Department of Computer Science and Engineering

Presents

Sheila McIlraith, University of Toronto

Semantic Web Services

Two trends are emerging in the World Wide Web (WWW). The first is the proliferation of Web Services -- self-contained, Web-accessible software applications and associated distributed systems architectures. The second is the emergence of the "Semantic Web", the vision for a next-generation WWW that is computer interpretable. Today's Web was designed primarily for human use. The vision of Semantic Web Services is to enable reliable, large-scale automation of Web service discovery, invocation, interoperation, composition, monitoring and verification. This will be achieved by describing the properties and capabilities of Web services in an unambiguous, machine-understandable form. In this talk we briefly overview efforts to develop languages and ontologies for describing Web services, focusing on OWL-S, an OWL (Ontology Web Language) ontology for Web services. We follow this with a brief discussion of computational techniques for automating the composition of Web service.

Bio: Sheila McIlraith is an Associate Professor in the Department of Computer Science at the University of Toronto. Prior to joining the faculty at U of T in 2004, Dr. McIlraith was a research scientist at Stanford University for six years, and a postdoctoral fellow at Xerox PARC for one. Her current research spans three areas: knowledge representation and reasoning for Web services on the Semantic Web; automated planning and diagnosis; and efficient automated reasoning. Dr. McIlraith has authored over 50 refereed papers. She is an associate editor of the journal Artificial Intelligence and past chair of a number of scholarly meetings including the Third International Semantic Web Conference. She was on the advisory board of the joint EU-North American Semantic Web Services Intiative (SWSI), a technical member of its language committee (SWSL), and a founding member of the DAML Coalition for Semantic Web Services. These initiatives resulted in both the OWL-S and SWSL ontology recommendations to the World Wide Web Consortium (W3C).

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3:30 - 4:30 PM

120 Clemens - University at Buffalo - North Campus

This talk is free and open to the public. Refreshments for attendees after the talk in 224 Bell Hall

For more information, please email **cse-department@buffalo.edu** or contact (716) 645-3180