

CICLO DI SEMINARI SUL WEB SEMANTICO

OWL: a Description Logic Based Ontology Language

RELATORE:

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Abstract

Description Logics (DLs) are a family of class based knowledge representation formalisms characterised by the use of various constructors to build complex classes from simpler ones, and by an emphasis on the provision of sound, complete and (empirically) tractable reasoning services. Although they have a range of applications (e.g., configuration and information integration), they are perhaps best known as the basis for widely used ontology languages such as OWL. The decision to base OWL on DLs was motivated by a requirement that key inference problems be decidable, and that it should be possible to provide reasoning services to support ontology design and deployment. This talk will introduce description logics, describe their relationship to OWL, and discuss their role in providing reasoning services, before concluding with a brief review of current research.

Giovedì 24 Novembre, ore 18.00

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Ian Horrocks is a Professor of Computer Science at the University of Manchester. He is internationally recognised for his work on ontology languages and the development of Description Logic (DL) reasoners to provide reasoning support for such languages. His FaCT system revolutionised the design of Description Logic systems, redefining the notion of tractability for DLs and establishing a new standard for DL implementations. He is a member of the Joint EU/US Committee on Agent Markup Languages, and was centrally involved in the development of the OIL, DAML+OIL and OWL ontology languages. In 2005 he was awarded an EPSRC Senior Research Fellowship, and was the winner of the BCS Roger Needham award for his his pioneering work in the Semantic Web. He has published widely in leading journals and conferences winning the best paper prize at the 1998 International Conference on the Principles of Knowledge Representation and Reasoning, and has also been a member of the programme/editorial committees of numerous international conferences, workshops and journals.

Info

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