Accepted Manuscript

# Benchmarking online dispatch algorithms for Emergency Medical Services

C.J. Jagtenberg, P.L. van den Berg, R.D. van der Mei

PII: S0377-2217(16)30700-7
DOI: 10.1016/j.ejor.2016.08.061
Reference: EOR 13947

To appear in: *European Journal of Operational Research*

Received date: 26 April 2016
Revised date: 18 August 2016
Accepted date: 22 August 2016

Please cite this article as: C.J. Jagtenberg, P.L. van den Berg, R.D. van der Mei, Benchmarking online dispatch algorithms for Emergency Medical Services, *European Journal of Operational Research* (2016), doi: 10.1016/j.ejor.2016.08.061

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

**Highlights**

- Bounds the performance (fraction late arrivals) of online ambulance dispatching
- The 'closest idle method performs 2.7 times worse than the offline optimum
- The DMEXCLP dispatch heuristic is only 1.9 times worse than the offline optimum
- The value of information for realistic instances is thus lower than one may expect
- The competitive ratio for the dispatch problem is infinitly large

ACCEPTED MANUSCRIPT

Download English Version:

https://daneshyari.com/en/article/4960009

Download Persian Version:

https://daneshyari.com/article/4960009

Daneshyari.com