FUTURE SCOPE

Note that the tools summarized in this review are from the 263 application articles and that many IE tools, such as TextHunter [[85]](https://www.sciencedirect.com/science/article/pii/S1532046417302563#b0425), Patrick et al’s cascaded IE tool [[86]](https://www.sciencedirect.com/science/article/pii/S1532046417302563#b0430), KneeTex [[87]](https://www.sciencedirect.com/science/article/pii/S1532046417302563#b0435), Textractor [[88]](https://www.sciencedirect.com/science/article/pii/S1532046417302563#b0440), and NOBLE [[89]](https://www.sciencedirect.com/science/article/pii/S1532046417302563#b0445), in the 27 tool articles and the 125 methodology articles (many of them are participant systems in shared tasks) are not included in this review and subject to a future study.

Fourth, the articles utilizing clinical narratives from non-EHR systems, such as [clinical trials](https://www.sciencedirect.com/topics/medicine-and-dentistry/clinical-trial) [[184]](https://www.sciencedirect.com/science/article/pii/S1532046417302563#b0920), are not considered in this review.