

• 系統編號	RG9513-4548		
• 計畫中文名稱	建置智慧型食品成分資料庫分析系統		
• 計畫英文名稱	Building a Smart Food Composition Analysis System		
• 主管機關	行政院衛生署	• 計畫編號	DOH94-TD-F-113-066-(2)
• 執行機構	台北醫學大學醫學資訊研究所		
• 本期期間	9407 ~ 9506		
• 報告頁數	43 頁	• 使用語言	中文
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• 中文關鍵字	知識本體；資料庫；知識管理；飲食紀錄；飲食建議；食品成分		
• 英文關鍵字	ontology；database；knowledge management；dietary record；Dietary Reference Intakes；food composition		
• 中文摘要	近年來國人對於日常生活保健日愈重視，飲食的管理是不可缺少的一環。本研究爲了提供國人更完善的善營養資訊，以知識本體爲設計基礎，並配合新穎的資訊技術，應用在料理知識本體與食材知識本體的架構下，發展食品營養諮詢系統。知識本體建置把料理分類爲 7 項類別與食材分爲 18 項類別，透過軟體把知識本體架構標準化成爲 XML 資料庫，再利用 ASP 與 MySQL 資料庫應用在網路服務上，提供使用者具有諮詢食品營養、計算攝取營養、提供飲食記錄的功能。		
• 英文摘要	Recent years, people in Taiwan have been paying much more attention to health management of everyday life. Dietary habits became an important topic in health management. Thus the correct and useful nutritional information is required. An innovative architecture combining information technology, ontology, and nutritional science was designed in this study. We developed a food and nutrition consultant system that includes dietary record sub-system, the food composition analysis sub-system, and the dietary recommendation sub-system. A ontological knowledge repository based on Taiwanese food and recipe was also created to serve as the reference platform for the main system. By referring to the ontological engineering methods, we built a food ontology with 18 classes and a 100-recipes ontology with 7 classes. Two ontologies were transferred into XML database that was used to develop the web service applications on ASP platform with MySQL database. In the system, the users can retrieve nutritional information and evaluate their dietary intakes according to the daily dietary records.		