Knowledge Oriented Personalized Search Engine: A Step towards Wisdom Web

Abstract

WWW has undergone three generations from information web to social web to semantic web. It has started its journey towards the fourth generation which expects wisdom from the web and so termed as the wisdom web. In present era, where computers and internet has become inseparable parts of our life, user wants the Web to sense their requirements and interests and serve the contents accordingly. Search engines play major role in information extraction and delivery and present models of search engines are still struggling for providing personalized information to the users. This work is an extension of authors earlier published article on next generation of WWW where the idea for change in search engine model was coined. In this work author presents knowledge oriented personalized search engine framework which can provide personalized contents to its users. This framework provides a direction for the next generation of WWW and contributes towards wisdom web.

References

- Abraham A. and Ramos V., 'Web Usage Mining using Artificial Ant Colony Clustering and Genetic Programming'. Published in Proceedings of IEEE Congress on
Evolutionary Computation, Australia, 1384-1391.
- Chauhan N., Sharma A. K., &apos;Design of an Agent Based Context Driven Focused Crawler&apos;. Published in BVICAM&apos;s International Journal of Information Technology, 2008, pp. 61-68.
- Fu Y., Shih M. Y., &apos;A Framework for Personal Web Usage Mining&apos;.
- History of WWW, Source: http://www.w3.org/People/Berners-Lee/ShortHistory.html
- Joshi A. and Krishnapuram R., &apos;Robust Fuzzy Clustering Methods to Support Web Mining&apos;.
- Kosala R. & Blockeel H., &apos;Web Mining Research: A Survey&apos;.
- Lee T Berners, Hendler J and Lassila C, &apos;The Semantic Web&apos;.
- Li Q. Cheng, Lin S. and Dong Z. H., &apos;Research of Web Information Mining by using Crawler Techniques&apos;.
- Mobasher B., Cooley R. and Srivastava J., &apos;Automatic Personalization Based on Web Usage Mining&apos;.
- Published in Communications of the ACM, Vol. 43, No. 8, August 2000, pp. 142-151.
- Pant, G., Srinivasan, P., and Menczer, F., &apos;Crawling the Web&apos;.
- Pierrakos D., Paliouras G., Papatheodorou C. and Spyropoulos D. C., &apos;Web Usage Mining as a Tool for Personalization: A Survey&apos;.
- S. Kumar and N. Chauhan, &apos;A Context Model for Focused Web Search&apos;.
- Shadbolt N, Hall W and Lee T Berners, &apos;The Semantic Web Revisited&apos;.
- Shah A. and Jain S., &apos;An Agent Based Personalized Intelligent e-learning&apos;.
- Sharma K., Shrivastava G. & Kumar V., &apos;Web Mining: Today and Tomorrow&apos;.
- Singh A., &apos;Agent Based Framework for Semantic Web Content Mining&apos;.
- Zhan L. and Zhijing L., "Web Mining Based on Multi-Agents." Published in Proceedings of the fifth International Conference on Computational Intelligence and Multimedia Applications (ICCIIMA'03), 2003.

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**Keywords**

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