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Incorporating human factors-related performance variation in optimizing a serial system

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Highlights

- Occupational health effects have been rarely integrated in performance optimization models
- Poor ergonomic (human factors) design increases employee performance losses at work
- We develop a modeling approach considering health-related productivity and quality losses
- A cost optimization model is developed by integrating employee performance losses
- We evaluate the effects of the ergonomic design on a serial system's working performance

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