With the huge amount of information available online the World Wide Web is a fertile area for data mining research. The Web has become a major vehicle in performing research and education related activities for researches and students. Web mining is the use of data mining technologies to automatically interact and discover information from web documents, which can
be in structured, unstructured or semi-structured form. We present an enterprise framework regarding semantic web mining in distance learning, which can be used to not only improve the quality of web mining results but also enhances the functions and services and the interoperability of long distance educational information systems and standards in the educational field. For on line distance education system we propose an Ontology-based approach to share online data and retrieve all relevant data about students and their courses. Thus semantic web ontology help build better web mining analysis in educational institute and web mining in-turns helps contract basis more powerful ontology in distance learning. Since the majority of the online data considered as private data we need various mechanism for privacy preservation and control over the online presence data. We propose privacy protection in semantic web mining using role back access control.

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**Index Terms**

- Computer Science
- Data Mining

**Key words**

- Semantic web mining
- Association Mining
- Ontology

- OWL
- RDF
- XML
- RBAC