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E-mail address: vuresearchportal.ub@vu.nl The knowledge in software architecture documentation should be retrieved quickly **L** and correctly, to prevent wasted time and errors in software projects. Retrieving knowledge from file-based documents is often difficult. Can we improve knowledge retrieval efficiency and effectiveness using ontology-based architecture documentation? This question guided four years of doctoral research reported in this thesis, which investigates and compares knowledge retrieval from file-based and ontology-based architecture documentation.

Ontology-based Software Architecture Documentation

Klaas Andries de Graaf

This thesis details on;

- An ontology-based documentation approach.
- An ontology engineering approach.
- Industrial case studies.
- Search behaviour analysis.
- **Experimental evaluation** of knowledge retrieval efficiency and effectiveness.
- An analysis of how knowledge organisation affects knowledge retrieval.
- **Cost-benefit analysis.**
- **Oualitative evaluation via** surveys.



