

The Ubiquitous Semantic Web: The Story So Far

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Abstract of Invited Talk. Semantic Web technologies make it possible to represent, integrate, query and reason about structured online data. Recent years have witnessed tremendous growth of mobile computing, represented by the widespread adoption of smart phones and tablets. The versatility of such smart devices and the capabilities of semantic technologies form a great foundation for a ubiquitous Semantic Web that will contribute to further realising the true potential of both disciplines. In this talk, I will provide a brief overview of state-of-the-art research in this emerging area and try to conclude with a summary of challenges and important research problems.

Biography of the Speaker. Jeff Z. Pan received his Ph.D. in computer science from The University of Manchester in 2004, on the topic of Description Logics: Reasoning Support for the Semantic Web. He joined the faculty in the Department of Computing Science at University of Aberdeen in 2005. He is now the Deputy Director of Research of the department. His research focuses primarily on knowledge representation and reasoning, in particular scalable ontology reasoning, querying and reuse, and their applications (such as Semantic Web, Advertising, Healthcare, Software Engineering and Multimedia). He is a key contributor to the W3C OWL2 standard. He leads the work of the TrOWL Tractable OWL2 reasoning infrastructure. He is widely recognised for his work on scalable and efficient ontology reasoning; he gave tutorials on this topic in e.g. AAAI2010, ESWC2010, ESWC2011, SemTech2011 and the Reasoning Web Summer School (2010 and 2011).