Position Statement
Semantic Web and Intelligent Agents Research and Practice
Masoud Mohammadian
University of Canberra,
School of Information Sciences and Engineering, Canberra, ACT, Australia
E-mail: Masoud.mohammadian@canberra.edu.au

Abstract

The usefulness of the next generation of web and its applications depends on the development of Semantic Web and Web Service [1, 2, 3, 4, 5]. Semantic web provides the most feasible opportunities for content and service delivery and accessibility of web and its applications. New a well designed web applications can be developed and supported by web semantics techniques. There are however many challenges and obstacles that needs be addressed so that these web semantics applications are successful as well as easy to develop and use.

1. Introduction

The challenges in the area of context and knowledge management as well as web services involves cooperation of semantic web for multi-agents systems applied to web services and web service delivery. I will consider in this talk among other web semantic concepts the challenges involved in future and next generation web application and web services. These challenges include: The integration of intelligent agents [6] and multi-agent systems into the semantic web for large web applications and the integration of ontologies [4] for intelligent agents and multi-agent systems and the use of web semantic in such applications. This talk will also present among other things research case studies performed by the speaker and point out the challenges and suggest ways to overcome these challenges.

2. Biographical Statement

Dr Masoud Mohammadian research interests lie in the application of computational intelligence techniques for learning and adaptation of intelligent agents and multi-agent systems for web-based information filtering, web semantic and web ontologies. He has chaired thirteen international conferences on computational intelligence and intelligent agents. He has published over ninety research papers in conferences, journal and books as well as editing fifteen books in the area of computational intelligence and intelligent agents. Masoud has over sixteen years of academic experience and he has served as program committee member and/or co-chair of a large number of national and international conferences. He was the chair of IEEE ACT Section and he was the recipient of Service and Contribution Award from IEEE for his services in Australia and the recipient of several awards from Australia, USA and Europe. He is a sought after keynote speaker in the area of intelligent agents and computational intelligence.

3. REFERENCES