

Technical Report “A Linguistic Approach to Improve IR-based Traceability Recovery”

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Abstract

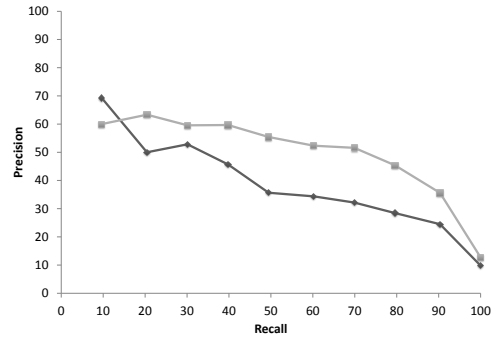
This technical report contains details of technical results obtained in the performance of paper “A Linguistic Approach to Improve IR-based Traceability Recovery”’.

In particular Figures 1, 2, 3, 4, 5, 6, 7 show the Precision/Recall curves achieved in order to answer to the following research question:

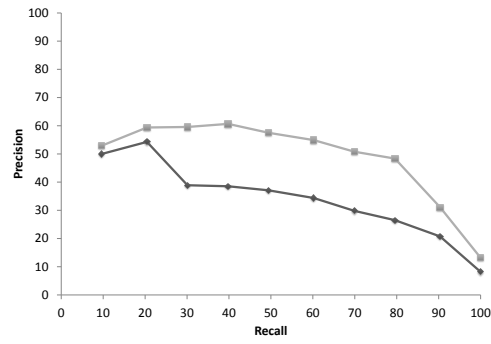
Does the proposed indexing process improve the accuracy of IR-based traceability recovery methods?

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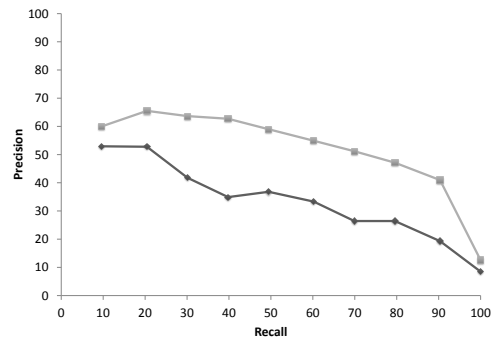
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(a) Curve Precision/Recall achieved by VSM



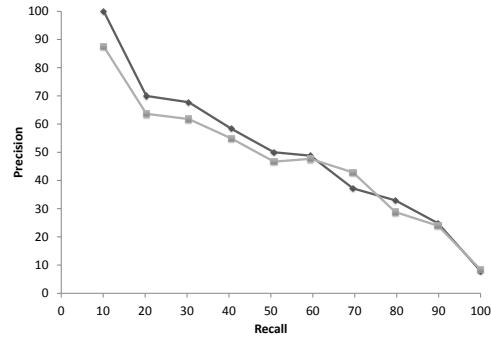
(b) Curve Precision/Recall achieved by LSI



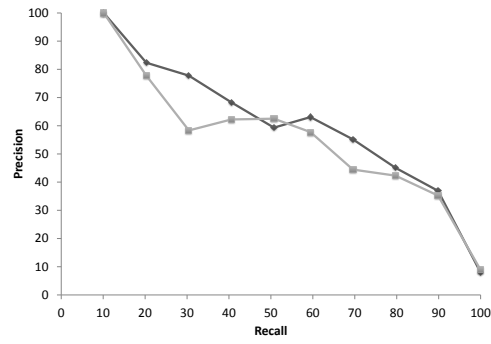
(c) Curve Precision/Recall achieved by JS

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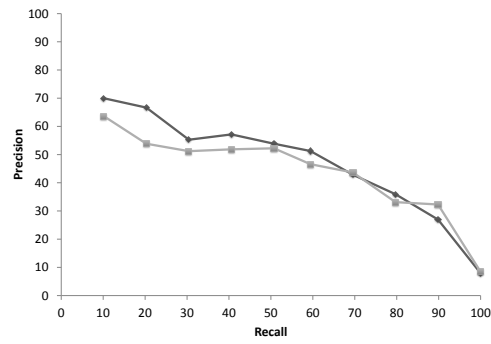
Figure 1: Precision/Recall curves achieved tracing UC onto CC on EasyClinic.



