

## **A REFLECTIVE APPROACH TO DYNAMIC META-DATA GENERATION FOR THE SEMANTIC WEB**

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### POSTER ABSTRACT

As the World Wide Web grows and evolves, a new breed of services is being developed that requires the assistance of intelligent agent software. The existing structure of the Web content, however, is not amenable to automatic processing. The Semantic Web is meant to address this issue by creating a universal information space where software will be able to process and understand the available information. As part of the realisation of the Semantic Web, Web content will need to be annotated with machine understandable semantic data. For static content, processing can be done on the final Web page to create and embed this annotation. However, this approach is not suitable for dynamic Web applications where the generated content is immediately consumed. To explore these issues, a taxonomy of existing annotation approaches is first defined. A new approach is presented that investigates the applicability of reflection methodologies, whereby meta-data is extracted from the structure of the dynamic Web application rather than the resulting content. Finally, an implementation is developed that addresses the automatic provision of semantic data for dynamically generated content.