OPOSSum – An Online Portal to Collect and Share Semantic Service Descriptions
Towards Common SWS Test Collections

Problem
- Too few comparative evaluations of SWS approaches
- Critical lack of sufficient high quality common test data
- Standard test collections must be built collaboratively
- Requires infrastructure and tool support

"Where are all the Semantic Web Services today?" [1]
- Next to no (65) SWS outside of two collections
- Only 29 of 1439 services not written in OWL-S

Implementation & Status
- Open source PHP-based web application on top of MySQL database
- Available online at http://hnsp.inf-bb.uni-jena.de/OPOSSum
- OWLS-TC 2.2 and SWS-TC 1.1 fully integrated
- 1383 descriptions for 1297 services (most of them originating from OWLS-TC and SWS-TC)

Design Objectives
1. Promote exchange and collaborative improvement of data
   - GPL-licensed data
   - Wiki-like collaboration model
2. Support reuse and comparison across formalisms
   - WordNet as neutral formalism
   - Service as primary concept, descriptions secondary
3. Improve structure, documentation, and usability
   - Extensible, open source web portal
   - Relational database

Envisioned Usages
- Search for services or descriptions, download your search results...
- Store relevance judgments...
- Use WordNet to disambiguate semantics...
- Categorize services...
- Edit services, descriptions, resources...

Abstract: Semantic web services have received a significant amount of research attention in the last years but so far too little effort has been put into the experimental evaluation of the approaches. The main blocker of thorough evaluations is the lack of large and diverse test collections for SWS. These can only be built collaboratively by the community as a whole, which requires appropriate tools. The OPOSSum Project is dedicated at providing these tools. OPOSSum is a web portal developed to make it easy to collect, improve, search for and compare semantic service descriptions across various formalisms.