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Monitoring perishable inventory using quality status and predicting automatic devices under various stochastic environmental scenarios

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**Highlights**

- Heterogeneity among customers is considered
- A random search algorithm combined with experimental design is utilized
- Incorporating TTI-based ADs increases expected profits under discounted prices
- Detecting ADs are superior to predicting ADs even under precise prediction of the latter
- Providing customers with a precise product's life-time deteriorates expected profits

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