(a) Curve Precision/Recall achieved by VSM



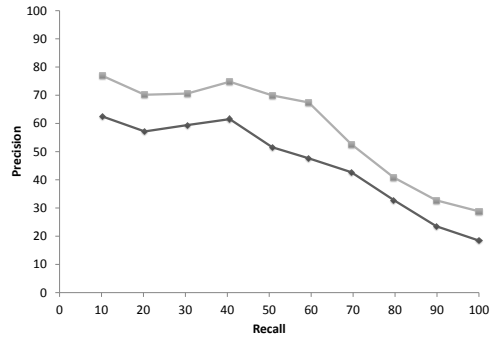
(b) Curve Precision/Recall achieved by LSI



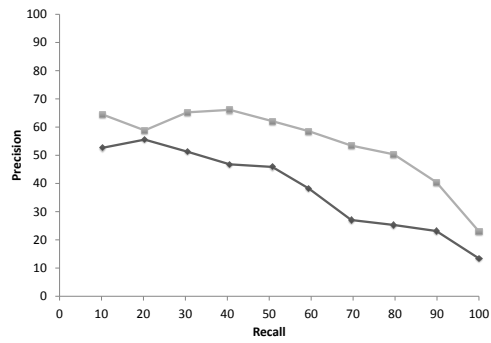
(c) Curve Precision/Recall achieved by JS

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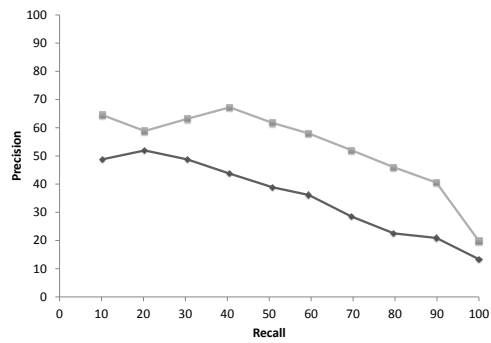
Figure 2: Precision/Recall curves achieved tracing ID onto CC on EasyClinic.



(a) Curve Precision/Recall achieved by VSM



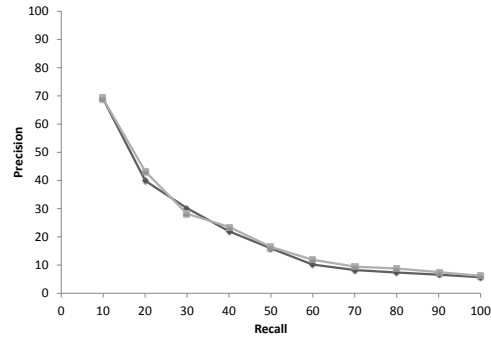
(b) Curve Precision/Recall achieved by LSI



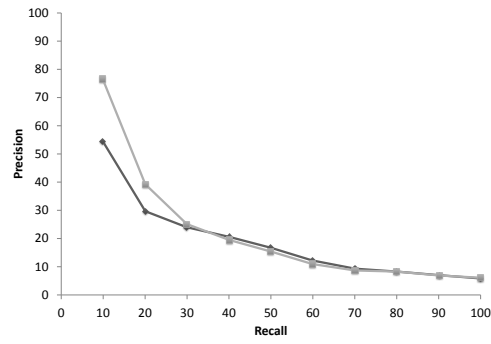
(c) Curve Precision/Recall achieved by JS

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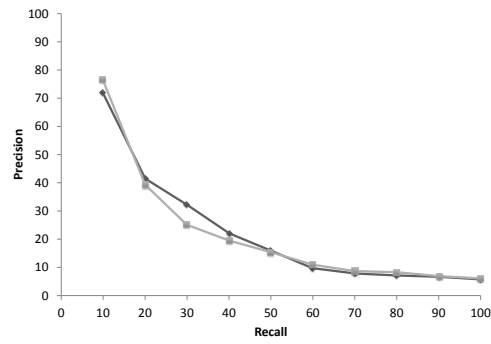
Figure 3: Precision/Recall curves achieved tracing TC ases onto CC on EasyClinic.



(a) Curve Precision/Recall achieved by VSM



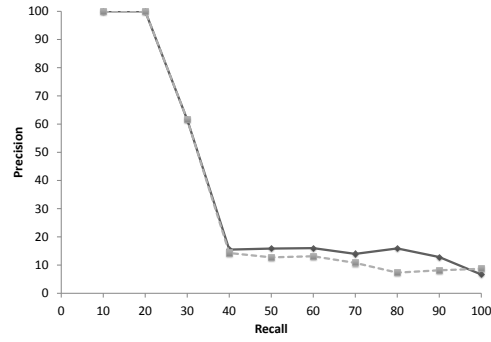
(b) Curve Precision/Recall achieved by LSI



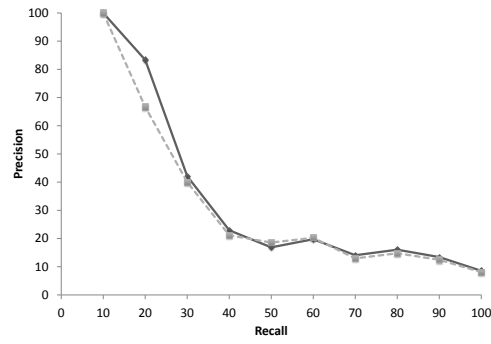
(c) Curve Precision/Recall achieved by JS

