 Yuttapong Pleumpirom and Sataporn Amornsawadwatana.  

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