



2007: OWL-S Service Matchmakers

Matthias Klusch (DFKI, Germany)
Alain Leger (France Telecom Research, France)
David Martin (SRI International, USA)
Massimo Paolucci (NTT DoCoMo Research Europe, Germany)
Abraham Bernstein (University of Zurich, Switzerland)
Terry Payne (U Southampton, UK)

ISWC-SMR2 2007

S3 Organisation for 2007



- Initiative planned @ISWC 2006 conference, supported by DFKI SAB
- Open call for entries
 - Via SMR2 workshop CFPs and Web site
 - Via S3 Web site: http://wwwdfki.de/~klusch/s3/
 - Entry: OWL-S matchmaker binary + Implementation of plug-in interface of the testing environment (SME2 toolkit)
- Evaluated candidates
 - OWLS-iMatcher (U Zurich, CH) non-logic based
 - OWLS-MX (DFKI, D) hybrid
 - OWLSM (TU Berlin, D) logic based
- Testing bases on OWL-S retrieval test collection OWLS-TC 2.2
 - 1,004 OWL-S 1.1 services (*not* randomly generated but handcrafted)
 - 29 queries, 23 ontologies referenced

Results



Run time

owls-imatcher: 655sec (11min)

owls-mx: avg 558 (9min)

owls-m0: 973sec (17min)

owls-m1: 402sec.

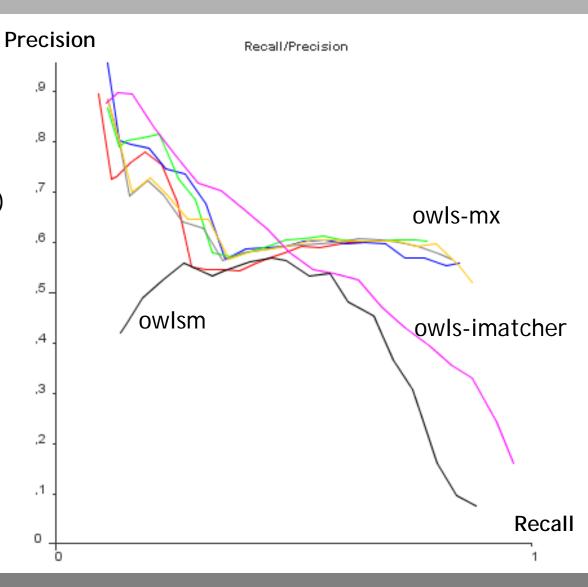
owls-m2: 454sec.

owls-m3: 468sec.

owls-m4: 494sec.

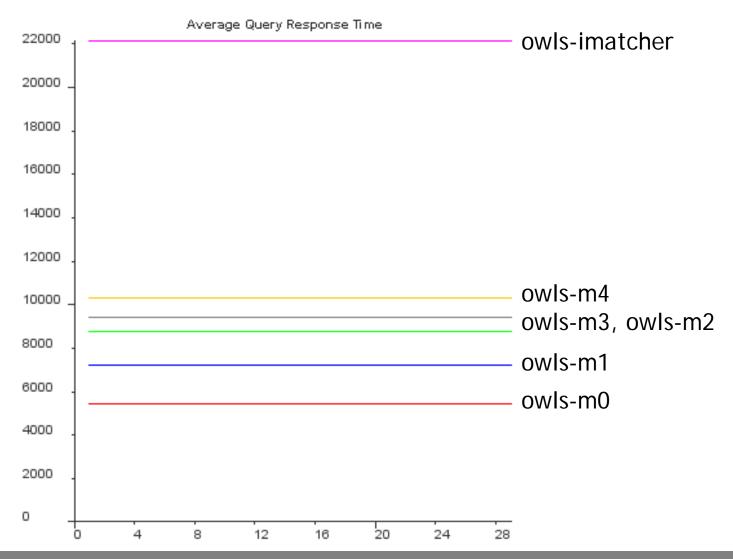
owlsm: > 20hrs, n-d crash

for OWLS-TC 2.1 (577 services)



Results (2)





ISWC-SMR2 2007

Discussion@S3



- Results did strongly depend on test collection OWLS-TC2
 - OWLS-TC2 is far from being in a "quasi-standard" form like TREC
 - Reported performance results are preliminary and indicating only
- No upload of revised/extended OWLS-TC, or OWL-S matchmakers by community @semwebcentral.org yet despite strong download numbers (OWLS-MX and OWLS-UDDI client ranked 5th, resp., 3rd).
- Recent announcement of SAWSDL as standard by W3C
 - Triggered work on refactoring OWL-S to SAWSDL (Martin & Paolucci, 07)
 - Major investments on OWL-S software not considered lost still

ISWC-SMR2 2007 6

Outlook on S3 in 2008



- Targeted evaluation of WSML and SAWSDL matchmakers
- Requires service retrieval test collections for WSML and SAWSDL
 - Initial work on SAWSDL-TC 1.0 @DFKI ongoing
 - Initial work on WSML-TC1 @HPI, DFKI ongoing
 - TCs available for JOINT EFFORT at SWS-TC Wiki (upload/download)
 www-ags.dfki.uni-sb.de/swstc-wiki/index.php/Main_Page
 - Ongoing: DBMS (created by U Jena) to be linked with SWS-TC wiki
- Open call for \$3 entries

www.dfki.de/~klusch/s3/

