Abstract

In this paper our basic aim is to present the improved mechanism for the grid service discovery using rough sets with parallel execution of servers. ROSSE is a search engine for grid service discovery. Building on Rough sets theory, ROSSE is novel in its capability to deal with uncertainty of service properties when matching services. This is achieved by dynamically identifying and reducing dependent properties that may be uncertain properties when matching a service query. In this way, ROSSE increases the accuracy in service discovery. Finally, ROSSE is evaluated from the aspects of accuracy and efficiency in discovery of computing services. Improvement in ROSSE model is enhanced by providing the parallel execution of resource requests in order to enhance the Service Discovery.

References

- F. Curbera, M. Duftler, R. Khalaf, W. Nagy, N. Mukhi, and S. Weerawarana, "Unraveling the Web Services: An Introduction to SOAP, WSDL, and UDDI" IEEE
Internet Computing, vol. 6, no. 2, pp. 86-93, 2002.
- Jon Komorowski, Lech Polkowski, and Andrezej Skowron, "Rough sets: A Tutorial"
- URL "http://www.ogf.org"

**Index Terms**

Computer Science  
Emerging Trends in Technology

**Keywords**

Rough Set  
Resource Manager Server  
Grid Service Discovery