A study of Ontology and Fuzzy Linguistic on RSS search

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ABSTRACT

Web 2.0 prevalent in the current era of the Internet, RSS has been adopted as subscription news site with the release of an important media, who can build websites through RSS to publish information to the user, the user can also pick he'd like to receive the RSS categories, such knowledge-sharing and user interaction design is consistent with the spirit of Web2.0. As each day on the Internet by the dissemination of information over once more when users subscribe to the RSS, as long as the RSS file updated each, will be the influx of large numbers of information. With the longer time off, the more astonishing amount of information, how many users of information, the filter system and find their desired information, or would like to extend to read the information in the action, To understand the events before and after, or even from the search in the process of discovery of new knowledge. This study to the Web search interface to the existing network news categories to create a body of knowledge, based on users enter a search string RSS file with the significance of the title of a column vague language intended to do the analysis and correlation, and then under Semantic ambiguity to the establishment of the results of the analysis done in the body of knowledge and mapping, finally emerged with the most similar meaning users of information emerged. The research results include: the first part is to establish a body of knowledge-based news, the second part of the theory and the use of vague language intended to construct network search platform, is the third part of the search platform and complete body of knowledge interface.

Keywords : Ontology ; Fuzzy Linguistic ; Really Simple Syndication

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REFERENCES

一、中文部份 李建興(2003)，基於Ontology架構之CMMI Level 2度量分析Web Service研究與建構，私立長榮大學經營管理研究所未出版之碩士論文。 吳柏林(1994)，模糊統計分析:問卷調查研究之新方向，國立政治大學研究通訊，2，65-80。 吳柏林，曾能芳(1998)，模糊迴歸參數估計及在景氣對策信號之分析應用，中國統計學報，36(4)，399-420。 張益華(2005)，基於知識本體的語意檢索系統之研究-以學校公文及法規為例，大葉大學資訊管理系未出版之碩士論文。 戚玉樑(2005)，以本體知識為基礎的知識庫建制程式及其應用，中原大學資訊管理所未出版之碩士論文。 鐘正男(2004)，以知識本體為基礎的語意查詢系統之研究-以圖書館為例，大葉大學資訊管理系未出版之碩士論文。 林建宏(2006)，正規化概念分析建構電腦病毒特徵之知識本體，雲林科技大學資訊管理學系未出版之碩士論文。 戚玉樑，林建良(2004)，使用OWL-QL開發領域本體知識庫之知識提取，2004 電子商務與數位生活研討會。 胡訓誠(2003)，應用本體論設計ISO文件管理資，國立高雄第一科技大學資訊管理學系未出版之碩士論文。 二、英文部份 Akshay, J., Tim, F., & Sergei, N. (2006). Text understanding agents and the semantic web. Proceedings of the 39th Hawaii interna-tional conference on system sciences, 4-6. Alexander, M. (2001). Ontology learning for the semantic web. Klu-wer Academic Publishers, 16(2), 72-79. Asuncion, G., & Oscar, C. (2002). Ontology languages for the seman-tic web. IEEE intelligent systems, 17(5), 54-60. Baldwin, J. F., & Zhou, S. Q. (1984). A fuzzy relational inference lan-guage. Fuzzy sets and systems, 14(22), 155- 174. Baumgart, A. S., Knapp, H., Suetterlin, P., & Schader, M. (2007). A profile-based peer-to-peer RSS information distribution. IEEE intelligent systems, 5-7. Berners, L. T., & Fischetti, M. (1998). Weaving the web: The original design and ultimate destiny of the World Wide Web by its inven-tor (1st ed.). San Francisco: Harper Business. Brickley, D., & Guha, R. V. (2004). RDF vocabulary description lan-guage 1.0: RDF schema [Online]. Available: http://www.w3c. org/TR/rdf-schema/ [2004, February 10]. Buckles, B. P., & Petry, F. E. (1982). A fuzzy representation of datafor relational databases. Fuzzy sets and systems, 5, 213- 226. Celik, D., & Elci, A. (2005). Searching semantic web services: An in-telligent agent approach using semantic enhancement of client input term(s) and matchmaking step. Computer Software and Applications Conference, 2, 916-922. Chen, G. Q., Vandenbulcke, J., & Kerre, E. E. (1992). A general treat-ment of data redundancy in a fuzzy relational data model. Journal of the American society of information science, 43, 304- 311. Dan, C., Frank, V. H., Ian, H., Deborah, M., Peter, F., Patel-Schneider, & Lynn, A. S. (2001). DAML+OIL (March 2001) reference de-scription [Online]. Available: http://www.w3.org/TR/daml+oil-reference [2001, December 18]. Dan, C., Frank, V. H., Ian, H., Deborah, M., Peter, F., Patel-Schneider, & Lynn, A. S. (2001). Annotated DAML+OIL ontology markup [Online]. Available: http://www.w3.org/TR/daml+oil- walkthru/ [2001, December 18]. Dubois, D., & Prade, H. (1983). Ranking fuzzy number in the setting of possibility theory. Information Science, 30(2), 183-224. Feff, H. (2004). OWL web ontology language use cases and require-ments [Online]. Available: http://www.w3c.org/TR/webont-rrg [2004, February 10]. Frank, M., & Eric, M. (2004). RDF primer [Online]. Available: http://www.w3.org/TR/REC-rdf-syntax/ [2004, February 10]. Graham, K., & Jeremy, C. (2004). Resource description framework (RDF): Concepts and abstract syntax [Online]. Available: http://www.w3.org/TR/rdf-concepts/ [2004, February 10]. Gruninger, M., & Fox, M. S. (1995). Methodology for the design and evaluation of ontologies. Unpublished master ’ s thesis, Depart-ment of Industrial Engineering University of Toronto. Canada, M S A. Guttman, R. H., Moukas, A. G., & Maes, P. (1999). Agents that buy and sell. Communications of the ACM., 42(3), 81-91. Guu, S. M., Pang, C. T., & Liu, J. Y. C. (2002). On the proximately semantic measure of fuzzy data in extended possibility-based fuzzy relational databases. Working paper of department of in-formation management. Yuan- Ze University. Han, J., & Kamber, M. (2001). Data ming: Concepts and techniques. New York: Morgan Kanfmann. Hesketh, B., Pryor, R., & Gleitzman, M., & Hesketh, T. (1988). Prac-tical applications and psychometric evaluation of a computer-ized fuzzy graphic rating scale. Fuzzy sets in psychology, New York: North-Holland, 425-454. Keeble, R. J., & Macredie, R. D. (2000). Assistant agents for the world wide web intelligent interface design challenges. Inter-acting with Computers, 12, 357-381. Kilir, G. J., & Folger, T. A. (1988). Fuzzy sets, uncertainly and infor-mation. NJ: Prentice-Hall. Klir, G. J., & Yuan, B. (1995). Fuzzy sets and fuzzy logic theory and application. NJ: Prentice-Hall. Lee, C. S., Chen, C. P., Chen, H. J., & Kuo, Y. H. (2002). A fuzzy clas-sification agent for personal e-News service. International jour-nal of fuzzy systems, 4(4), 849-856. Lee, C. S., Pan, C. Y., & Chang, M. J. (2002). A fuzzy decision agent for meeting scheduling supported system. International confer-ence on fuzzy systems and knowledge discovery, Singapore, 2002. Lin, C. T., & Gerorge, L. C. S. (1991). Neural-network-based fuzzy logic control and decision system. IEEE transactions on com-puters, 40(12), 1320-1336. Manton, K. G., Woodbury, M. A., & Tolley, H. D. (1994). Statistical applications using fuzzy sets. New York: John wiley and sons, Inc. Patrick, H. (2004), RDF semantics [Online]. Available: http://www.w3 c.org/TR/rdf-mt/

