

Preface

Welcome to the International Workshop on Service Matchmaking and Resource Retrieval in the Semantic Web, SMR², Karlsruhe, Germany, October 27, 2008. The workshop, at its second edition, is devoted to the discussion of theoretical, technical and methodological solutions to the problem of finding the best service or the best resource when searching in a web of meanings like the Semantic Web is.

This year we accepted 8 papers covering many aspects of matchmaking and retrieval in the Semantic Web. As in the last edition, many of them focus on (semantic) web service discovery and selection.

In **Semantic Web Service Selection with SAWSDL-MX**, Matthias Klusch and Patrick Kapahne extend and adapt their hybrid -MX matchmaking framework to SAWDL semantic web service descriptions. SAWSDL is also the main character of the paper **Uncovering WSDL Specifications' Data Semantics** by George A. Vouros et al. Here the focus is on automatic annotation of WSDL specifications mapping input/output WSDL specifications to ontology classes.

Whenever a service matchmaker returns a list of service satisfying a specific goal the main question is: how satisfactory is the result with respect to the provided goal? An answer to this basic question is provided in **Evaluating Semantic Web Service Matchmaking Effectiveness Based on Graded Relevance** (Ulrich Küster and Birgitta König-Ries) where the authors propose a graded relevance scale to evaluate SWS matchmakers. In all interoperability scenarios, the ultimate goal of matchmakers is the eventual orchestration of discovered services. In **Model-Driven Semantic Service Matchmaking for Collaborative Business Processes**, Matthias Klusch et al. propose to apply the principles of model driven-design to Semantic Web service technology to assist a business orchestrator finding suitable services at design time, and composing work-flows for agent-based execution.

Usually, a negotiation phase follows the matchmaking/discovery one. In **Combining Boolean Games with the Power of Ontologies for Automated Multi-Attribute Negotiation in the Semantic Web**, Thomas Lukasiewicz and Azzurra Ragone propose a new formal framework to combine Semantic Web technologies with a game theoretic approach for multi-attribute negotiation.

Talking about Semantic Web we do not have to forget that related technologies can also be applied in scenarios different from the Web. In **Match'n'Date: Semantic Matchmaking for Mobile Dating in P2P Environments**, Michele Ruta et al. describe an application of Semantic Web technologies to a mobile environment.

Finally, in **Look Ma, No Hands: Supporting the semantic discovery of services without ontologies** (George A. Vouros et al.) and **Closing the Service Discovery Gap by Collaborative Tagging and Clustering Techniques** (Alberto Fernandez et al.) the authors show how to use and combine techniques and tools of the current web to solve problems in the Semantic Web.

Our thanks go to all authors for their valuable submissions and to the invited speaker Holger Lausen for his talk: **Enabling Discovery of Web Services on the Internet**. We are also very grateful to the members of the Program Committee and the external reviewers for their time and efforts.

Tommaso Di Noia, Ruben Lara and Ioan Toma

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