



一种基于FCA和Folksonomy的本体构建方法

张云中

吉林大学管理学院 长春 130022

Zhang Yunzhong

School of Management, Jilin University, Changchun 130022, China

- 摘要
- 参考文献
- 相关文章

Download: PDF (1KB) [HTML \(1KB\)](#) Export: BibTeX or EndNote (RIS) Supporting Info

摘要 针对当前使用Folksonomy进行本体构建的问题,归纳总结当前方法存在的局限性,指出FCA集数据分析与概念建模于一身的特性在解决这些局限性上的优势,通过构建基于FCA和Folksonomy的本体构建方法模型,最终得出一种基于FCA和Folksonomy的本体构建方法,为网络社区环境下通过Folksonomy实现低价、高效、及时、灵活和人本的本体构建过程提供新的思路。

关键词: [形式概念分析](#) [分众分类法](#) [本体构建方法](#)

Abstract: Due to the current Ontology construction problems using Folksonomy, the limitations of the current approaches are summarized, and the advantages of FCA's characteristics on solving these defects are pointed out, because it has the functions of data analysis and conceptual modeling rolled into one. By the way of building the Ontology construction model, a new Ontology construction modeling method based on FCA and Folksonomy is proposed, and it provides some new ideas and perspectives for achieving a low-cost, efficient, timely, flexible and people-oriented Ontology building process in Web community environment.

Keywords: [FCA](#), [Folksonomy](#), [Ontology construction method](#)

收稿日期: 2011-07-27;

引用本文:

张云中 .一种基于FCA和Folksonomy的本体构建方法[J] 现代图书情报技术, 2011,V27(12): 15-23

Zhang Yunzhong .A New Ontology Construction Method Based on FCA and Folksonomy[J] , 2011,V27(12): 15-23

链接本文:

<http://www.infotech.ac.cn/CN/> 或 <http://www.infotech.ac.cn/CN/Y2011/V27/I12/15>

Service

- ▶ 把本文推荐给朋友
- ▶ 加入我的书架
- ▶ 加入引用管理器
- ▶ Email Alert
- ▶ RSS

作者相关文章

- ▶ 张云中

- [1] Spyns P, De Moor A, Vandenbussche J, et al. From Folksonomies to Ontologies: How the Twain Meet[C]. In: *Proceedings of OTM Conferences*. New York: ACM Press, 2006: 738-755.
- [2] Gendarmi D, Lanubile F. Community-Driven Ontology Evolution Based on Folksonomies[C]. In: *Proceedings of OTM Workshops*. New York: ACM Press, 2006: 181-188.
- [3] Van Damme C, Hepp M, Siorpaes K. FolkOntology: An Integrated Approach for Turning Folksonomies into Ontologies[C]. In: *Proceedings of Bridging the Gap Between Semantic Web and Web 2.0 (SemNet 2007)*. Berlin: Springer, 2007: 57-70.
- [4] Hepp M. Possible Ontologies: How Reality Constraints Building Relevant Ontologies [J/OL]. *IEEE Internet Computing*, 2007, 11(1): 90-96. [2011-04-18]. <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=4061129&userType=inst>.
- [5] Weller K. Folksonomies and Ontologies: Two New Players in Indexing and Knowledge Representation[C]. In: *Proceedings of 2007 Conference on Applying Web 2.0. Innovation, Impact and Implementation: Online Information*. 2007: 108-115.
- [6] Ganter B, Wille R. 形式概念分析[M]. 马垣, 张学东等译. 北京: 科学出版社, 2007: 15-46.
- [7] 张云中, 杨萌, 徐宝祥. 基于FCA的Folksonomy用户偏好挖掘研究[J]. *现代图书情报技术*, 2011 (6): 72-78.
- [8] Mika P. Ontologies are Us: A Unified Model of Social Networks and Semantics[C]. In: *Proceedings of International Semantic Web Conference*. New York: ACM Press, 2005: 522-536.
- [9] Echarte F, Astrain J J, Córdoba A, et al. Ontology of Folksonomy: A New Modeling Method[C]. In: *Proceedings of Semantic*

- [10] 张有志,王军.基于Folksonomy的本体构建探索[J].图书情报工作,2008,52(12):122-125.
- [11] 唐晓波,全莉莉.基于分众分类的本体构建分析[J].情报理论与实践,2008,31(6):931-936.
- [12] Kim H L, Hwang S H, Kim H G. FCA-based Approach for Mining Contextualized Folksonomy[C]. In: *Proceedings of SAC'2007*. New York: ACM Press,2007:1340-1345.
- [13] Kang Y K, Hwang S H, Yang K M. FCA-based Conceptual Knowledge Discovery in Folksonomy[J]. *World Academy of Science, Engineering and Technology*,2009,53:842-846.
- [14] Kim H G, Hwang S H, Kang Y K, et al. An Agent Environment for Contextualizing Folksonomies in a Triadic Context[C]. In: *Proceedings of the 1st KES International Symposium on Agent and Multi-Agent Systems: Technologies and Applications*.2007,4496:728-737.
- [15] Jäschke R, Hotho A, Schmitz C, et al. Discovering Shared Conceptualizations in Folksonomies[J]. *Web Semantics: Science, Services and Agents on the World Wide Web*,2008,6(1): 38-53. 
- [16] 吴贤.挖掘社会化标注服务语义万维网[D].上海:上海交通大学, 2007.
- [17] Shirky C. Ontology is Overrated: Categories, Links, and Tags [EB/OL]. [2010-08-28].http://www.shirky.com/writings/ontology_overrated.html.
- [18] Mathes A. Folksonomies: Cooperative Classification and Communication Through Shared Metadata [EB/OL]. [2010-08-28]. <http://www.adammathes.com/academic/computer-mediated-communication/folksonomies.html>.
- [19] Halpin H, Robu V, Shepherd H. The Dynamics and Semantics of Collaborative Tagging [C]. In: *Proceedings of the 1st Semantic Authoring and Annotation Workshop SAAW'06*.2006: 1-21.
- [20] Golder S, Huberman B. Usage Patterns of Collaborative Tagging Systems.[J].*Journal of Information Science*,2006,32(2):198-208.
- [1] 张云中, 杨萌, 徐宝祥.基于FCA的Folksonomy用户偏好挖掘研究[J]. 现代图书情报技术, 2011,27(6): 72-78
- [2] 王欣 徐宝祥.基于形式概念分析的知识集成建模研究[J]. 现代图书情报技术, 2010,26(4): 1-5
- [3] 张云中.Ontology 和 FCA在知识建模中的融合机理研究[J]. 现代图书情报技术, 2010,26(3): 40-46
- [4] 张云中,徐宝祥.基于形式概念分析的信息系统建模理论研究[J]. 现代图书情报技术, 2010,26(2): 17-23
- [5] 毕强,滕广青.国外形式概念分析与概念格理论应用研究的前沿进展及热点分析[J]. 现代图书情报技术, 2010,26(11): 17-23
- [6] 张晓李,王西锋 .FCA中的概念语义相似度计算[J]. 现代图书情报技术, 2007,2(3): 51-54
- [7] 于俊洋,沈夏炯 .用FCA对搜索结果进行分类*[J]. 现代图书情报技术, 2006,1(12): 44-48