Abstract

Semantic Web Service is considered to be the crux of Dynamic Web Service Selection. It looks forward to automate the different aspects of Service Selection which includes Web Service Discovery, Service Selection, Service Composition and Service Invocation. This paper aims at better understanding the Service Selection aspect of Semantic Web Service giving cognitive parameters the center stage. It looks at the psychological and basic behavioral aspect of consumer behavior. A model for Service Selection is proposed wherein an attempt has been made to measure the consumer behavior using cognitive parameters. A detailed study of these cognitive parameters has been made from both the service provider’s context and the service consumer’s context. These parameters are then used to perform the service selection effectively and efficiently. The cognitive parameters help in efficient modeling of user’s requirements and thus leading to better service selection.

References

- E. M. Maximilien and M. P. Singh. “Multi-agent system for Dynamic Web Services Selection”. In: Proc of 1st Workshop on Service-Oriented Computing and
Agent-Based Engineering (SOCABE at AAMAS), 2005.
- M. D. Lee, M. Steyvers, M. D. Young, B. J. Miller, “A Model Based Approach To
  2012.
- L. Gasser, Mas Infrastructure: Definitions, Needs And Prospects, In: Infrastructure For
  Agents, Multi-Agent Systems And Scalable Multi-Agent Systems, Vol. 1887 Of Lecture Notes In
- D. Fensel, F. M. Facca, E. Simperl, I. Toma. “Semantic Web” In

Index Terms

Computer Science
Information Science

Keywords
Semantic Web  Cognition  Cognitive Ability  Cognitive Parameters