

# Ontology-Based Interactive Information Extraction

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Interactive Information Extraction brings together search and information extraction to provide fast, interactive text mining over large volumes of text such as Medline abstracts, full text scientific articles, patents etc. As well as covering the two ends of the spectrum: keyword search over documents, and detailed linguistic patterns within sentences, the Interactive Information Extraction System, I2E, also covers the points in between such as keywords within the same sentence, or co-occurrence of biological entities within sentences or documents. This talk briefly introduces the idea of Interactive Information Extraction, and describes how terminologies/ontologies are incorporated. We also show how I2E can be used to augment ontologies by finding potential synonyms or members of classes from the literature using linguistic patterns. Finally we discuss issues concerning how best to use ontologies for text mining.