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

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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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