URN etd-0407109-183708-584
Author Jian-guo Lin
Author's Email Address No Public.
Statistics This thesis had been viewed 47 times. Download 18 times.
Department
Year 2006
Semester 1
Degree Master
Type of Document Master's Thesis
Language zh-TW.Big5 Chinese
Title Recommender System for Nutrient Meals in Early Childhood
Date of Defense 0000-00-00
Page Count 92

Keyword
child
meal design
recommeder system
disease diet

Abstract
In the childhood, nutreint condition is associated with the growth, development and health of children. Especially, from birth to four years old, nutrition is very important for the development of brain and nerve. Since the physical development of children is not complete, their nutrient demand is differnet from adults. Therefore, it is necessary to carefully consider in the nutrient supply and meal design. The purpose of this study was to establish a recommender system for nutrient meals of early childhood. This system provided the meal design function to assist parents and kindergarten teachers in designing nutrient meals.
The system included a customized meal design, group meal design, disease diet and database. A questionnaire was designed for surveying users' data, behavior, suggestion and satisfication. The recommender module for producing nutrient meals was produced by analyzing the questionnaire through statistical and data ming methods. The results show a significant discrimination for each item in the questionnaire. everal factors affecting user behaviors in selecting meals are apperance, nutrient, cost, cooking, vegetables, meat, sea foods. There are linear correlation between aregiver behaviors and child behaviors in meal selection. The reults of data mining show twenty-seven assciation rules for the recommender module. This system has provided a preliminary recommender module for meal design of early childhood. Some problems of cold start and a small sample size, which result in user discontent, must be solved for improving system.
Advisory Committee Chun-Ju Hou - advisor

Files etd-0407109-183708-584-001.pdf

indicate access worldwide
Date of Submission 2007-08-27