















Filtering Algorithm

- When the threshold is high, the precision is high, but the recall can be low.
- When the threshold decreases, the recall increases, but the precision can decrease.

(2, B)

(3, F)

(6, D)

 $th = -\frac{(4, C)}{(5, C)}$

(5, E)

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Dutline
Introduction
Structure-based filtering

Basic ideas
Algorithms
Implementation

Evaluation
Conclusion



Algorithms

- Find a consistent suggestion group from the pairs with similarity values higher than or equal to the upper threshold
- Use the consistent suggestion group to partition the original ontologies
- Filter the pairs with similarity values between the lower and upper thresholds using the partition

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Implementation Find a (maximal) consistent suggestion group A genetic algorithm is used Partition original ontologies Based on a binary tree built from ontologies 17

Outline

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- Structure-based filtering
- Evaluation
- Conclusion

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Outline

- Introduction
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Conclusion

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 Proposed a novel structure-based method for filtering alignment suggestions

- The method gives good results in the experiment.
- In the future, we will investigate the use of the partition to increase the recall.

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