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Medicine Recommendation System

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Abstract: Nowadays people are progressively started caring about the health and medical diagnosis problems. However, according to the administration's report, more than 1 crore people every year die due to medication error done by novices (New doctors). More than 42% medication errors are caused by doctors because they provide prescriptions according to their experience which are quite limited. And sometimes they have left many parts of the book they have read Technologies as data mining and recommender technologies provide possibilities to explore potential knowledge from diagnosis history and help the doctors to prescribe medication correctly to decrease the medication error. In this recommendation we will design and implement a universal medicine recommender system framework that applies data mining technologies to the recommendation system. The medicine recommender system consists of database system module, recommendation model module, model evaluation, and data visualization module. We investigated different medicine recommendation algorithms which are generally used in recommendation system SVM (Support Vector Machine), BP neural network algorithm and ID3 decision tree algorithm based on the diagnosis data. Each algorithm are checked to get better performance. Finally, in the given open data set, SVM recommendation model is selected for the medicine recommendation module to obtain a good trade off among model accuracy and model efficiency, Experimental results shows that our system will be able to give proper medication recommendation.

Keywords: Medical Diagnostic System, Hospital System, Trace Medical History, Patients Record, Patients Debases Book.

REFERENCES

- [1]. S. M. Metev and V. P. Veiko, Laser Assisted Microtechnology, 2nd ed., R. M. Osgood, Jr., Ed. Berlin, Germany: Springer-Verlag, 1998.
- [2]. J. Breckling, Ed., The Analysis of Directional Time Series: Applications to Wind Speed and Direction, ser. Lecture Notes in Statistics. Berlin, Germany: Springer, 1989, vol. 61.
- [3]. S. Zhang, C. Zhu, J. K. O. Sin, and P. K. T. Mok, "A novel ultrathin elevated channel low-temperature poly-Si TFT," IEEE Electron Device Lett., vol. 20, pp. 569–571, Nov. 1999.
- [4]. M. Wegmuller, J. P. von der Weid, P. Oberson, and N. Gisin, "High resolution fiber distributed measurements with coherent OFDR," in Proc. ECOC'00, 2000, paper 11.3.4, p. 109.
- [5]. R. E. Sorace, V. S. Reinhardt, and S. A. Vaughn, "High-speed digital-to-RF converter," U.S. Patent 5 668 842, Sept. 16, 1997.
- [6]. (2002) The IEEE website. [Online]. Available: http://www.ieee.org/
- [7]. M. Shell. (2002) IEEEtran homepage on CTAN. [Online]. Available: http://www.ctan.org/texarchive/macros/latex/ contrib. /supported/IEEEtran/
- [8]. FLEXChip Signal Processor (MC68175/D), Motorola, 1996.
- [9]. "PDCA12-70 data sheet," Opto Speed SA, Mezzovico, Switzerland
- [10]. A. Karnik, "Performance of TCP congestion control with rate feedback: TCP/ABR and rate adaptive TCP/IP," M. Eng. thesis, Indian Institute of Science, Bangalore, India, Jan. 1999.
- [11]. J. Padhye, V. Firoiu, and D. Towsley, "A stochastic model of TCP Reno congestion avoidance and control," Univ. of Massachusetts, Amherst, MA, CMPSCI Tech. Rep. 99-02, 1999.
- [12]. Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specification, IEEE Std. 802.11, 1997.