A Stochastic Delay Prediction Model for Real-Time Incident Management

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Jncertainty and limited in characteristic of incident match hem will always create erro	formation anagement. or.	are very Ignoring
	Incident A	Incident B
Duration	5 or 25	17
Expected duration	15	17
Delay using expected duration	225	289
	325	289
True expected delay		

















Simulation Results

Failing to account for uncertainty leads to **substantial** underprediction of incident impacts.

Profile	True average delay	Estimated delay	Underestimation
Uniform	179.60	106.22	41%
Rising	122.30	95.49	22%
Falling	343.58	159.04	54%
Peak	206.67	119.63	42%

Motivation * Theory * Simulation * Conclusion

impa Profile	Cts.	Fediction of	Incident
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