

3936983 SCCS/M : MAJOR : COMPUTER SCIENCE ; M.Sc. (COMPUTER SCIENCE)

KEY WORDS : PLACEMENT CENTER / EMPLOYMENT SERVICE
NARONG SUKNIVATSIRI : ELECTRONIC PLACEMENT CENTER
SYSTEM. RESEARCH PROJECT ADVISORS: SUPACHAI TANGWONGSAN,
Ph.D., DAMRAS WONGSAWANG, Ph.D. 127 p. ISBN 974-661-757-5

This research work proposes a prototype for an employment service system via Internet, or so-called electronic placement center. At present, because of the highly competitive environment in the work force market, placement centers play an important role in providing employment services to employers and applicants, assisting in matching the right person with the right job.

In the process of matching in an employment service, if the number of jobs and applicants increase significantly, then the matching is not simple and may make computation very difficult. Therefore, in order to solve this problem, a scheme is proposed to reduce the matching search by a number of means. First, a job code is used as keyword for matching in order to improve the accuracy of job matches. Next, an index table for jobs or applicants is used and a matching search is then performed via the index table in order to reduce the number of matches. The last step is to introduce the matching criteria for job filtering and scoring process in order to produce matching results which satisfy to both parties: employers and applicants.

With the indexing approach to reduce the matching search space, a prototype for the electronic placement center was developed. Cold Fusion software tool was used as the Web database application, the Website Professional as a Web server, and the Microsoft Access as a database system. In the experiment, the prototype system performed quite satisfactorily in terms of accuracy of job matches. The number of matches was greatly reduced as expected.