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A Control-Chart-Based Queueing Approach for Service Facility Maintenance with Energy-Delay Tradeoff

Wenhui Zhou, Zhibin Zheng, Wei Xie

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**Highlights**

- We develop a service facility maintenance model with energy-delay tradeoff.
- The maintenance model integrates individual control chart with queueing approach.
- The proposed maintenance model is superior to the model without control chart.
- Our model is robust and performs well even parameters are not accurately estimated.
- It provides several insights for the optimal maintenance policy.

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