

CALL FOR PAPERS

Fourth International Workshop SMR2

Service Matchmaking and Resource Retrieval in the Semantic Web

@ 9th International Semantic Web Conference (ISWC 2010)
November 8, 2010; Shanghai, China

Workshop Web page: <http://www.dfki.de/~klusch/smr2-10/>

Aims & Scope:

One central challenge of service coordination in the Semantic Web is how to best relate requests for services with the services that are available. This functionality is usually provided by matchmaking capabilities (which may themselves be deployed as services, brokers or middle agents) that select the services that are closest to a requested service on the basis of a declarative characterization of the capabilities of both service requested and services provided.

More generally, resource retrieval extends the notion of service matchmaking to the process of discovering any kind of resource (services, data, information, knowledge, even persons and organizations) for given settings, participating entities, and purposes. It is at the core of several scenarios in the Semantic Web area, spanning from Web services, Grid and cloud computing, and Peer-to-Peer computing, to applications such as e-commerce, human resource management, and social networking applications such as dating services.

The primary objective of this workshop is to bring together academic and industry researchers and industry practitioners who tackle semantic service matchmaking and discovery *from various points of view*. In particular, we intend to build bridges to the software engineering and model-driven development communities in order to share requirements, technologies, and experiences that might be helpful in advancing the state of the art in semantic service matchmaking and resource retrieval.

Going to Practice: The 4th International Semantic Service Selection (S3) Contest

The SMR2 workshop also integrates the fourth edition of the open international contest on semantic service selection (S3) which is in collaboration with the SEALS SWS tool evaluation campaign. The S3 contest provides the means and a forum for evaluating the retrieval performance of Semantic Web service matchmakers in terms of recall, precision, F1, response time etc., over given test collections based on the prominent semantic service formats such as OWL-S, WSML and the standard SA-WSDL.

Publication: The proceedings of SMR2 will be available as a CEUR volume online. In addition, it is planned to publish selected and invited papers of the SMR2 workshop in a special issue of the international Semantic Web journal (<http://www.semantic-web-journal.net/>).

Topics of interest include (but are not limited to):

- Semantic resource and service matchmaking and brokering
- Semantic retrieval of resources and services in P2P, Grid networks and Cloud Computing
- Model-driven semantic service engineering and matchmaking
- Privacy-preserving and trusted semantic service discovery
- Composition planning of semantic services and workflows
- Formal description and handling of semantic services, queries, and resources

- Prototypes and tools for semantic services engineering, discovery and composition
- Negotiation of semantic services and resources
- Interleaving of discovery, composition, and negotiation of semantic services and resources
- Practical applications of semantic services
- Evaluation of implemented semantic service retrieval tools
- Middleware solutions for semantic service search and composition

Submissions:

Contributions to the workshop can be made as technical papers, addressing different issues of service / resource matching and retrieval. The papers written in English should be not longer than **16 pages** using the LNCS Style: <http://www.springeronline.com/sgw/cda/frontpage/0,11855,5-164-2-72376-0,00.html>

All contributions should be prepared in PDF format and should be submitted through the workshop submission site at: <http://www.easychair.org/conferences/?conf=smr22010>

Important Dates:

***** EXTENDED DEADLINE ******

September 6, 2010: Paper Submission

September 20, 2010: Notification

October 2, 2010: Camera-Ready Paper

November 8, 2010: SMR2-2010, Shanghai, China

Organizing Committee

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