[2004, February 10]. Prote'ge'3.3.1(2007), [Online]. Available: http://protege.stanford.edu/ [2007, September 20]. Roger, H., L., Cecil, E., H., & Veda, C., S. (2001). A smart web query method for semantic retrieval of web data. Data & knowledge engineering, 38(1), 63-84. RSS(2007), [Online]. Available: http://www.rssboard.org/ [2007, Sep-tember 20]. Smith, M. K., Welty, C., & MccGuinness, D. L. (2004). OWL web on-tology language guide [Online]. Available: http://www.w3c. org/TR/owl-guide/ [2004, February 10]. Stefan, D., Prasenjit, M., & Sergey, M. (2000). Framework for the se-mantic web. IEEE internet computing, 4(6), 68-73. Uschold, M., King, M., Moralee, S., & Zorgios, Y. (1998). The enter-prise ontology. The knowledge engineering review, 13(1), 31-89. Zadeh, L. A. (1972). A fuzzy set theoretical interpretation of hedges. Journal of Cybernetics. 2(2), 4-34. Zadeh, L. A. (1995). Discussion: Probability theory and fuzzy logic are complementary rather thancompetitive. Technometrics, 37(3), 271-276. Zhonogzhi, S., He, H., Jiewen, L., Fen, L., & Haijun, Z. (2006). Agent-based grid computing. In applied mathematical modeling. 30(7), 629-640. Zimmermann, H. J. (1991). Fuzzy set theory and its application. Lon-don: Kluwer academic publishers.