

## Accepted Manuscript

Circulation Network Design for Urban Rail Transit Station Using a PH(n)/PH(n)/C/C Queuing Network Model

Juanxiu Zhu , Lu Hu , Yangsheng Jiang , Afaq Khattak

PII: S0377-2217(17)30065-6  
DOI: [10.1016/j.ejor.2017.01.030](https://doi.org/10.1016/j.ejor.2017.01.030)  
Reference: EOR 14211



To appear in: *European Journal of Operational Research*

Received date: 25 February 2016  
Revised date: 18 January 2017  
Accepted date: 18 January 2017

Please cite this article as: Juanxiu Zhu , Lu Hu , Yangsheng Jiang , Afaq Khattak , Circulation Network Design for Urban Rail Transit Station Using a PH(n)/PH(n)/C/C Queuing Network Model , *European Journal of Operational Research* (2017), doi: [10.1016/j.ejor.2017.01.030](https://doi.org/10.1016/j.ejor.2017.01.030)

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### Highlights

- A queuing network model with feedback is developed for circulation network
- A matrix geometric and analytic scheme algorithm is developed to solve the model
- A optimization model with the blocking probability control is proposed
- A network-node optimization algorithm is extended to solve the optimization model

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