## Accepted Manuscript

A data-driven bi-level program for knowledge-based signal control system under uncertainty

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 PII:
 S0950-7051(18)30327-7

 DOI:
 10.1016/j.knosys.2018.06.031

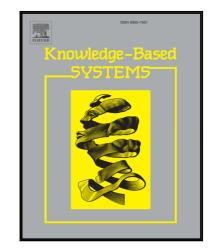
 Reference:
 KNOSYS 4410

To appear in: Knowledge-Based Systems

Received date:11 January 2018Revised date:19 June 2018Accepted date:20 June 2018

Please cite this article as: Suh-Wen CHIOU, A data-driven bi-level program for knowledge-based signal control system under uncertainty, *Knowledge-Based Systems* (2018), doi: 10.1016/j.knosys.2018.06.031

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## Highlights

- A data-driven knowledge system (DDKS) for traffic signal control is presented.
- A data-driven bi-level program (DDBP) is proposed.
- A knowledge based two-stage approach is proposed to effectively solve DDBP.
- Numerical computations using real-data city road network are made with recent state-of-the-art robust signal controls.

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