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PONDICHERRY – VILLUPURAM – CUDDALORE - CHENNAI

GROREC: A GROUP-CENTRIC INTELLIGENT RECOMMENDER SYSTEM INTEGRATING SOCIAL, MOBILE AND BIG DATA TECHNOLOGIES

ABSTRACT:

In recent years, an extensive integration of cyber, physical and social spaces has been occurring. Cyber-Physical-Social Systems (CPSSs) have become the basic paradigm of evolution in the information industry, through which traditional computer science will evolve into cyber-physical-social computational science. Intelligent recommender systems, which are an important fundamental research topic in the CPSS field and one of the key techniques for the implementation of personalized and intelligent computing, have great significance in CPSS development. This paper proposes a group-centric recommender system in the CPSS domain, which consists of activity-oriented group discovery, the revision of rating data for improved accuracy, and group preference modeling that supports sufficient context mining from multiple sources. Through experiments, it is verified that the proposed recommender system is efficient, objective and accurate, thereby providing a strong foundation for personalized computing in the CPSS paradigm.

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EXISTING SYSTEM:

In particular, through advanced mobile and sensing technologies, social data can easily be collected as records of social events, which can be analyzed to yield a better understanding of users' daily activities, social circles, living habits, etc. Hence, various studies have been performed with a focus on developing community-centric applications based on data analysis that integrates social, mobile and big data technologies, such as Cyber-Physical-Social Systems (CPSSs) [2], [3]. Intelligent recommender systems are a key technology and a typical class of applications for providing personalized and intelligent services in the CPSS paradigm [4]. Unfortunately, because of concerns related to Volume, Variety, Velocity and Veracity (the 4 Vs) [5], the adequate and efficient analysis of the big data collected in CPSSs to provide intelligent recommendations faces the following challenges

DISADVANTAGES:

Assisted by the Internet of Things (IoT), mobile networks, SNSs and other advanced technologies, increasingly extensive data are becoming available for recommender systems.

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PROPOSED SYSTEM:

To decrease the complexity of conventional individual-centric recommender systems, we propose a group-centric approach. From the highdimensional data available in a CPSS, groups are discovered based on the similarity of user behavior. We propose a quantitative method of assessing emotional offset, which is based on sentiment analysis, to revise user ratings to improve the objectivity of context data. We propose a comprehensive approach based on three aspects, i.e. ratings, interests and social relationships, to discover the preferences of groups of users.

ADVANTAGE OF PROPOSED SYSTEM:

- Group Discovery Based on Behavioral Similarity:
- Rating Revision Based on Emotional Offset
- Multidimensional Group Preference Modelling

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SYSTEM SPECIFICATION

HARDWARE REQUIREMENTS

- Processor - Pentium –III
- Speed - 1.1 Ghz
- RAM - 256 MB(min)
- Hard Disk - 20 GB
- Floppy Drive - 1.44 MB
- Key Board - Standard Windows Keyboard
- Mouse - Two or Three Button Mouse
- Monitor - SVGA

SOFTWARE REQUIREMENTS

- Operating System : Windows 8
- Front End : Java
- Database : Mysql

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