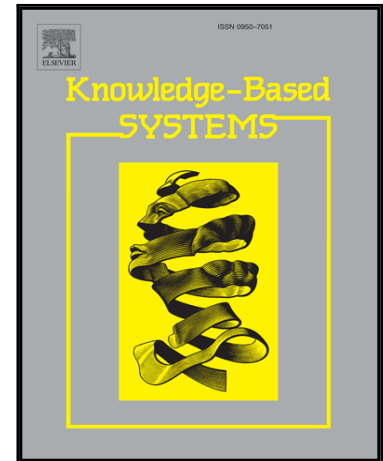


## Accepted Manuscript

A Multi-Constraint Learning Path Recommendation Algorithm Based on Knowledge Map

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**Highlights**

- Four learning scenarios and seven kinds of path constraint factors are proposed.
- The multi-constraint model of path recommendation is constructed.
- A multi-constraint learning path recommendation algorithm is implemented.
- We verified the similarity of self-organized path and the recommended path.

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