CASE STUDY

Artificial intelligence (AI)-supported systematic review for rapid insights

The challenge

Systematic reviews are time consuming but require a high level of accuracy. Many AI tools for systematic review (SR) have become available, but their use needs to be carefully weighed against a potential lack of reproducibility and inaccurate SR results.

Our approach

- To speed up the review process, we carefully considered available tools and chose to use AI during the title and abstract screening step.
- We used ASReview, a machine learning tool that prioritises records based on reviewer decisions, and enables researchers to find all relevant record.
- This approach enabled researchers to find relevant reports earlier in the screening process and to stop the review screening without screening the whole sample and without missing relevant records.

How we made a difference

- With the use of innovative screening methods, we were able to progress through the review stages more efficiently, and deliver more quickly, compared with a fully manual approach.

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