



Home > Journal > Business & Economics | Computer Science & Communications > IIM

[Indexing](#) [View Papers](#) [Aims & Scope](#) [Editorial Board](#) [Guideline](#) [Article Processing Charges](#)

IIM > Vol.4 No.4, July 2012

OPEN ACCESS

The Jena-Based Ontology Model Inference and Retrieval Application

PDF (Size: 137KB) PP. 157-160 DOI: 10.4236/iim.2012.44023

Author(s)

Luo Zhong, Mingzhu Zheng, Jingling Yuan, Jinxin Jin

ABSTRACT

Ontology as an important representation model of semantic web has valuable application. A new ontology model on the basis of Computer Graphics (CG) knowledge is proposed, called CG ontology model. The protégé is used to build this ontology model conveniently. The Jena API is applied to store CG owl documents in MySQL, set inference rule and achieve search queries on the ontology database. Finally, the Jena-based ontology model retrieval system is developed.

KEYWORDS

Ontology Model; Jena; Semantic Web; Inference Rule; Retrieval Application

Cite this paper

L. Zhong, M. Zheng, J. Yuan and J. Jin, "The Jena-Based Ontology Model Inference and Retrieval Application," *Intelligent Information Management*, Vol. 4 No. 4, 2012, pp. 157-160. doi: 10.4236/iim.2012.44023.

References

- [1] N. Balani, "The Future of the Web is Semantic," 2005. <http://www.ibm.com/developerworks/cn/java/wa-semweb>
- [2] "Welcome to Protégé." <http://protege.stanford.edu/>
- [3] "Jena—A Semantic Web Framework for Java." <http://jena.sourceforge.net/>
- [4] J. J. Carroll and D. Reynolds, "Jena: Implementing the Semantic Web Recommendations," Proceedings of the 13th International World Wide Web conference on Alternate Track Papers & Posters, New York, 2004, pp. 7483.
- [5] W. Zhang and L. G. Duan, "Reasoning and Realization Based on Ontology Model and Jena," IEEE Fifth International Conference on Theories and Applications (BIC-TA), Taiyuan, 23-26 September 2010, pp. 1057-1060.
- [6] S.-Y. Heo, "A Study on the Improvement of Query Processing Performance of OWL Data Based on Jena2," International Conference on Convergence and Hybrid Information Technology, Cheonan, 28-30 August 2008, pp. 678-681.
- [7] M. Wang and J. P. Ding, "The Research on the JenaBased Web Page Ontology Extracting and Processing," First International Conference on Semantics, Knowledge and Grid, Shanghai, 27-29 November 2005, p. 105.
- [8] Y. Zhang, "OntoSearch: An Ontology Search Engine," SGAI Conference, 2004, pp. 58-69.
- [9] L. Ding and T. W. Finin, "Search on the Semantic Web," IEEE Computer, Vol. 38, No. 10, 2005, pp. 62-69. doi:10.1109/MC.2005.350
- [10] L. Ding, T. Finin, A. Joshi, R. Pan and Y. Peng, "Swoogle: A Search and Metadata Engine for the Semantic Web," Proceedings of the Thirteenth ACM Conference on Information and Knowledge Management, Washington DC, 9 November 2004, pp. 652-659.

- [Open Special Issues](#)
- [Published Special Issues](#)
- [Special Issues Guideline](#)

[IIM Subscription](#)

[Most popular papers in IIM](#)

[About IIM News](#)

[Frequently Asked Questions](#)

[Recommend to Peers](#)

[Recommend to Library](#)

[Contact Us](#)

Downloads: 144,104

Visits: 351,097

[Sponsors >>](#)

