

UAV and Truck-Based Urban Logistics: A PRISMA Systematic Review of the State of the Art

Anonymous submission

Abstract

Protocol status. This manuscript is generated by a PRISMA-guided multi-agent workflow. Every count reported here is sourced from `data_processed/prisma_flow.json` and every citation from the screening decision log; no record is cited that was not screened in. Placeholder text is marked [TODO].

1 Introduction

[TODO] Motivate the growth of urban freight and the last mile as the dominant cost and emission bottleneck. Justify treating UAV-based and truck-based urban logistics as two independent lines of study rather than as a single integrated architecture.

Research gap. [TODO] State precisely what a systematic review of this scope contributes over existing narrative reviews of drone delivery and of urban freight routing.

2 Method

This review follows the PRISMA 2020 reporting guideline (Page et al., 2021).

2.1 Design and scope

Two independent thematic streams were searched and screened separately: **UAV** (drone-based urban logistics) and **TRUCK** (truck-based urban freight and logistics). Each included study is assigned to one stream during synthesis.

2.2 Information sources and search strategy

Searches were executed on [TODO: OPENALEX AND SCOPUS, EXACT DATES]. The Scopus API key is provisioned at a basic service level, which restricts retrieval to `count ≤ 25` and `start ≤ 4000` and does not permit cursor pagination; the `view=STANDARD` representation returns no abstracts. Abstracts were therefore obtained from OpenAlex.

2.3 Search strings

Reproduced verbatim from `config_ai/search_strategy.json`:

[TODO: PASTE EACH OF THE SIX QUERY STRINGS EXACTLY AS EXECUTED, LABELLED BY STREAM]

2.4 Eligibility criteria

Inclusion and exclusion criteria are listed verbatim in `config_ai/criteria.json` [TODO: RENDER AS AN APPENDIX TABLE].

2.5 Screening and selection

[TODO] Describe the deduplication key, the automated pre-screening pass, and the human-in-the-loop title/abstract screening procedure.

3 Results

3.1 Study selection

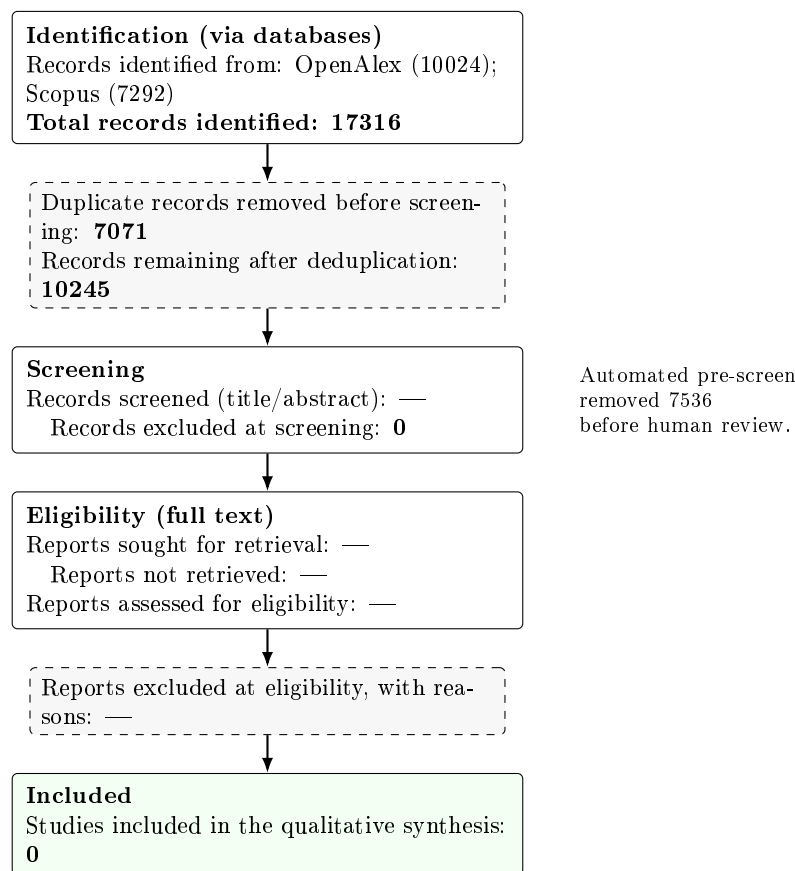


Figure 1: PRISMA 2020 flow diagram. Numbers are read directly from `data_processed/prisma_flow.json`.

[TODO] Report the identification, screening, eligibility and inclusion counts from the flow file, plus the per-query per-database table.

3.2 Bibliometric descriptives

[TODO] Publications per year by stream, leading venues, and most productive authors.

4 Taxonomy of the State of the Art

[TODO] Present the classification table: study → stream → sub-branch → main contribution.

5 Discussion

5.1 Cross-stream synthesis

[TODO]

5.2 Research gaps

[TODO] Enumerate gaps with supporting evidence from the included corpus.

6 Conclusions

[TODO]

7 Limitations

[TODO] Must disclose: (i) Scopus basic service-level truncation, with exact retrieved-versus-reported figures for any truncated query; (ii) absence of Scopus abstracts; (iii) screening of abstract-less records on title and keywords only; (iv) the English/Spanish/Portuguese language restriction.

References

Matthew J. Page, Joanne E. McKenzie, Patrick M. Bossuyt, et al. The prisma 2020 statement: an updated guideline for reporting systematic reviews. *BMJ*, 372:n71, 2021. doi: 10.1136/bmj.n71.