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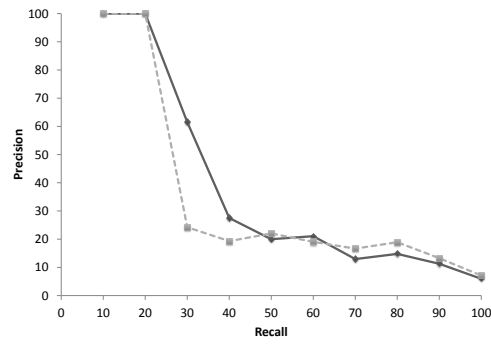
Figure 4: Precision/Recall curves achieved tracing UC onto CC on e-Tour



(a) Curve Precision/Recall achieved by VSM



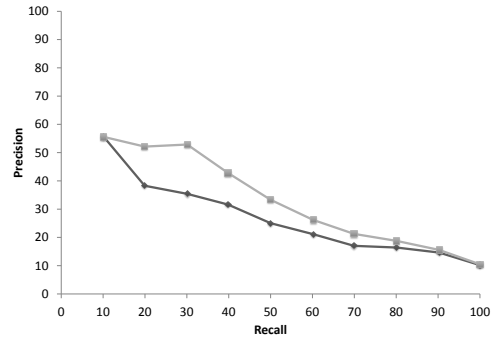
(b) Curve Precision/Recall achieved by LSI



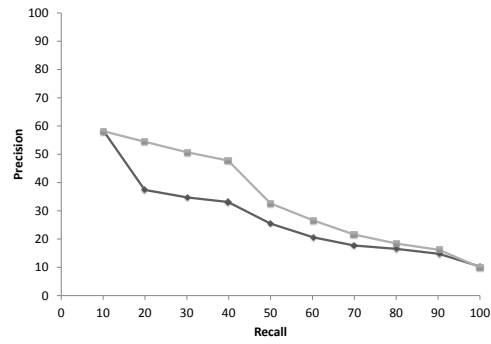
(c) Curve Precision/Recall achieved by JS

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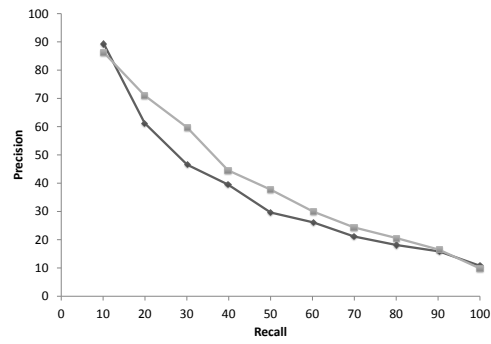
Figure 5: Precision/Recall curves achieved tracing HLR onto LLR on Modis



(a) Curve Precision/Recall achieved by VSM



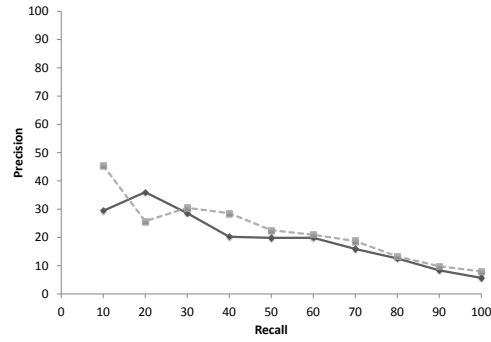
(b) Curve Precision/Recall achieved by LSI



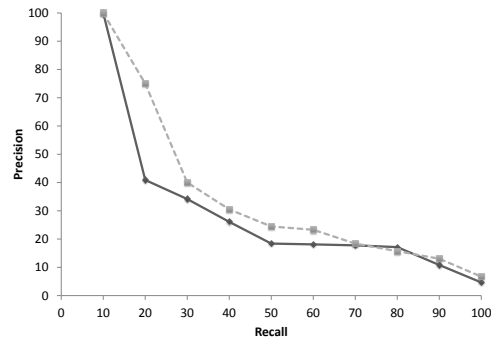
(c) Curve Precision/Recall achieved by JS

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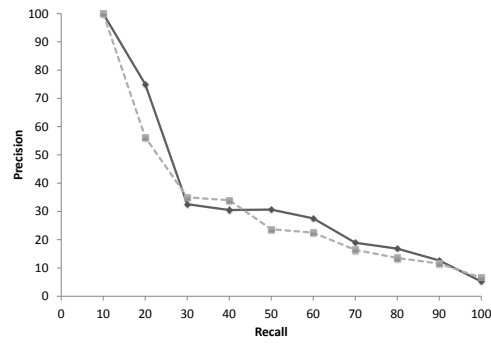
Figure 6: Precision/Recall curves achieved tracing HLR onto UC on Pine.



(a) Curve Precision/Recall achieved by VSM



(b) Curve Precision/Recall achieved by LSI



(c) Curve Precision/Recall achieved by JS

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Figure 7: Precision/Recall curves achieved tracing HLR onto LLR on CM1.